RACADM Command Line Reference Guide for iDRAC6 1.95, iDRAC6 3.5, and CMC 3.2

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CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

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1

Introduction

This document provides information about the RACADM subcommands, supported RACADM interfaces, and property database groups and object definitions for the following:

- iDRAC6 Enterprise on Blade Servers
- iDRAC6 Enterprise or Express on Rack and Tower Servers
- Dell Chassis Management Controller (CMC)

Supported RACADM Interfaces

The RACADM command-line utility provides a scriptable interface that allows you to locally or remotely configure your Remote Access Controller (RAC). The utility runs on the management station and the managed system. It is available on the *Dell OpenManage Systems Management and Documentation* DVD or at **support.dell.com**.

The RACADM utility supports the following interfaces:

- Local — Supports executing RACADM commands from the managed server's operating system. You must install the OpenManage software on the managed server to run local racadm commands. Only one instance of local RACADM can be executed on a system at a time. If the user tries to open another instance, an error message is displayed and the second instance of local RACADM closes immediately.
- SSH or Telnet — Also referred as Firmware racadm. Supports executing RACADM commands from a SSH or Telnet session to iDRAC.
- Remote — Supports executing RACADM commands from a remote management station such as a laptop or desktop computer. You must install the OpenManage software on the remote computer to run remote RACADM commands. To execute remote RACADM commands, you must formulate the command like a local or SSH/Telnet RACADM command except that you must also use the –r –i options or the –r –u –p options. For more information on these options, see the "RACADM Subcommand Details" on page 33.

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RACADM Syntax Usage

The following section describes the syntax usage for local, SSH/Telnet, and Remote RACADM.

Local RACADM

```
racadm getconfig -g <groupname> [-o <objectname>] [-i
<indexnumber>]

racadm <subcommand>
```

Example

```
racadm getconfig -g idracinfo

racadm getsysinfo
```

SSH/Telnet RACADM

```
racadm getconfig -g <groupname> [-o <objectname>] [-i
<indexnumber>]

racadm <subcommand>
```

Example

```
racadm getconfig -g idracinfo

racadm getsysinfo
```

Remote RACADM

```
racadm -r -u -p getconfig -g <groupname> [-o
<objectname>] [-i <indexnumber>]

racadm -r -u -p <subcommand>
```

Example

```
racadm -r -u -p getconfig -g idracinfo

racadm -r -u -p getsysinfo
```


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RACADM Command Options

Table 1-1 lists the options for the RACADM command.

Table 1-1. RACADM Command Options

Option	Description
-r <*racIpAddr*>	Specifies the controller's remote IP address.
-r <*racIpAddr*>:<*port number*>	Use:<*port number*> if the iDRAC6 port number is not the default port (443)
-u <*usrName*>	Specifies the user name that is used to authenticate the command transaction. If the -u option is used, the -p option must be used, and the -i option (interactive) is not allowed.
-p <*password*>	Specifies the password used to authenticate the command transaction. If the -p option is used, the -i option is not allowed.
-S	Specifies that RACADM should check for invalid certificate errors. RACADM stops the execution of the command with an error message if it detects an invalid certificate.
-i <*indexnumber*>	Specifies the index number for the indexed group, if applicable.
-g <*groupname*>	Specifies the group name if applicable.
-o <*objectname*>	Specifies the object name if applicable.

Table 1-2 provides the supported RACADM interfaces for iDRAC6 Enterprise and iDRAC6 Express.

Table 1-2. Supported RACADM Interfaces

iDRAC Type	Local RACADM	SSH/Telnet RACADM	Remote RACADM
iDRAC6 Enterprise	✔	✔	✔
iDRAC6 Express	✔	✔	✘
CMC	✔	✔	✔

✔ = Supported; ✘ = Not supported

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NOTE: Multiple instances of remote racadm can be executed on a management station, while only one instance of local racadm can be executed on a managed node.

Supported RACADM Subcommands

Table 1-3 provides the list of RACADM subcommands and their corresponding interface support. For detailed information of the RACADM subcommands including syntax and valid entries, see "RACADM Subcommand Details" on page 33.

Table 1-3. RACADM Subcommands

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet /SSH/ Serial	Local RACADM	Remote RACADM	Telnet/ SSH/S erial	Local RACADM	Remote RACADM	Telnet /SSH/ Serial	Remote RACADM
"?" and "? <subcommand>"	✗	✗	✗	✗	✗	✗	✓	✓
arp	✓	✗	✓	✓	✗	✓	✓	✓
chassisaction	✗	✗	✗	✗	✗	✗	✓	✓
clearasrscreen	✓	✓	✓	✓	✓	✓	✗	✗
closessn	✓	✓	✓	✓	✓	✓	✓	✓
clrraclog	✓	✓	✓	✓	✓	✓	✓	✓
clrsel	✓	✓	✓	✓	✓	✓	✓	✓
cmcchangeover	✗	✗	✗	✗	✗	✗	✓	✓
config	✓	✓	✓	✓	✓	✓	✓	✓
connect	✗	✗	✗	✗	✗	✗	✓	✓
coredump	✓	✗	✓	✓	✗	✓	✗	✗
coredumpdelete	✓	✓	✓	✓	✓	✓	✗	✗

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Table 1-3. RACADM Subcommands *(continued)*

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet /SSH/ Serial	Local RACADM	Remote RACADM	Telnet/ SSH/S erial	Local RACADM	Remote RACADM	Telnet /SSH/ Serial	Remote RACADM
deploy	✗	✗	✗	✗	✗	✗	✓	✗
feature	✗	✗	✗	✗	✗	✗	✓	✓
featurecard	✗	✗	✗	✗	✗	✗	✓	✓
fwupdate	✓	✓	✓	✓	✓	✓	✓	✓
getassettag	✗	✗	✗	✗	✗	✗	✓	✓
getchassisname	✗	✗	✗	✗	✗	✗	✓	✓
getconfig	✓	✓	✓	✓	✓	✓	✓	✓
getdcinfo	✗	✗	✗	✗	✗	✗	✗	✓
getfanreqinfo	✗	✗	✗	✗	✗	✗	✓	✓
getflexaddr	✗	✗	✗	✗	✗	✗	✓	✓
getioinfo	✗	✗	✗	✗	✗	✗	✓	✓
getkvminfo	✗	✗	✗	✗	✗	✗	✓	✓
getled	✗	✗	✗	✗	✗	✗	✓	✓
getmacaddress	✗	✗	✗	✗	✗	✗	✓	✓
getmodinfo	✗	✗	✗	✗	✗	✗	✓	✓
getniccfg	✓	✓	✓	✓	✓	✓	✓	✓
getpbinfo	✗	✗	✗	✗	✗	✗	✓	✓
getpminfo	✗	✗	✗	✗	✗	✗	✓	✓
getraclog	✓	✓	✓	✓	✓	✓	✓	✓

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Table 1-3. RACADM Subcommands *(continued)*

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet /SSH/ Serial	Local RACADM	Remote RACADM	Telnet/ SSH/S erial	Local RACADM	Remote RACADM	Telnet /SSH/ Serial	Remote RACADM
getractime	✓	✓	✓	✓	✓	✓	✓	✓
getredundancymode	✗	✗	✗	✗	✗	✗	✓	✓
getsel	✓	✓	✓	✓	✓	✓	✓	✓
getsensorinfo	✗	✗	✗	✗	✗	✗	✓	✓
getslotname	✗	✗	✗	✗	✗	✗	✓	✓
getssninfo	✓	✓	✓	✓	✓	✓	✓	✓
getsvctag	✓	✓	✓	✓	✓	✓	✓	✓
getsysinfo	✓	✓	✓	✓	✓	✓	✓	✓
gettracelog	✓	✓	✓	✓	✓	✓	✓	✓
getversion	✗	✗	✗	✗	✗	✗	✓	✓
getuscversion	✗	✗	✗	✓	✓	✓	✗	✗
"help" and "help <subcommand>"	✓	✓	✓	✓	✓	✓	✓	✓
ifconfig	✓	✗	✓	✓	✗	✓	✓	✓
krbkeytabupload	✓	✓	✓	✓	✓	✓	✓	✓
kmcSelfSignedCertGen	✓	✓	✓	✓	✓	✓	✗	✗
localConRedirDisable	✓	✓	✓	✓	✓	✓	✗	✗
netstat	✓	✗	✓	✓	✗	✓	✓	✓
ping	✓	✗	✓	✓	✗	✓	✓	✓
ping6	✓	✗	✓	✓	✗	✓	✓	✓

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Table 1-3. RACADM Subcommands *(continued)*

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet /SSH/ Serial	Local RACADM	Remote RACADM	Telnet/ SSH/S erial	Local RACADM	Remote RACADM	Telnet /SSH/ Serial	Remote RACADM
racdump	✓	✗	✓	✓	✗	✓	✓	✓
racreset	✓	✓	✓	✓	✓	✓	✓	✓
racresetcfg	✓	✓	✓	✓	✓	✓	✓	✓
remoteimage	✓	✓	✓	✓	✓	✓	✓	✓
serveraction	✓	✓	✓	✓	✓	✓	✓	✓
setassettag	✗	✗	✗	✗	✗	✗	✓	✓
setchassisname	✗	✗	✗	✗	✗	✗	✓	✓
setflexaddr	✗	✗	✗	✗	✗	✗	✓	✓
setled	✗	✗	✗	✓	✓	✓	✓	✓
setniccfg	✓	✓	✓	✓	✓	✓	✓	✓
setractime	✗	✗	✗	✗	✗	✗	✓	✓
setslotname	✗	✗	✗	✗	✗	✗	✓	✓
setsysinfo	✗	✗	✗	✗	✗	✗	✓	✓
sshpkauth	✓	✓	✓	✓	✓	✓	✓	✓
sslcertdownload	✗	✓	✓	✗	✓	✓	✗	✓
sslcertupload	✗	✓	✓	✗	✓	✓	✗	✓
sslcertview	✓	✓	✓	✓	✓	✓	✓	✓
sslkeyupload	✓	✓	✓	✓	✓	✓	✓	✓
sslkeyupload	✗	✓	✓	✗	✓	✓	✗	✗

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Table 1-3. RACADM Subcommands *(continued)*

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet /SSH/ Serial	Local RACADM	Remote RACADM	Telnet/ SSH/S erial	Local RACADM	Remote RACADM	Telnet /SSH/ Serial	Remote RACADM
sslresetcfg	✓	✓	✓	✓	✓	✓	✓	✓
testemail	✓	✓	✓	✓	✓	✓	✓	✓
testfeature	✗	✗	✗	✗	✓	✓	✓	✓
testtrap	✓	✓	✓	✓	✓	✓	✓	✓
testfeature	✓	✓	✓	✓	✓	✓	✗	✗
traceroute	✓	✗	✓	✗	✗	✗	✓	✓
traceroute6	✓	✗	✓	✗	✗	✗	✓	✓
usercertupload	✗	✗	✗	✗	✓	✓	✗	✗
usercertview	✗	✗	✗	✓	✓	✓	✗	✗
version	✗	✓	✓	✗	✓	✓	✗	✓
vflashsd	✓	✓	✓	✓	✓	✓	✗	✗
vflashpartition	✓	✓	✓	✓	✓	✓	✗	✗
vmdisconnect	✓	✓	✓	✓	✓	✓	✗	✗

Other Documents You May Need

In addition to this guide, you can access the following guides available on the Dell Support website at **dell.com/support/manuals**. Select **Choose from a list of all Dell products** and click **Continue**. Click **Software, Monitors, Electronics & Peripherals→ Software**:

- Click **Remote Enterprise System Management** to view the documents for iDRAC, Lifecycle Controller, Chassis Management Controller, and Baseboard Management Controller Management Utilities:

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  - The *Integrated Dell Remote Access Controller 6 (iDRAC6) Enterprise for Blade Servers User Guide* provides information about configuring and using an iDRAC6 for blade servers to remotely manage and monitor your system and its shared resources through a network.
  - The *Integrated Dell Remote Access Controller 6 (iDRAC6) User Guide* provides complete information about configuring and using an iDRAC6 for rack and tower servers to remotely manage and monitor your system and its shared resources through a network.
  - The CMC online Help provides information about using the CMC Web interface.
  - The *Chassis Management Controller (CMC) Secure Digital (SD) Card Technical Specification* provides minimum BIOS and firmware version, installation and usage information.
- Click **Enterprise System Management** to view documents for OpenManage Server Administrator and Dell Update Package.
  - The *Dell OpenManage IT Assistant User's Guide* provides information about IT Assistant.
  - The *Dell OpenManage Server Administrator's User's Guide* provides information about installing and using Dell OpenManage Server Administrator.
  - The *Dell Update Packages User's Guide* provides information about obtaining and using Dell Update Packages as part of your system update strategy.
- The *Glossary* provides information about the terms used in this document.

The following system documents are also available to provide more information about the system in which CMC is installed:

- The *Rack Installation Guide* and *Rack Installation Instructions* included with your rack solution describe how to install your system into a rack.
- The *Hardware Owner's Manual* provides information about system features and describes how to troubleshoot the system and install or replace system components.
- Documentation specific to your third-party management console application.

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- Documentation for any components you purchased separately provides information to configure and install these options.
- Release notes or readme files may be included to provide last-minute updates to the system or documentation or advanced technical reference material intended for experienced users or technicians.
- For more information on IOM network settings, see the *Dell PowerConnect M6220 Switch Important Information* document and the *Dell PowerConnect 6220 Series Port Aggregator* White Paper.

Updates are sometimes included with the system to describe changes to the system, software, and/or documentation. Always read the updates first because they often supersede information in other documents.

See the Safety and Regulatory information that is shipped with your system.

NOTE: Warranty information may be included within this document or as a separate document.

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2

RACADM Subcommand Details

This section provides detailed descriptions of the RACADM subcommands including the syntax and valid entries.

Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands

When using strings that contain special characters, use the following guidelines:

Strings containing the following special characters must be quoted using single quotes or double quotes:

- $ (dollar sign)
- " (double quote)
- ' (single quote)
- ` (back quote)
- \ (backslash)
- ~ (tilde)
- ; (semicolon)
- | (vertical bar)
- ((left parentheses)
-) (right parentheses)
- & (ampersand)
- > (greater than)
- < (less than)
- # (pound)
- ASCII code 32 (space)

NOTE: The - (dash) character cannot be the first character of the string, regardless of whether the string is quoted.

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There are different escaping rules for single quoting versus double quoting.

For double quoting:

The following characters must be escaped by prepending a backslash:

- $ (dollar sign)
- " (double quote)
- ' (single quote)
- ` (back quote)
- \ (backslash)

For example, use the following for a string that contains the special characters, $, ",',` and \

For single quoting:

- No character escaping is necessary.
- A single quote cannot be used even with a backslash escaped.

NOTE: An empty string may be specified as either "" (using double quotes) or '' (using single quotes).

"?" and "? <subcommand>"

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
?	Displays all the subcommands you can use with the racadm command and a one-line description of each subcommand.
? <*subcommand*>	Displays the syntax for the specified command.

NOTE: You can also use the **help** and **help** <*subcommand*> commands to obtain the same information.

Synopsis

```
racadm ?
racadm ? <subcommand>
```


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Example for racadm ?

NOTE: The following output example shows only part of the actual output for the **racadm ?** command. Descriptions shown in this example may vary slightly from the descriptions in your racadm session.

```
racadm ?

help            -- list racadm subcommand description
help <subcommand> -- display usage summary for a
subcommand
?               -- list racadm subcommand description
? <subcommand>  -- display usage summary for a
subcommand
arp             -- display the networking arp table
chassisaction   -- execute chassis or switch power-
up/down/cycle or KVM powercycle
clrraclog       -- clear the CMC log
clrsel          -- clear the System Event Log (SEL)
cmcchangeover   -- Changes the redundant state of the
CMC from active to standby and vice versa
config          -- modify CMC configuration properties
...
setniccfg       -- modify network configuration
properties
setractime      -- set the time on the CMC
setslotname     -- sets the name of the slot in the
chassis
setsysinfo      -- set the chassis name and chassis
location
sslcertview     -- display a CA/server certificate in
the CMC
testemail       -- test CMC e-mail notifications
testfeature     -- test CMC feature x
testtrap        -- test CMC SNMP trap notifications
traceroute      -- determine the route of a packet
traceroute6     -- determine the route of a packet
```

Example for racadm ? <subcommand>

```
racadm ? getsysinfo
```


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```
getsysinfo -- display general CMC and system
information
Usage:
racadm getsysinfo [-d] [-c] [-A] [-4] [-6]
------------------------------------------------------
------
Valid Options:
-d : show CMC information
-c : show chassis information
-A : do not show headers or labels
-4 : show CMC IPv4 information
-6 : show CMC IPv6 information
```

"help" and "help <subcommand>"

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
help	Lists all the subcommands available to use with RACADM and provides a short description for each. You may also type a subcommand after help to get the syntax for a specific subcommand.

Synopsis

```
racadm help
racadm help <subcommand>
```

Output

The **racadm help** command displays a complete list of subcommands.

The **racadm help** <*subcommand*> command displays information for the specified subcommand only.

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arp

NOTE: To use this subcommand, you must have **Administrator** and **Execute Diagnostic Commands** permission.

Subcommand	Description
arp	Displays the contents of the Address Resolution Protocol (ARP) table. ARP table entries cannot be added or deleted.

Synopsis

```
racadm arp
```

Example

For rack and tower servers:

```
/admin1-> racadm arp

Address       HWtype   HWaddress           Flags  Mask  Iface
10.94.161.1   ether    00:0F:F7:2C:1C:C4   2            eth0
```

For blade servers:

```
$ racadm arp

Address       HWtype  Flags  HWaddress           Mask  Device
10.94.161.1   0x1     0x2    00:0F:F7:2C:1C:C4   *     eth0
```

chassisaction

IP Address	HW Type	Flags	HW Address	Mask	Device
192.168.1.1	0x1	0x2	00:00:0C:07:AC:0F	*	eth0

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NOTE: To use this subcommand, you must have **Chassis Control Administrator** privilege.

Subcommand	Description
chassisaction	Executes a power action on the chassis, iKVM, or a server.

Synopsis

```
racadm chassisaction [-m <module>] <action>
```

Table 2-1 describes the chassasaction subcommand options

Table 2-1. chassisaction Subcommand Options

Option	Description
`-m` <*module*>	Module on which you want to carry out the action. Values are: • `chassis` - this is the default value if `-m` is not specified. • `switch-`*n* where *n*=1–6 • `kvm`
<*action*>	Action that you want to execute on the specified module. Values are: • `powerdown` — (Chassis only) Powers down the chassis. • `powerup` — (Chassis only) Powers up the chassis. • `powercycle` — Power cycles the module. • `nongraceshutdown` — (Chassis only) Shuts down the chassis non-gracefully. • `reset` — Performs a hard reset of the module.
NOTE: When <*module*> = kvm or switch, <*action*> must be powercycle or reset.	

Example

- Perform a reset of switch-3.

```
racadm chassisaction -m switch-3 reset

Module power operation successful.
```


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clearasrscreen

NOTE: To use this subcommand, you must have **Clear Logs** permission.

Subcommand	Description
clearasrscreen	Clears the last crash (ASR) screen that is in memory. See *Configuring the Managed Server to Capture the Last Crash Screen* and *Disabling the Windows Automatic Reboot Option* sections in the *iDRAC6 Enterprise for Blade Servers User Guide*.

Synopsis

```
racadm clearasrscreen
```

closessn

NOTE: To use this subcommand, you must have **Administrator** permission.

Subcommand	Description
closessn	Closes a communication session on the device. Use **getssninfo** to view a list of sessions that can be closed using this command.

Synopsis

```
racadm closessn –i <session id>

racadm closessn -a

racadm closessn -u <username>
```


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Table 2-2 describes the **closessn** subcommand options.

Table 2-2. closessn Subcommand Options and Descriptions

Option	Description
-i<session id>	The session ID of the session to close, which can be retrieved using racadm **getssninfo** subcommand. **NOTE:** Session executing this command cannot be closed.
-a	Closes all sessions.
-u <user name>	Close all sessions for a particular user name. **NOTE: -u** option can be used in local RACADM only if the username contains upto 16 characters. If the user name contains more than 16 characters, use one of the following options to close a session: Local RACADM: **-i** option Remote RACADM: **-u** option or **-i** option

Examples:

- `racadm closessn -i 1234`

  Closes the session 1234.

- `racadm closessn –u root`

  Closes all the sessions for root user.

- `racadm closessn –a`

  Closes all the sessions.

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clrraclog

NOTE: To use this subcommand, you must have **Clear Logs** permission. .

Subcommand	Description
clrraclog	Removes all existing records from iDRAC6 log. A new single record is created to record the date and time when the log was cleared.

Synopsis

```
racadm clrraclog
```

clrsel

NOTE: To use this subcommand, you must have **Clear Logs** permission.

Subcommand	Description
clrsel	Removes all existing records from the System Event Log (SEL).

Synopsis

```
racadm clrsel
```


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cmcchangeover

NOTE: To use this subcommand, you must have **Administrator** privilege.

Subcommand	Description
cmcchangeover	Changes the state of the CMC from active to standby, or vice versa, in a redundant CMC configuration. This subcommand is useful for remote debugging or testing purposes.

NOTE: This command is valid only in redundant CMC environments. For more information, see the "**Understanding the Redundant CMC Environment**" section of the *Dell Chassis Management Controller User Guide*.

Synopsis

```
racadm cmcchangeover
```

Output

```
CMC failover initiated successfully.
```

config

NOTE: To use this subcommand, you must have **Log In iDRAC** permission.

Subcommand	Description
config	This subcommand allows you to set iDRAC6 configuration parameters individually or to batch them as part of a configuration file. If the data is different, that iDRAC6 object is written with the new value.

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Synopsis

```
racadm config [-c|-p] -f <filename>

racadm config -g <groupName> -o <objectName> [-i
<index>] <Value>
```

NOTE: The configuration file retrieved using remote racadm and local racadm are not interoperable. The configuration file retrieved using remote racadm shows the index property for some of the indexed groups as read-write, for example cfgSSADRoleGroupIndex. For the `config -f <file name>` command, use the configuration file retrieved from the same interface. For example, for local racadm `config -f <file name>`, use the file generated from the local racadm command `getconfig -f <file name>`.

Input

Table 2-3 describes the **config** subcommand options.

NOTE: The **-f** and **-p** options are not supported for the serial/Telnet/ssh console.

Table 2-3. config Subcommand Options and Descriptions

Option	Description
-f	The **-f** <*filename*> option causes **config** to read the contents of the file specified by <*filename*> and configure iDRAC6. The file must contain data in the format specified in the section *Parsing Rules* in the *iDRAC6 User's Guide* available on the Dell Support website at **dell.com/support/manuals**.
-p	The **-p**, or password option, directs **config** to delete the password entries contained in the config file **-f** <*filename*> after the configuration is complete.
-g	The **-g** <*groupName*>, or group option, must be used with the **-o** option. The <*groupName*> specifies the group containing the object that is to be set.
-o	The **-o** <*objectName*> <*Value*>, or object option, must be used with the **-g** option. This option specifies the object name that is written with the string <*value*>.

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Table 2-3. config Subcommand Options and Descriptions *(continued)*

Option	Description
-i	The -i <*index*>, or **index** option, is valid only for indexed groups and can be used to specify a unique group. The <*index*> is a decimal integer from 1 through n, where n can vary from 1 to maximum number of indexes a particular group supports. If **-i** <*index*> is not specified, a value of 1 is assumed for groups, which are tables that have multiple entries. The index is specified by the index value, not a *named* value.
-c	The **-c**, or **check** option, is used with the **config** subcommand and allows the user to parse the **.cfg** file to locate syntax errors. If errors are found, the line number and a short description of what is incorrect are displayed. Writes do not occur to iDRAC6. This option is a check only.

Output

This subcommand generates error output for any of the following reasons:

- Invalid syntax, group name, object name, index, or other invalid database members
- RACADM CLI failures

This subcommand returns an indication of the number of configuration objects that were written out of the total objects in the **.cfg** file.

Examples

- `racadm config -g cfgLanNetworking -o cfgNicIpAddress 10.35.10.100`

  Sets the **cfgNicIpAddress** configuration parameter (object) to the value 10.35.10.110. This IP address object is contained in the group **cfgLanNetworking**.

- `racadm config -f myrac.cfg`

  Configures or reconfigures iDRAC6. The **myrac.cfg** file may be created from the **getconfig** command. The **myrac.cfg** file may also be edited manually as long as the parsing rules are followed.

  NOTE: The **myrac.cfg** file does not contain passwords. To include passwords in the file, you must enter them manually. If you want to remove password information from the **myrac.cfg** file during configuration, use the **-p** option.

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connect

Subcommand	Description
connect	Connects to the switch or server serial console.

NOTE: You cannot use this subcommand with remote RACADM.

Synopsis

- `racadm connect [-b] <server-n>`
- `racadm connect [-b] <switch-n>`

Table 2-4 describes the **connect** subcommand options.

Table 2-4. connect Subcommand Options

Option	Description
-b	Connects to the switch or console using the binary mode. This is an optional argument; a server or a switch must be present.
`server-`*n* or `switch-`*n*	Server or switch to connect to. • `server-`*n* where *n*=1–16 • `switch-`*n* where *n*=<a1 | a2 | b1 | b2 | c1 | c2>

NOTE: If you use the **-b** option, reset the CMC to terminate the **connect** operation.

NOTE: See the *Dell Chassis Management Controller User Guide* for examples on using the **connect** subcommand.

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coredump

NOTE: This option is applicable only for iDRAC6.

NOTE: To use this subcommand, you must have **Execute Debug Commands** permission.

Subcommand	Description
coredump	Displays detailed information related to any recent critical issues that have occurred with the RAC. The coredump information can be used to diagnose these critical issues. If available, the coredump information is persistent across iDRAC6 power cycles and remains available until either of the following conditions occur: • The coredump information is cleared with the coredumpdelete subcommand. • Another critical condition occurs on the RAC. In this case, the coredump information is relative to the last critical error that occurred. See the **coredumpdelete** subcommand for more information about clearing the coredump.

Synopsis

```
racadm coredump
```


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coredumpdelete

NOTE: This option is applicable only for iDRAC6.

NOTE: To use this subcommand, you must have **Clear Logs** or **Execute Debug Commands** permission.

Subcommand	Description
coredump	Clears any currently resident coredump data stored in the RAC.

NOTE: If a **coredumpdelete** command is issued and a coredump is not currently stored in the RAC, the command displays a success message. This behavior is expected.

See the **coredump** subcommand for more information on viewing a coredump.

Synopsis

```
racadm coredumpdelete
```

deploy

NOTE: To use this subcommand, you must have **Server Administrator** privilege.

Subcommand	Description
deploy	Configures the static IP address, subnet mask, gateway, and password for the root user on iDRAC for the specified server.

NOTE: You can also use **setniccfg** to configure static IP address, subnet mask, and gateway, as well as DHCP, speed, and duplex properties.

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Synopsis

- `racadm deploy -m <module> -u root -p <password> -s <ipaddress> <subnet> <gateway> -b <device> -o <no|yes>`
- `racadm deploy -m <module> -u root -p <password> -s -6 <ipv6Address> <prefixlen> <gateway> -b <device> -o <no|yes>`

  NOTE: <*prefixlen*> must be a number between 0 and 128.
- `racadm deploy -m <module> -u root -p <password> -d [-6]`
- `racadm deploy -a -u root -p <password>`

Table 2-5 describes the **deploy** subcommand options.

Table 2-5. deploy Subcommand Options

Option	Description
-b <*device*>	Specifies the first boot device; must be used with `-o`. Use with `-m` <*module*> to specify for a individual server, or with `-a` for all servers **Legal values:** *device*=None, PXE, HDD, CD-DVD, vFDD, vCD-DVD, iSCSI, SD, FDD
-o <*no*|*yes*>	Indicates if the server should boot from the device once; must be used with `-o`. Use with `-m` <*module*> to specify for a individual server, or with `-a` for all servers
-a	Creates and enables an iDRAC root user if it does not already exist, and is executed on all the existing servers in the chassis
-u root	Indicates that the <*password*> is supplied for the root user on the server. `root` is a constant parameter, the only value that is valid with the -u option.
-m <*module*>	Specifies the server you want to configure. **Legal values:** `server-`*n*, where *n*=1–16
-p <*password*>	Specifies the password for the root user on the server.

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Table 2-5. deploy Subcommand Options *(continued)*

Option	Description
-s <*ipaddress subnet gateway*>	Sets the IP address, subnet mask, and gateway for the specified server, separated by single spaces. • **ipaddress** — A string representing a valid IP address. For example, 192.168.0.20. • **subnet** — A string representing a valid subnet mask. For example, 255.255.255.0. • **gateway** — A string representing a valid gateway address. For example, 192.168.0.1.
-d	Enables DHCP for the specified server. **NOTE:** The **-s** and **-d** options cannot be used together in the same command.
-6	Enables IPv6 auto configuration (when used with `-d`) Sets static IPv6 addresses (when used with `-s`)

Example

- `racadm deploy -m server-8 -s 192.168.0.20 255.255.255.0 192.168.0.1`

  `The server was deployed successfully.`

NOTE: The **deploy** command generates an error when used on the extension slot of a multi-slot server.

- `racadm deploy -m server-9 192.168.0.11 255.255.255.0 192.168.0.1`

  `ERROR: Server in slot 9 is an extension of the server in slot 1.`

- `racadm deploy -m server-7 -u root -p calvin -s -6 ::/64 :: 10`

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feature

NOTE: To use this subcommand to deactivate FlexAddress, you must have **Chassis Configuration Administrator** privilege. A user with login privileges can view status only.

Subcommand	Description
feature	Displays all active chassis features. The information displayed includes feature name, date activated, and the serial number of the SD card used to activate the feature. Dell Feature Cards may contain more than one feature. After any feature included on a Dell Feature Card is activated on a chassis, any other features that may be included on that Dell Feature Card cannot be activated on a different chassis.

NOTE: To deactivate FlexAddress features, the chassis must be powered off.

Synopsis

```
racadm feature -s
racadm feature -d -c <featurename>
racadm feature -a -c ExtendedStorage
racadm feature -1 -c ExtendedStorage
racadm feature -2 -c ExtendedStorage
racadm feature -r -c ExtendedStorage
```

Table 2-6. feature Subcommand Options

Option	Description
-s	Displays the status of active features.
-d	Deactivates feature specified in -c option.
-a	Activates ExtendedStorage feature.
-1	Configures ExtendedStorage feature for standalone use.
-2	Configures ExtendedStorage feature for redundant use.

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Table 2-6. feature Subcommand Options *(continued)*

Option	Description
-r	Reformats damaged/unformatted ExtendedStorage media. **CAUTION: Using the -r switch deactivates the ExtendedStorage feature, if active; reformats the SD media in the active CMC cardslot; and may reboot the active CMC.**
-c	<featurename> must be one of the following: • flexaddress (with -d) • flexaddressplus (with -d) • ExtendedStorage (with -a,-d,-1,-2, or -r)

Example

- `racadm feature -d -c flexaddress`

  `The feature FlexAddress is deactivated on the chassis successfully`

- `racadm feature -s`

  `Feature Name = FlexAddress`

  `Date/time Activated = 26 Apr 2010 - 10:16:48`

  `Feature installed from SD-card serial number = TEST01234567890123456789`

  `Feature Name = FlexAddressPlus`

  `Date/time Activated = 26 Apr 2010 - 10:16:48`

  `Feature installed from SD-card serial number = TEST01234567890123456789`

  `Feature name = ExtendedStorage (for redundant use)`

  `Date/time Activated = 06 May 2010 - 07:42:20`

  `Feature installed from SD-card serial number = TEST01234567890123456789`

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featurecard

NOTE: To use this subcommand, you must have **Chassis Configuration Administrator** privilege.

Subcommand	Description
featurecard	Verifies proper SD card installation and displays the SD card status.

Table 2-7 lists the status messages returned by the command.

Table 2-7. Status Messages Returned by featurecard -s Command

Status Message	Actions
No feature card inserted.	Check the CMC to verify that the SD card was properly inserted. In a redundant CMC configuration, make sure the CMC with the SD feature card installed is the active CMC and not the standby CMC.
The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is bound to this chassis	No action required.
No features active on the chassis	Install the SD card into the CMC.
The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is bound to another chassis, svctag = ABC1234, SD card SN = 01122334455	Remove the SD card; locate and install the SD card for the current chassis.
The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is not bound to any chassis	The feature card can be moved to another chassis, or can be reactivated on the current chassis. To reactivate on the current chassis, enter `racadm racreset` until the CMC module with the feature card installed becomes active.

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Synopsis

```
racadm featurecard -s
```

Table 2-8 describes the **featurecard** subcommand option.

Table 2-8. featurecard Subcommand Options

Option	Description
`-s`	Lists active SD card features and SD card status.

Example

```
$ racadm featurecard -s

The feature card inserted is valid, serial number
TEST01234567890123456789

The feature card contains the following feature(s):

    FlexAddress: The feature is bound to this chassis

    FlexAddressPlus: The feature is bound to this
    chassis

    ExtendedStorage: The feature is bound to this
    chassis
```


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fwupdate

NOTE: To use this subcommand for CMC you must have **Chassis Configuration Administrator** privilege and for iDRAC you must have **Configure iDRAC6** permission.

Subcommand	Description
fwupdate	Allows you to update the firmware on the iKVM, active CMC, standby CMC, server iDRACs, or an IOM infrastructure device. You can: • Check the firmware update process status. • Update iDRAC6 or CMC firmware from a TFTP server by providing an IP address and optional path. • Update iDRAC6 or CMC firmware from the local file system using local RACADM. • Rollback to the standby firmware.

Table 2-9 describes the **fwupdate** subcommand options.

Table 2-9. fwupdate Subcommand Options

Option	Description
-s	Lists active SD card features and SD card status.

NOTE: This subcommand performs updates to the iDRAC firmware (if CMC firmware version is 2.0 or later and iDRAC firmware version is 1.4) when the existing firmware is corrupted. There can only be a single update operation in progress at any time. In addition, the fwupdate subcommand may only update one or more devices of a single kind at a time.

Before you begin your firmware update, see the *Advanced iDRAC6 Configuration* section in the *iDRAC6 User's Guide* available on the Dell Support website at **dell.com/support/manuals.**

NOTE: Running the **fwupdate** subcommand to update the firmware on the active CMC resets itself causing all network connections to be dropped. During update of all other modules, including the standby CMC, the active CMC continues to run normally without resetting.

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Table 2-10 describes the firmware update method supported for each interface.

Table 2-10. Firmware Update Matrix

FW Update Method	Monolithic	Modular	CMC
Local RACADM	✓	✓	✗
Local RACADM - TFTP	✓	✓	✗
Remote RACADM	✓	✓	✓
Remote RACADM-TFTP	✓	✓	✓
Remote RACADM-FTP	✗	✗	✗
Firmware RACADM-TFTP	✓	✓	✓
Firmware RACADM-FTP	✗	✗	✓

Synopsis for iDRAC6

```
racadm fwupdate -s

racadm fwupdate -g -u -a <TFTP_Server_IP_Address> [-d <path>]

racadm fwupdate -r

racadm fwupdate -p -u [-d <path>]
```

Synopsis for CMC

For local RACADM:

```
racadm fwupdate -g -u -a <tftp server ip address or FQDN> -d <path> [-m <module>]

racadm fwupdate -f <ftp server ip address or FQDN> <username> <password> -d <path> [-m <module>]

racadm fwupdate -u -m iominf-<n>

racadm fwupdate -s [-m <module>]

racadm fwupdate -c [-m <module>]
```


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For remote RACADM:

```
racadm fwupdate -p -u -d <firmware image>
```

NOTE: When using FTP, if you provide the full path to the image file on the CLI, then the CMC uses that path to locate that file on the host. If you do not provide a full path, then the CMC searches the home directory of the specified user for the file if the host system is running Linux or another variant of UNIX. If the host system is running Windows, then a default folder, such as **C:\ftproot** is searched.

NOTE: When attempting to run firmware update task using "racadm fwupdate" command, if the firmware image path length is greater than 64 characters, remote RACADM client exits with the error message "ERROR: Specified path is too long".

Input

Table 2-11 describes the **fwupdate** subcommand options.

NOTE: The **-p** option is supported on local and remote RACADM and is not supported with the serial/Telnet/ssh console. The **-p** option is also not supported on Linux operating systems.

Table 2-11 describes the **fwupdate** subcommand options.

Table 2-11. fwupdate Subcommand Options

Option	Description
-u	For iDRAC: The **update** option performs a checksum of the firmware update file and starts the actual update process. This option may be used along with the **-g** or **-p** options. At the end of the update, iDRAC6 performs a soft reset. For CMC: Performs the firmware update operation.
-s	For iDRAC: The **status** option returns the current status of where you are in the update process. This option is always used by itself. For CMC: Displays the current status of the firmware update. **NOTE:** Use `-m` to display the status of the module update. Omit `-m` to display the status of the active CMC update. **NOTE:** The all value can only be used to obtain the status of all targets to be updated.

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Table 2-11. fwupdate Subcommand Options *(continued)*

Option	Description
-g	The **get** option instructs the firmware to get the firmware update file from the TFTP server. You must also specify the **-a**, **-u**, and **-d** options. In the absence of the **-a** option, the defaults are read from properties contained in the group **cfgRemoteHosts**, using properties **cfgRhostsFwUpdateIpAddr** and **cfgRhostsFwUpdatePath**. For CMC: Downloads the firmware update using the TFTP server.
-a	The **IP Address** option specifies the TFTP server IP address, used with **-g** option. For CMC: Specifies the TFTP server IP address or FQDN used for the firmware image (used with **-g**).
-d	For iDRAC: The **-d,** or **directory**, option specifies the directory on the TFTP server or on iDRAC6's host server where the firmware update file resides. For CMC: Specifies the source path where the firmware image resides. **Default:** Designated TFTP default directory on that host for the file if **-g** option is absent. If **-g** is used, defaults to directory configured on the TFTP server.
-p	For iDRAC: The **-p**, or **put**, option is used to update the firmware file from the managed system to iDRAC6. The **-u** option must be used with the **-p** option. **NOTE:** This option is not applicable for CMC.
-r	The **rollback** option is used to rollback to the standby firmware. **NOTE:** This option is not applicable for CMC.
-c	Cancels the current firmware update of a module. **NOTE:** This option is applicable only for CMC.

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Table 2-11. fwupdate Subcommand Options *(continued)*

Option	Description
`-m` <*module*>	**NOTE:** This option is applicable only for CMC. Specifies the module or device to be updated. <*module*> is one of the following values: • `cmc-active` (default) • `cmc-standby` • `kvm` • `server-`*n* where *n* = 1–16 • `server-generation` where generation = iDRAC or iDRAC6 • `iominf-`*n* where *n* = 1–6 **NOTE:** CMC version 3.00 accepts IPv4, IPv6, or fully qualified domain names (FQDN) for both FTP and TFTP servers. **NOTE:** You can specify the `cmc-active` and `cmc-standby` modules at the same time along with one or more `server-n` modules. This enables the devices to be updated together. **NOTE:** See "Updating the IOM Infrastructure Device Firmware" section of the "Using the CMC Web Interface" chapter of the *Dell Chassis Management Controller User Guide* for additional information on the IOM infrastructure device firmware update process. When you use the **`server-generation`** option, the CMC updates all iDRACs of that particular generation that can be updated. **NOTE:** Verify that the update applied to servers for a particular generation has been validated for all impacted server models.

Examples for CMC

- Upload the firmware image from the TFTP server and start the firmware update.

```
racadm fwupdate -g -u -a 192.168.0.100 -d
firmimg.cmc -m cmc-active

TFTP firmware update has been initiated. This
update process may take several minutes to
complete.
```


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- Upload the firmware image from the FTP server and start the firmware update.

  ```
  racadm fwupdate -f 192.168.0.100 fred password123
  -d firmimg.cmc -m cmc-active
  ```

- Start IOM infrastructure firmware update.

  ```
  racadm fwupdate -u -m iominf-1
  ```

- Update firmware on both the CMCs.

  ```
  racadm fwupdate -g -u -a 192.168.0.100 -d
  firmimg.cmc -m cmc-active -m cmc-standby
  ```

- Update firmware on multiple servers.

  ```
  racadm fwupdate -g -u -a 192.168.0.100 -d
  firmimg.imc -m server-1 -m server-2 -m server-3
  ```

- Update firmware on servers of iDRAC6 generation.

  ```
  racadm fwupdate -g -u -a 192.168.0.100 -d
  firmimg.imc -m server-idrac6
  ```

- Update firmware on multiple IOM infrastructures.

  ```
  racadm fwupdate -u -m iominf-4 -m iominf-5 -m
  iominf-6
  ```

- Query the current status of all firmware targets to be updated.

  ```
  racadm fwupdate -s -m all
  ```


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- Query the current status of the firmware update process for a particular module.

  ```
  racadm fwupdate -s -m <module>
  ```

- Cancel a firmware update in progress.

  ```
  racadm fwupdate -c
  ```

- Upload a firmware image from the client and start the firmware update.

  ```
  racadm fwupdate -p -u -d firmimg.cmc
  ```

NOTE: The **fwupdate** command generates an error when used on the extension slot of a multi-slot server.

NOTE: Image path length for Remote RACADM is 256 characters and for local RACADM, it is 64 characters.

Output

Displays a message indicating the operation that is being performed.

Examples

- `racadm fwupdate -g -u - a 143.166.154.143 -d <path>`

  In this example, the **-g** option tells the firmware to download the firmware update file from a location (specified by the **-d** option) on the TFTP server at a specific IP address (specified by the **-a** option). After the image file is downloaded from the TFTP server, the update process begins. When completed, iDRAC6 is reset.

- `racadm fwupdate -s`

  This option reads the current status of the firmware update.

NOTE: Firmware update from local racadm (using **-p -u -d** options) is not supported on linux OS.

NOTE: For CMC, these commands specifically apply to an active-CMC update.

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getassettag

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getassettag	Displays the asset tag for the chassis.

Synopsis

```
racadm getassettag [-m <module>]
```

Table 2-12 describes the **getassettag** subcommand options.

Table 2-12. getassettag Subcommand Options

Option	Description
-m <*module*>	Specifies the module whose asset tag you want to view. **Legal value:** `chassis`

Example

- `racadm getassettag -m chassis`

  or

  `racadm getassettag`

  `chassis 78373839–33`

getchassisname

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getchassisname	Displays the name of the chassis.

Synopsis

```
racadm getchassisname
```


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Example

- `racadm getchassisname`
  `PowerEdge 2955`

getconfig

Subcommand	Description
getconfig	Retrieves iDRAC6 configuration parameters individually, or all iDRAC6 configuration groups may be retrieved and saved to a file.

Synopsis

```
racadm getconfig -f <filename>

racadm getconfig -g <groupName> [-i <index>]

racadm getconfig -u <username>

racadm getconfig -h

racadm getconfig -g <groupName> -o <objectName> [-i
index]
```

Input

Table 2-13 describes the **getconfig** subcommand options.

Table 2-13. getconfig Subcommand Options

Option	Description
-f	The **-f** <*filename*> option directs getconfig to write the entire iDRAC6 configuration to a configuration file. This file can be used for batch configuration operations using the **config** subcommand.
-g	The **-g** <*groupName*>, or group option, can be used to display the configuration for a single group. The **groupName** is the name for the group used in the **racadm.cfg** files. If the group is an indexed group, use the **-i** option.
-h	The **-h**, or **help** option, displays a list of all available configuration groups in alphabetical order. This option is useful when you do not remember exact group names.

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Table 2-13. getconfig Subcommand Options

Option	Description
-i	The -i <*index*>, or **index** option, is valid only for indexed groups and can be used to specify a unique group. The <*index*> is a decimal integer from 1 through n, where n can vary from 1 to maximum number of indexes a particular group supports. If **-i** <*index*> is not specified, a value of 1 is assumed for groups, which are tables that have multiple entries. The index is specified by the index value, not a *named* value.
-o	The -o <*objectname*> or **object** option specifies the object name that is used in the query. This option is optional and can be used with the **-g** option.
-u	The -u <*username*>, or **user name** option, can be used to display the configuration for the specified user. The <*username*> option is the login name for the user.
-v	The **-v** option displays additional details with the display of the properties and is used with the **-g** option.

Output

This subcommand generates error output upon encountering either of the following:

- Invalid syntax, group name, object name, index, or other invalid database members
- RACADM CLI transport failures

If errors are not encountered, this subcommand displays the contents of the specified configuration.

Examples

- `racadm getconfig -g cfgLanNetworking`

  Displays all of the configuration properties (objects) that are contained in the group **cfgLanNetworking**.

- `racadm getconfig -f myrac.cfg`

  Saves all group configuration objects from iDRAC6 to **myrac.cfg**.

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- `racadm getconfig -h`

  Displays a list of the available configuration groups on iDRAC6 in an alphabetical order.

- `racadm getconfig -u root`

  Displays the configuration properties for the user named root.

- `racadm getconfig -g cfgUserAdmin -i 2 -v`

  Displays the user group instance at index 2 with verbose information for the property values.

getdcinfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getdcinfo	Displays general I/O module and daughter card configuration information.

NOTE: Fabric verification for server DCs is performed only when the chassis is powered on. When the chassis is on standby power, iDRACs on the server modules remain powered off and thus are unable to report the server's DC fabric type. The DC fabric type may not be reported in the CMC user interface until iDRAC on the server is powered on.

Synopsis

```
racadm getdcinfo
```

Table 2-14 describes the **getdcinfo** subcommand options.

Table 2-14. getdcinfo Subcommand Options

Option	Description
-n	Displays the model names for the daughter cards in servers.

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Example

The example output below is for a system with multi-slot servers.

```
racadm getdcinfo
Group A I/O Type : Gigabit Ethernet
Group B I/O Type : Gigabit Ethernet
Group C I/O Type : Gigabit Ethernet
```

<IO#>	<Type>	<State>	<Role>
switch-1	Gigabit Ethernet	OK	Master
switch-2	None	N/A	N/A
switch-3	Gigabit Ethernet	OK	Master
switch-4	None	N/A	N/A
switch-5	Gigabit Ethernet	OK	Member
switch-6	None	N/A	N/A

<Server#>	<Presence>	<DC1 Type>	<DC1 State>	<DC2 Type>	<DC2 State>
server-1	Present	None	N/A	None	N/A
server-2	Not Present	None	N/A	None	N/A
server-3	Not Present	None	N/A	None	N/A
server-4	Present	None	N/A	Gigabit Ethernet	OK
server-5	Not Present	None	N/A	None	N/A
server-6	Not Present	None	N/A	None	N/A
server-7	Not Present	None	N/A	None	N/A
server-8	Present	FibreChannel 4	Invalid	None	N/A
server-9	Extension(1)	None	N/A	None	N/A
server-10	Not Present	None	N/A	None	N/A
server-11	Not Present	None	N/A	None	N/A
server-12	Not Present	None	N/A	None	N/A
server-13	Not Present	None	N/A	None	N/A
server-14	Not Present	None	N/A	None	N/A
server-15	Not Present	None	N/A	None	N/A
server-16	Not Present	None	N/A	None	N/A

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```
getdcinfo -n
```

<Server#>	<Presence>	<DC1 Model Name>	<DC2 Model Name>
server-1	Present	None	None
server-2	Not Present	None	None
server-3	Not Present	None	None
server-4	Present	None	Broadcom M5708t
server-5	Not Present	None	None
server-6	Not Present	None	None
server-7	Not Present	None	None
server-8	Present	LPe1105-M4	None
server-9	Extension(1)	None	None
server-10	Not Present	None	None
server-11	Not Present	None	None
server-12	Not Present	None	None
server-13	Not Present	None	None
server-14	Not Present	None	None
server-15	Not Present	None	None
server-16	Not Present	None	None

getflexaddr

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getflexaddr	Displays enabled/disabled status for the entire chassis. If used with -i, the command displays MACs/WWN on a per slot basis.

NOTE: If FlexAddress is not activated on the chassis, the command displays server-assigned MAC/WWN addresses. If the slot is empty, the command leaves the server-assigned MAC/WWN addresses blank. If an external console controls the MAC/WWN addresses, the command displays an externally managed message.

Synopsis

```
racadm getflexaddr [-i <slotNum>]
```


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Table 2-15 describes the **getflexaddr** subcommand options.

Table 2-15. getflexaddr Subcommand Options

Option	Description
`-i <slotNum>`	Specifies the slot information to be displayed. <*slotNum*> can be from 1 to 16.

Example

- Display current flex address settings for all slots and fabrics

```
racadm getflexaddr
```

```
<Slot#> <Status>  <Server Presence>
1       Enabled   Present
2       Enabled   Present
3       Enabled   Not Present
4       Enabled   Not Present
5       Enabled   Present
6       Enabled   Not Present
7       Enabled   Not Present
8       Enabled   Not Present
9       Enabled   Not Present
10      Enabled   Extension(2)
11      Enabled   Not Present
12      Enabled   Not Present
13      Enabled   Extension(5)
14      Enabled   Not Present
15      Enabled   Not Present
16      Enabled   Not Present
```


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<Fabric>	<Type>	<Status>
A	Gigabit Ethernet	Enabled
B	None	Enabled
C	None	Enabled

```
idrac Management Controller Disabled
```

- Display the current flex address setting for slot 1.

```
racadm getflexaddr -i 1

Slot-1 server presence = Present

Slot-1 flexaddress enabled = 1
```

<Fabric>	<Type>	<Server-Assigned>	<Chassis-Assigned>
slot1-A1	Gigabit Ethernet	00:1C:23:CD:AC:D2 (active)	00:1E:C9:FF:E3:21
	iSCSI	00:1C:23:CD:AC:D3 (active)	00:1E:C9:FF:E3:22
slot1-A2	Gigabit Ethernet	00:1C:23:CD:AC:D4 (active)	00:1E:C9:FF:E3:23
	iSCSI	00:1C:23:CD:AC:D5 (active)	00:1E:C9:FF:E3:24
slot1-B1	Gigabit Ethernet	00:1D:09:71:B3:60	00:1E:C9:FF:E3:25(active)
	iSCSI	00:1D:09:71:B3:61	00:1E:C9:FF:E3:26(active)
slot1-B2	Gigabit Ethernet	00:1D:09:71:B3:62	00:1E:C9:FF:E3:27(active)
	iSCSI	00:1D:09:71:B3:63	00:1E:C9:FF:E3:28(active)
slot1-C1	Fiber Channel 4	10:00:00:00:C9:63 :51:0E	20:01:00:1E:C9:FF:E3:29(active)
slot1-C2	Fiber Channel 4	10:00:00:00:C9:63 :51:0D	20:02:00:1E:C9:FF:E3:29(active)

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getfanreqinfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getfanreqinfo	Displays fan request for Servers and Switches in percent (%).

Synopsis

```
racadm getfanreqinfo
```

Example

```
racadm getfanreqinfo
[Ambient Temperature Fan Request %]
38
[Server Module Fan Request Table]
```

<Slot#>	<Server Name>	<Blade Type>	<Power State>	<Presence>	<Fan Request%>
1	SLOT-01	PowerEdgeM600	ON	Present	33
2	SLOT-02	PowerEdgeM905	ON	Present	35
3	SLOT-03	PowerEdgeM710	ON	Present	44
4	SLOT-04	PowerEdgeM610	ON	Present	46
5	SLOT-05	PowerEdgeM610	ON	Present	46
6	SLOT-06	N/A	N/A	Not Present	N/A
7	SLOT-07	PowerEdgeM605	ON	Present	100
fwupdate					
8	SLOT-08	PowerEdgeM710	ON	Present	44
9	SLOT-09	N/A	N/A	Not Present	N/A
10	SLOT-10	N/A	Extension (2)	N/A	N/A
11	SLOT-11	N/A	Extension (3)	N/A	N/A

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12	SLOT-12	N/A	N/A	Not Present	N/A
13	SLOT-13	N/A	N/A	Not Present	N/A
14	SLOT-14	PowerEdgeM600	ON	Present	33
15	SLOT-15	N/A	N/A	Not Present	N/A
16	SLOT-16	N/A	Extension (8)	N/A	N/A

[Switch Module Fan Request Table]

<Slot#>	<Server Name>	<Blade Type>	<Power State>	<Presence>	<Fan Request%>
1	SLOT-01	PowerEdgeM600	ON	Present	33
2	SLOT-02	PowerEdgeM905	ON	Present	35
3	SLOT-03	PowerEdgeM710	ON	Present	44
4	SLOT-04	PowerEdgeM610	ON	Present	46
5	SLOT-05	PowerEdgeM610	ON	Present	46
6	SLOT-06	N/A	N/A	Not Present	N/A
7	SLOT-07	PowerEdgeM605	ON	Present	100
fwupdate					
8	SLOT-08	PowerEdgeM710	ON	Present	44
9	SLOT-09	N/A	N/A	Not Present	N/A
10	SLOT-10	N/A	Extension (2)	N/A	N/A
11	SLOT-11	N/A	Extension (3)	N/A	N/A
12	SLOT-12	N/A	N/A	Not Present	N/A
13	SLOT-13	N/A	N/A	Not Present	N/A
14	SLOT-14	PowerEdgeM600	ON	Present	33
15	SLOT-15	N/A	N/A	Not Present	N/A
16	SLOT-16	N/A	Extension (8)	N/A	N/A

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```
[Switch Module Fan Request Table]
```

<IO Name>	<Name>	<Type>	<Presence>	<Fan Request%>
Switch-1	Dell Ethernet Pass-Through	Gigabit Ethernet	Present	30
Switch-2	Dell PowerConnect M6220	Gigabit Ethernet	Present	30
Switch-3	N/A	None	Not Present	N/A
Switch-4	N/A	None	Not Present	N/A
Switch-5	N/A	None	Not Present	N/A
Switch-6	N/A	None	Not Present	N/A

getioinfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getioinfo	Displays general information about the I/O modules on the chassis.

NOTE: The fabric type may be any supported I/O fabric type, such as Ethernet, Fiber Channel, and Infiniband.

Synopsis

```
racadm getioinfo
```


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Example

```
racadm getioinfo
```

<IO>	<Name>	<Type>	<Presence>	<POST>	<Power>	<Role>
switch-1	Dell Ethernet Passthrough	Gigabit Ethernet	Present	OK	ON	Master
switch-2	N/A	None	Not Present	N/A	N/A	N/A
switch-3	Brocade 4424	Fibre Channel 4	Present	OK	ON	Master
switch-4	N/A	None	Not Present	N/A	N/A	N/A
switch-5	N/A	None	Not Present	N/A	N/A	N/A
switch-6	N/A	None	Not Present	N/A	N/A	N/A

getkvminfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getkvminfo	Displays iKVM module information.

Synopsis

```
racadm getkvminfo
```

Example

```
racadm getkvminfo

<module>  <presence>    <model>             <FW Version>  <status>
KVM         Present     Avocent iKVM Switch     00.05.00.04   Ready
```


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getled

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getled	Displays the LED settings on a module: blinking, not blinking, or unknown (for empty slots).

Synopsis

```
racadm getled -m <module>
```

Table 2-16 describes the **getled** subcommand options.

Table 2-16. getled Subcommand Options

Option	Description
-m <*module*>	Specifies the module whose LED settings you want to view. <*module*> can be one of the following: • `server-`*n* where *n*=1–16 • `switch-`*n* where *n*=1–6 • `chassis` • `cmc-active`

Examples

- `racadm getled -m server-10`

```
<module>      <LED state>
server-10     Blinking
```

- `racadm getled -m chassis`

```
<module>      <LED state>
server-10     Not blinking
```

- `racadm getled -m server-1`

```
<module>      <LED state>
server-1        ON
```


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```
racadm getled -m server-9

<module>      <LED state>
server-9       Extension(1)
```

getmacaddress

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getmacaddress	Displays the MAC/WWN addresses for all modules or for a specified module.

Synopsis

```
racadm getmacaddress [-m <module>] [-t iscsi] [-x]

racadm getmacaddress [-a]
```

Table 2-17 describes the **getmacaddress** subcommand options.

Table 2-17. getmacaddress Subcommand Options

Option	Description
-m <*module*>	Specifies the module whose MAC address you want to view. <*module*> may be one of the following: • `chassis` • `server-n` where *n*=1–16 • `switch-n` where *n*=1–6
-t	Displays the iSCSI MAC addresses for all servers or the specified server if used with **-m** option.
-x	Displays the extra MACs (Ethernet or iSCSI) for servers with additional LOM MACs and must be used with -m option.
-a	Displays the Ethernet and iSCSI MAC/WWN addresses for all iDRAC/LOMs/mezzanine cards. When FlexAddress is enabled for a particular slot, then the chassis-assigned MAC/WWN address is displayed.

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Example

- Display iSCSI MAC addresses for all servers.

  ```
  racadm getmacaddress -t iscsi
  ```

- Display iSCSI MAC for server-1.

  ```
  racadm getmacaddress -m server-1 -t iscsi
  ```

- Display extra iSCSI MACs for server-1 (if available).

  ```
  racadm getmacaddress -m server-1 -t iscsi -x
  ```

- Display MAC for server-1.

  ```
  racadm getmacaddress -m server-1
  ```

```
<Name>    <Presence>    <BMC MAC Address>  <NIC1 MAC          <NIC2 MAC
                                           Address>           Address>

server-1  Present       00:11:43:FD:B7:2A  00:11:43:FD:B7:    00:11:43:FD:B7:2B
                                           2A

server-9  Extension(1)  N/A                00:11:43:FD:B7:    00:11:43:FD:B7:2D
                                           2C
```

- Display extra MACs for server-1 (if available).

  ```
  racadm getmacaddress -m server-1 -x
  ```

```
<Name>    <Presence>    <BMC MAC Address>  <NIC1 MAC          <NIC2 MAC
                                           Address>           Address>

server-1  Present       00:11:43:FD:B7:2A  00:11:43:FD:B7:    00:11:43:FD:B7:2B
                                           2A

                                           00:11:43:FD:B7:    00:11:43:FD:B7:2D
                                           2C
```

```
racadm getmacaddress
```

```
<Name>     <Presence>    <BMC MAC Address>  <NIC1 MAC          <NIC2 MAC
                                            Address>           Address>

CMC        Present       N/A                00:1E:4F:1F:3C     N/A
                                            :58

Server-1   Present       00:1E:4F:2A:AF:7B  00:1E:4F:2A:D3     00:1E:4F:2A:D3:99
                                            :97

Server-2   Present       00:22:19:D2:1E:84  N/A                N/A
```


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Server-3	Not Present	N/A	N/A	N/A
Server-4	Present	00:18:8B:FF:45:2A	00:18:8B:FF:AA:02	00:18:8B:FF:AA:04
Server-5	Present	00:19:B9:FF:FE:E2	00:19:B9:FF:FC:0C	00:19:B9:FF:FC:0E
Server-6	Present	00:22:19:D2:1D:D4	N/A	N/A
Server-7	Present	00:1E:4F:FF:FC:DC	00:1E:4F:FF:F0:B0	00:1E:4F:FF:F0:B2
Server-8	Not Present	N/A	N/A	N/A
Server-9	Not Present	N/A	N/A	N/A
Server-10	Not Present	N/A	N/A	N/A
Server-11	Not Present	N/A	N/A	N/A
Server-12	Not Present	N/A	N/A	N/A
Server-13	Present	00:18:8B:FF:45:26	00:18:8B:FF:A9:F2	00:18:8B:FF:A9:F4
Server-14	Present	00:22:19:D2:1E:A2	N/A	N/A
Server-15	Extension(7)	N/A	00:1E:4F:FF:F0:B4	00:1E:4F:FF:F0:B6
Server-16	Not Present	N/A	N/A	N/A
Switch-1	Present	N/A	00:00:00:00:00:00	N/A
Switch-2	Present	N/A	00:00:00:00:00:00	N/A
Switch-3	Present	N/A	00:00:00:00:00:00	N/A
Switch-4	Present	N/A	00:00:00:00:00:00	N/A
Switch-5	Present	N/A	00:05:1E:08:EB:0B	N/A
Switch-6	Not Present	N/A	N/A	N/A

- Display Ethernet and iSCSI MACS of all LOMs/mezzanine cards.

  `racadm getmacaddress -a`

<Name>	<Type>	<Presence>	<BMC MAC Address>	<NIC1 MAC Address>	<NIC2 MAC Address>
CMC	N/A	Present	N/A	00:1E:4F:1F:3C:58	N/A

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Server-1-A	Gigabit Ethernet	Present	00:1E:4F:2A:AF:7B	00:1E:4F:2A:D3:97	00:1E:4F:2A:D3:99
	iSCSI	Present		00:1E:4F:2A:D3:98	00:1E:4F:2A:D3:9A
Server-1-B	Gigabit Ethernet	Present		Not Installed	Not Installed
	iSCSI	Present		Not Installed	Not Installed
Server-1-C	Fibre Channel 4	Present		Not Installed	Not Installed
Server-2-A	Gigabit Ethernet	Present	00:22:19:D2:1E:84	N/A	N/A
	iSCSI	Present		N/A	N/A
Server-2-B	Gigabit Ethernet	Present		Not Installed	Not Installed
	iSCSI	Present		Not Installed	Not Installed
Server-2-C	Fibre Channel 4	Present		Not Installed	Not Installed
Server-3	N/A	Not Present	N/A	N/A	N/A
Server-4-A	Gigabit Ethernet	Present	00:18:8B:FF:45:2A	00:18:8B:FF:AA:02	00:18:8B:FF:AA:04
	iSCSI	Present		00:18:8B:FF:AA:03	00:18:8B:FF:AA:05
Server-4-B	Gigabit Ethernet	Not Present		Not Installed	Not Installed
	iSCSI	Present		Not Installed	Not Installed
Server-4-C	Fibre Channel 4	Present		Not Installed	Not Installed
Server-5-A	Gigabit Ethernet	Present	00:19:B9:FF:FE:E2	00:19:B9:FF:FC:0C	00:19:B9:FF:FC:0E
	iSCSI	Present		00:19:B9:FF:FC:0D	00:19:B9:FF:FC:0F
Server-5-B	Gigabit Ethernet	Present		Not Installed	Not Installed
	iSCSI	Present		Not Installed	Not Installed
Server-5-C	Fibre Channel 4	Present		Not Installed	Not Installed

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Server-6-A	Gigabit Ethernet	Present	00:22:19:D2:1D:D4	N/A	N/A
	iSCSI	Present		N/A	N/A
Server-6-B	Gigabit Ethernet	Present		Not Installed	Not Installed
	iSCSI	Present		Not Installed	Not Installed
Server-6-C	Fibre Channel 4	Present		Not Installed	Not Installed
Server-7-A	Gigabit Ethernet	Present	00:1E:4F:FF:FC:DC	00:1E:4F:FF:F0:B0	00:1E:4F:FF:F0:B2
	iSCSI	Present		00:1E:4F:FF:F0:B1	00:1E:4F:FF:F0:B3
Server-7-B	Gigabit Ethernet	Present		00:1D:09:72:01:C8	00:1D:09:72:01:CA
Server-7-C	Fibre Channel 4	Present		21:00:00:1B:32:0E:CF:34	21:01:00:1B:32:2E:CF:34
Server-8	N/A	Not Present	N/A	N/A	N/A
Server-9	N/A	Not Present	N/A	N/A	N/A
Server-10	N/A	Not Present	N/A	N/A	N/A
Server-11	N/A	Not Present	N/A	N/A	N/A
Server-12	N/A	Not Present	N/A	N/A	N/A
Server-13-A	Gigabit Ethernet	Present	00:18:8B:FF:45:26	00:18:8B:FF:A9:F2	00:18:8B:FF:A9:F4
	iSCSI	Present		00:18:8B:FF:A9:F3	00:18:8B:FF:A9:F5
Server-13-B	Gigabit Ethernet	Present		00:1D:09:71:E0:78	00:1D:09:71:E0:7A
	iSCSI	Present		00:1D:09:71:E0:79	00:1D:09:71:E0:7B
Server-13-C	Fibre Channel 4	Present		21:00:00:1B:32:0E:EF:30	21:01:00:1B:32:2E:EF:30
Server-14-A	Gigabit Ethernet	Present	00:22:19:D2:1E:A2	N/A	N/A
	iSCSI	Present		N/A	N/A
Server-14-B	Gigabit Ethernet	Present		Not Installed	Not Installed
	iSCSI	Present		Not Installed	Not Installed

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Server-14-C	Fibre Channel 4	Present		Not Installed	Not Installed
Server-15-A	Gigabit Ethernet	Extension(7)	N/A	00:1E:4F:FF:F0:B4	00:1E:4F:FF:F0:B6
	iSCSI	Extension(7)	N/A	00:1E:4F:FF:F0:B5	00:1E:4F:FF:F0:B7
Server-15-B	Gigabit Ethernet	Extension(7)	N/A	00:1D:09:71:E1:20	00:1D:09:71:E1:22
	iSCSI	Extension(7)	N/A	00:1D:09:71:E1:21	00:1D:09:71:E1:23
Server-15-C	Fibre Channel 4	Extension(7)	N/A	21:00:00:1B:32:17:3A:66	21:00:00:1B:32:37:3A:66
Server-16	N/A	Not Present	N/A	N/A	N/A
Switch-1	None	Present	N/A	00:00:00:00:00:00	N/A
Switch-2	None	Present	N/A	00:00:00:00:00:00	N/A
Switch-3	None	Present	N/A	00:00:00:00:00:00	N/A
Switch-4	None	Present	N/A	00:00:00:00:00:00	N/A
Switch-5	None	Present	N/A	00:05:1E:08:EB:0B	N/A
Switch-6	N/A	Not Present	N/A	N/A	N/A

getmodinfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

NOTE: The service tag field is blank for modules that do not have service tags.

Subcommand	Description
getmodinfo	Displays configuration and status information for all modules or a specified module (server, switch, CMC, fan unit, power supply unit, KVM, or I2C cable) in the chassis.

Synopsis

```
racadm getmodinfo [-m <module>] [-A]
```


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Table 2-18 describes the **getmodinfo** subcommand options.

Table 2-18. getmodinfo Subcommand Options

Option	Description
-m <*module*>	Specifies the module whose configuration and status information you want to view. The default command (no options) displays information about all major components in the chassis. <*module*> may be any of the following values: • `server-`*n* where *n*=1–16 • `switch-`*n* where *n*=1–6 • `CMC-`*n* where *n*=1–2 • `fan-`*n* where *n*=1–9 • `ps-`*n* where *n*=1–6 • chassis • `kvm` • `io-cable` • `fpc-cable`
-A	Suppresses headers and labels in the output.

Example

- `racadm getmodinfo -m switch-1`

```
<module>      <presence>    <pwrState>    <health>       <svcTag>
Switch-1        Present           ON           OK         CG09074
```

- `racadm getmodinfo`

```
<module>      <presence>    <pwrState>    <health>       <svcTag>
Chassis         Present       ON           Not OK       ABC1234
Fan-1           Present       ON            OK
Fan-2           Present       ON            OK
Fan-3           Present       ON            OK
Fan-4           Present       ON            OK
Fan-5           Present       ON            OK
Fan-6           Present       ON            OK
Fan-7           Present       ON            OK
Fan-8           Present       ON            OK
Fan-9           Present       ON            OK
PS-1            Present       Online        OK
```


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```
PS-2            Not Present   N/A           N/A          N/A
PS-3            Present       Online        OK
PS-4            Not Present   N/A           N/A          N/A
PS-5            Not Present   N/A           N/A          N/A
PS-6            Not Present   N/A           N/A          N/A
CMC-1           Present       Primary        OK           N/A
CMC-2           Not Present   N/A           N/A          N/A
Switch-1        Not Present   N/A           N/A          N/A
Switch-2        Not Present   N/A           N/A          N/A
Switch-3        Not Present   N/A           N/A          N/A
Switch-4        Not Present   N/A           N/A          N/A
Switch-5        Not Present   N/A           N/A          N/A
Switch-6        Not Present   N/A           N/A          N/A
Server-1        Not Present   N/A           N/A          N/A
Server-2        Present       OFF           OK
Server-3        Present       ON            OK           S YW
Server-4        Present       ON            OK
Server-5        Present       ON            OK
Server-6        Present       ON            OK           1234567
Server-7        Present       ON            OK
Server-8        Not Present   N/A           N/A          N/A
Server-9        Not Present   N/A           N/A          N/A
Server-10       Extension(2)  N/A           N/A          N/A
Server-11       Not Present   N/A           N/A          N/A
Server-12       Present       ON            OK
Server-13       Not Present   N/A           N/A          N/A
Server-14       Present       ON            OK           0000015
Server-15       Present       ON            OK
Server-16       Present       ON            OK
KVM             Present       ON            OK
IO-Cable        Present       ON            OK           ABC1234
FPC-Cable         Present         ON              OK       ABC1234
```

NOTE: For CMC (only) a power state of "Primary" denotes Active CMC.

getniccfg

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
getniccfg	The getniccfg subcommand displays the current NIC settings.

Synopsis

```
racadm getniccfg
```


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Sample Output

The **getniccfg** subcommand displays an appropriate error message if the operation is not successful. Otherwise, on success, the output is displayed in the following format:

```
IPv4 settings:
NIC Enabled     = 1
IPv4 Enabled = 1
DHCP Enabled    = 1
IP Address      = 10.35.0.64
Subnet Mask     = 255.255.255.0
Gateway         = 10.35.0.1
IPv6 settings:
IPv6 Enabled       = 0
DHCP6 Enabled      = 1
IP Address 1       = ::
Gateway            = ::
Link Local Address = ::
IP Address 2       = ::
IP Address 3       = ::
IP Address 4       = ::
IP Address 5       = ::
IP Address 6       = ::
IP Address 7       = ::
IP Address 8       = ::
IP Address 9       = ::
IP Address 10      = ::
IP Address 11      = ::
IP Address 12      = ::
IP Address 13      = ::
IP Address 14      = ::
```


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```
IP Address 15      = ::
LOM Status:
NIC Selection   = Dedicated
Link Detected   = Yes
Speed           = 10Mb/s
Duplex Mode     = Half Duplex
```

NOTE: IPv6 information is displayed only if IPv6 is enabled in iDRAC6.

NOTE: LOM Status is displayed only for iDRAC6 on Rack and Tower servers and is not displayed for iDRAC6 Enterprise on Blade servers.

getpbinfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getpbinfo	Displays power budget status information.

Synopsis

```
racadm getpbinfo
```

Example

```
racadm getpbinfo

[Power Budget Status]
System Input Power              = 700 W
Peak System Power               = 0 W
Peak System Power Timestamp     = 01:08:23 01/27/2009
Minimum System Power            = 0 W
Minimum System Power Timestamp  = 20:18:30 01/27/2000
Overall Power Health            = Not OK
Redundancy                      = No
System Input Power Cap          = 7928 W
Redundancy Policy               = None
Dynamic PSU Engagement Enabled  = No
System Input Max Power Capacity = 0 W
Input Redundancy Reserve        = 0 W
Input Power Allocated to Servers = 0 W
```


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```
Input Power Allocated to Chassis Infrastructure = 51 watts
Total Input Power Available for Allocation     = 0 W
Standby Input Power Capacity                    = 0 W


[Chassis Power Supply Status Table]
<Name> <Presence> <Power State> <Input Current> <Input Volts>
<Output Rating>
PS1    Online        On           16.1 A          32 V
  2360 W
PS2    Not Present   Slot Empty   N/A             N/A
  N/A
PS3    Not Present   Slot Empty   N/A             N/A
  N/A
PS4    Not Present   Slot Empty   N/A             N/A
  N/A
PS5    Not Present   Slot Empty   N/A             N/A
  N/A
PS6    Not Present   Slot Empty   N/A             N/A
  N/A
[Server Module Power Allocation Table]
<Slot#><Server Name><PowerState><Allocation><Priority><Blade Type>
  1    SLOT-01        N/A       N/A          5         N/A
  2    SLOT-02        OFF       0 W          5       PowerEdgeM805
  3    SLOT-03        ON        164 W        5         N/A
  4    SLOT-04        ON        155 W        5
  5    SLOT-05        ON        180 W        5
  6    SLOT-06        ON        180 W        5       PowerEdgeM600
  7    SLOT-07        ON        170 W        5
  8    SLOT-08        N/A       N/A          5         N/A
  9    SLOT-09        N/A       N/A          5         N/A
  10   SLOT-10     Extension(2) N/A          5         N/A
  11   SLOT-11        N/A       N/A          5         N/A
  12   SLOT-12        ON        125 W        5      PowerEdgeM600
  13   SLOT-13        N/A       N/A          5         N/A
  14   SLOT-14        ON        342 W        5         N/A
  15   SLOT-15        ON        140 W        5
  16   SLOT-16        ON        125 W        5         N/A
```


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getpminfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getpminfo	Displays power management status information.

Synopsis

```
racadm getpminfo
```

Example

```
racadm getpminfo
```

```
[Real-Time Power Statistics]
System Input Power              = 600 W (188 BTU/hr)
Peak System Power               = 600 W (188 BTU/hr
Peak System Power Start Time    = 16:02:10 01/16/2008
Peak System Power Timestamp     = 06:32:55 01/26/2009
Minimum System Power            = 400 W (177 BTU/hr)
Minimum System Power Start Time = 22:43:21 01/21/2008
Minimum System Power Timestamp  = 06:32:55 01/26/2009
System Idle Power               = 68 W (188 BTU/hr)
System Potential Power          = 68 W (188 BTU/hr)
System Input Current Reading    = 31.2 A

[Real-Time Energy Statistics]
System Energy Consumption               = 6.4 kWh
System Energy Consumption Start Time    = 16:02:10
01/16/2008
System Energy Consumption Timestamp     = 16:02:10
01/16/2008

[System Power Status]
Chassis Power State                    = ON
Overall Power Health                   = OK
Redundancy                             = No
```


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```
[System Power Policy Configuration]
System Input Power Cap                  = 7928 W (7928
BTU/hr | 10%)
Surplus for Peak Performance            = 7000 W (6130
BTU/hr)
Redundancy Policy                        = None
Dynamic PSU Engagement Enabled           = No

[Power Budgeting]
System Input Max Power Capacity                  = 0 W
Input Redundancy Reserve                         = 0 W
Input Power Allocated to Servers                 = 0 W
Input Power Allocated to Chassis Infrastructure = 51W
Total Input Power Available for Allocation       = 0 W
Standby Input Power Capacity                     = 0 W
```

getraclog

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
getraclog	The getraclog -i command displays all the RAC log entries in the DRAC.

Synopsis

```
racadm getraclog -i
```

```
racadm getraclog [-A] [-o] [-c count] [-s start-
record] [--more]
```

Table 2-19 lists the options that allow the **getraclog** command to read entries.

Table 2-19. getraclog Subcommand Options

Option	Description
-A	Displays the output with no headers or labels.
-c	Provides the maximum count of entries to be returned.

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Table 2-19. getraclog Subcommand Options *(continued)*

Option	Description
--more	Displays one screen at a time and prompts the user to continue (similar to the UNIX **more** command).
-o	Displays the output in a single line.
-s	Specifies the starting record used for the display.

NOTE: If no options are provided, the entire log is displayed.

Output

The default output display shows the record number, time stamp, source, and description. The timestamp begins at midnight, January 1 and increases until the system boots. After the system boots, the system's timestamp is used.

NOTE: For iDRAC6 Enterprise on Blade Servers, iDRAC6 Log entries for *SystemBoot* displayed using the local racadm command `racadm getraclog` may not be correctly formatted. For example, some extra characters may be displayed in the **Description** field, or the **Source** field may be empty.

Sample Output

```
Record:       1
Date/Time:    Dec  8 08:10:11
Source:       login[433]
Description:  root login from 143.166.157.103
```

getractime

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
getractime	The getractime subcommand displays the current DRAC time.

Table 2-20 lists the options that allow the **getractime** command to display the time in specific formats:

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Table 2-20. getractime Subcommand Options

Option	Description
-d	Displays the time in the format, yyyymmddhhmmss.mmmmmms.
-z	Displays timezone. **NOTE:** This option is specific to CMC only.
-n	Displays NTP peer information. **NOTE:** This option is specific to CMC only.

NOTE: If no options are provided, the getractime subcommand displays the time in a common readable format.

Synopsis

```
racadm getractime [-d]
racadm getractime [-d] [-z] [-n]
```

Sample Output

```
racadm getractime
Thu Dec  8 20:15:26 2005

racadm getractime -d
20051208201542.000000
```

getredundancymode

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getredundancy mode	Displays the redundancy status (Redundant or Non-Redundant) of the CMC.

Synopsis

```
racadm getredundancymode
```


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Example

```
racadm getredundancymode
Redundant
```

getsel

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
getsel	The getsel subcommand display all sensor event log entries in the DRAC.

Synopsis

```
racadm getsel -i[-A]
racadm getsel [-s <start>] [-c <count>] [-A] [-o] [-E]
[-R] [--more]
```

NOTE: If no arguments are specified, the entire log is displayed.

The following **getsel** options (without the **-i** option) are used to read entries. Table 2-21 describes the **getsel** subcommand options.

Table 2-21. getsel Subcommand Options

Option	Description
-A	Specifies output with no display headers or labels.
-c	Provides the number of records to be displayed.
-o	Displays each entry in the SEL in a single line.
-s	Specifies the starting record used for the display.
-E	Displays RAW SEL data with the other data for each entry.
-R	Displays only RAW SEL data for each entry.
-i	Displays the number of entries in the SEL.
--more	Displays one screen at a time and prompts the user to continue (similar to the UNIX **more** command).

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Output

The default output display shows the record number, timestamp, severity, and description.

For example:

```
Record:      1
Date/Time:   11/16/2005 22:40:43
Severity:    Ok
Description: System Board SEL: event log sensor for
System Board, log cleared was asserted
```

getsensorinfo

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getsensorinfo	Displays status for system sensors.

Synopsis

```
racadm getsensorinfo
```

Examples

```
racadm getsensorinfo
```

```
<senType> <Num> <sensorName> <status> <reading> <units> <lc> <uc>
FanSpeed   1     Fan-1         OK      4768      rpm    2344 14500
FanSpeed   2     Fan-2         OK      4873      rpm    2344 14500
FanSpeed   3     Fan-3         OK      4832      rpm    2344 14500
FanSpeed   4     Fan-4         OK      4704      rpm    2344 14500
FanSpeed   5     Fan-5         OK      4833      rpm    2344 14500
FanSpeed   6     Fan-6         OK      4829      rpm    2344 14500
FanSpeed   7     Fan-7         OK      4719      rpm    2344 14500
FanSpeed   8     Fan-8        Not OK   1         rpm    2344 14500
FanSpeed   9     Fan-9         OK      4815      rpm    2344 14500

<senType> <Num> <sensorName> <status> <reading> <units> <lc> <uc>
Temp        1   Ambient_Temp  OK        22      celcius  N/A  40
```


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```
<senType>   <Num>     <sensorName>    <status>      <AC-OK status>
PWR         1         PS-1            Online        OK
PWR         2         PS-2            Online        OK
PWR         3         PS-3            Online        OK
PWR         4         PS-4            Slot Empty    N/A
PWR         5         PS-5            Failed        OK
PWR         6         PS-6            Slot Empty    N/A

<senType>   <Num>     <sensorName>    <status>
Cable         1          IO-Cable          OK
Cable         2          FPC-Cable         OK
```

getslotname

NOTE: To use this subcommand, you must have **CMC Login User** privilege.

Subcommand	Description
getslotname	Displays the name and hostname (if available) of all 16 slots, or of a specified slot (indicated by the slot number) in the chassis. Optionally, this command can be used to find if the slot name or hostname is displayed in the CMC User Interface or with the `getslotname -i <slot ID>` command. If the hostname is not available, the static slot name is used.

Synopsis

```
racadm getslotname

racadm getslotname -i <slot ID>

racadm getslotname -h
```


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Table 2-22 describes the **getslotname** subcommand options.

Table 2-22. getslotname Subcommand Options

Option	Description
(None)	Displays the slot name for all 16 slots in the chassis.
`-i <`*slot ID*`>`	Specifies the ID of the slot. **Legal values:** 1–16
`-h`	Specifies whether to use the slot name or the hostname (if available). 1=use hostnames, 0=use slotnames

Example

- `racadm getslotname`

```
<Slot #> <Slot Name>      <Host name>
   1       SLOT-01
   2       Webserver01     WXP-8GRB221
   3       Webserver3      WXP-319QWEecet5
   4       SLOT-04
   5       SLOT-05
   6       SLOT-06
   7       SLOT-07
   8       SLOT-08
   9       SLOT-09
  10       SLOT-10
  11       SLOT-11
  12       SLOT-12
  13       SLOT-13
  14       SLOT-14
  15       SLOT-15
  16       SLOT-16
```

- `racadm getslotname -i 1`

```
Webserver-1
```


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getssninfo

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
getssninfo	Displays a list of users that are connected to iDRAC6. The following information is displayed: • Session ID • Username • IP address (if applicable) • Session type (for example, serial or Telnet) • Login date and time in MM/DD/YYYY HH:MM:SS format

Based on the Session ID (SSNID) or the user name (User), the iDRAC administrator can close the respective sessions or all the sessions using the , **closessn** subcommand. For more information, see "closessn" on page 39 .

Synopsis

```
racadm getssninfo [-A] [-u <username> | *]
```

Table 2-23 describes the **getssninfo** subcommand options.

Table 2-23. getssninfo Subcommand Options

Option	Description
-A	The **-A** option eliminates the printing of data headers.
-u	The **-u** <*username*> user name option limits the printed output to only the detail session records for the given user name. If an (*) symbol is given as the user name, all users are listed. Summary information is not printed when this option is specified.

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Examples

- `racadm getssninfo`

SSNID	Type	User	IP Address	Login Date/Time
6	GUI	root	192.168.0.10	04/07/2010 12:00:34

- `racadm getssninfo -A`
  `"root" "143.166.174.19" "Telnet" "NONE"`
- `racadm getssninfo -A -u *`
  `"root" "143.166.174.19" "Telnet" "NONE"`
  `"bob" "143.166.174.19" "GUI" "NONE"`

getsvctag

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
getsvctag	Displays the service tag of the host system.

Synopsis

`racadm getsvctag`

Example

Type `getsvctag` at the command prompt. The output is displayed as follows:

```
Y76TP0G
```


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getsysinfo

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
getsysinfo	Displays information related to iDRAC, managed system, and watchdog configuration.

NOTE: The local racadm **getsysinfo** subcommand on Linux displays the *PrefixLength* on separate lines for IPv6 Address 2 – IPv6 Address 15 and the Link Local Address.

Synopsis

```
racadm getsysinfo [-d] [-s] [-w] [-A] [-c] [-4] [-6]
```

Table 2-24 describes the **getsysinfo** subcommand options.

Table 2-24. getsysinfo Subcommand Options

Option	Description
-4	Displays IPv4 settings
-6	Displays IPv6 settings
-c	Displays common settings
-d	Displays iDRAC6 information
-s	Displays system information
-w	Displays watchdog information
-A	Eliminates the printing of headers/labels

If the **-w** option is not specified, then the other options are used as defaults.

Sample Output

```
RAC Information:
RAC Date/Time           = 10/27/2009 14:38:00
Firmware Version        = 1.30
Firmware Build          = 20
```


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```
Last Firmware Update    = 10/26/2009 16:55:08
Hardware Version        = 0.01
MAC Address             = 00:24:e8:2e:c5:d3

Common settings:
Register DNS RAC Name   = 1
DNS RAC Name            = eval710-08-r
Current DNS Domain      = blr.amer.dell.com
Domain Name from DHCP   = 1

IPv4 settings:
Enabled                 = 1
Current IP Address      = 10.94.20.134
Current IP Gateway      = 10.94.20.1
Current IP Netmask      = 255.255.254.0
DHCP Enabled            = 1
Current DNS Server 1    = 163.244.180.39
Current DNS Server 2    = 163.244.180.40
DNS Servers from DHCP   = 1

IPv6 settings:
Enabled                 = 1
Current IP Address 1    = ::
Current IP Gateway      = ::
Autoconfig              = 1
Link Local IP Address   = fe80::224:e8ff:fe2e:c5d3/255
Current IP Address 2    = ::
Current IP Address 3    = ::
Current IP Address 4    = ::
```


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```
Current IP Address 5    = ::
Current IP Address 6    = ::
Current IP Address 7    = ::
Current IP Address 8    = ::
Current IP Address 9    = ::
Current IP Address 10   = ::
Current IP Address 11   = ::
Current IP Address 12   = ::
Current IP Address 13   = ::
Current IP Address 14   = ::
Current IP Address 15   = ::
DNS Servers from DHCPv6 = 0
Current DNS Server 1    = ::
Current DNS Server 2    = ::

System Information:
System Model            = PowerEdge R710
System BIOS Version     = 1.0.4
Service Tag             = 2X2Q12S
Express Svc Code        = 39059052868
Host Name               = WIN-IHF5D2BF5SN
OS Name = Microsoft Windows Server 2008, Enterprise
x64 Edition
System Revision          = I
Power Status            = ON

Embedded NIC MAC Addresses:
NIC1 Ethernet           = 00:24:e8:2e:c5:cb
     iSCSI              = 00:24:e8:2e:c5:cc
```


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```
NIC2 Ethernet           = 00:24:e8:2e:c5:cd
     iSCSI              = 00:24:e8:2e:c5:ce
NIC3 Ethernet           = 00:24:e8:2e:c5:cf
     iSCSI              = 00:24:e8:2e:c5:d0
NIC4 Ethernet           = 00:24:e8:2e:c5:d1
     iSCSI              = 00:24:e8:2e:c5:d2

Watchdog Information:
Recovery Action         = None
Present countdown value = 15 seconds
Initial countdown value = 15 seconds
```

Examples

- `racadm getsysinfo -A -s`

  ```
  "System Information:" "PowerEdge 2900" "A08" "1.0"
  "EF23VQ-0023" "Hostname"

  "Microsoft Windows 2000 version 5.0, Build Number
  2195, Service Pack 2" "ON"
  ```

- `racadm getsysinfo -w -s`

  ```
  System Information:
  System Model             = PowerEdge 2900
  System Revision          = I
  System BIOS Version      = 0.2.3
  BMC Firmware Version     = 0.17
  Service Tag              = 48192
  Host Name                = racdev103
  OS Name                  = Microsoft Windows
  Server 2003
  Power Status            = OFF

  Watchdog Information:
  Recovery Action          = None
  Present countdown value  = 0 seconds
  Initial countdown value = 0 seconds
  ```


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Limitations

The Hostname and OS Name fields in the **getsysinfo** output display accurate information only if Dell OpenManage Server Administrator is installed on the managed system. If it is not installed, these fields may be blank or inaccurate. An exception to this are VMware operating system names, which are displayed even if Server Administrator is not installed on the managed system.

gettracelog

NOTE: To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Description
gettracelog	The gettracelog sub command lists all the trace log entries in the DRAC.

Table 2-25 lists the **gettracelog** options used to read entries.

Table 2-25. gettracelog Subcommand options

Option	Description
-i	Displays the number of entries in iDRAC6 trace log.
-m	Displays one screen at a time and prompts the user to continue (similar to the UNIX more command).
-o	Displays each entry in a single line.
-c	Specifies the number of records to display.
-s	Specifies the starting record to display.
-A	Do not display headers or labels.

Synopsis

```
racadm gettracelog -i[-A]

racadm gettracelog [-s <start>] [-c <count>] [-m] [-A]
[-o]
```


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Output

The default output display shows the record number, timestamp, source, and description. The timestamp begins at midnight, January 1 and increases until the system boots. After the system boots, the system's timestamp is used.

For example:

```
Record:      1
Date/Time:   Dec  8 08:21:30
Source:      ssnmgrd[175]
Description: root from 143.166.157.103: session
timeout sid 0be0aef4
```

getuscversion

NOTE: This option is applicable only for iDRAC6.

Subcommand	Description
getuscversion	Displays the current USC software version details in iDRAC.

Synopsis

```
racadm getuscversion
```

Example

```
$ racadm getuscversion
1.2.3.4
```


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getversion

NOTE: To use this subcommand, you must have **Login** privilege.

Subcommand	Description
getversion	Displays the current software version, model and generation information, and whether or not the target device can be updated.

Synopsis

```
racadm getversion [-b | -c] [-m <module>]

racadm getversion -l  [-m <module>]  [-f <filter>]

racadm getversion
```

Table 2-26 describes the **getversion** subcommand options.

Table 2-26. getversion Subcommand Options

Option	Description
(none)	Displays the version information for all targets or devices.
-m <*module*>	Specifies the module or device for which you want to retrieve the version information. <*module*> is one of the following: • `server-`*n* where *n* = 1-16. For example, `server-1`. • cmc-*n* where n= 1 or 2. For example, `cmc-2`.
-c	Displays the server's current CPLD version.
-b	Displays the server's current BIOS version (default is iDRAC version).
-l	Displays the firmware versions of available server components.

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Table 2-26. getversion Subcommand Options *(continued)*

Option	Description
-f <filter>	Filters the components. Must be used with **-l** and be one of the following values: • bios: BIOS • idrac: iDRAC • usc: Lifecycle Controller (Unified Server Configurator) • diag: 32-bit Diagnostics • drivers: OS Driver Package • nic-x: Network Interface card. See **-l** output for possible values of x • raid-x: Raid Controller. See **-l** output for possible values of x

NOTE: The **-b**, **-c** and **-l** options are not available for CMC modules.

NOTE: The **-l** option requires that the Lifecycle Controller service is enabled on the servers. For version information, see the RACADM Readme available on the Dell Support website at **dell.com/support/manuals**.

Example

- `racadm getversion -m server-15`

```
<server>  <iDRAC version>  <model name>  <Gen>  <Updatable>
server-15   2.00(Build 10)  PowerEdgeM605 iDRAC      N
```

`racadm getversion`

```
<Server> <iDRAC Version> <Blade Type>  <Gen>   <Updatable>
server-2 1.50            PowerEdgeM600 iDRAC   Y
server-3 2.10            PowerEdgeM610 iDRAC6  Y
server-4 1.50            PowerEdgeM605 iDRAC   Y
<CMC>    <CMC Version>                         <Updatable>
cmc-1    2.10.X06.200906
         080825                                Y
```


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- racadm getversion -c

<Server>	<CPLD Version>	<Blade Type>
server-1		PowerEdgeM600
server-2		PowerEdgeM805
server-5	1.0.0	PowerEdgeM710

- racadm getversion -b

<Server>	<BIOS Version>	<Blade Type>
server-1	2.0.0	PowerEdgeM605
server-2	1.1.0	PowerEdgeM805
server-5	1.1.0	PowerEdgeM710

- racadm getversion -l -m server-1

<Server>	<Component>	<Version>	<Install Date>
server-1	BIOS	1.2.1	2010-11-22
	iDRAC	3.20	2010-11-22
	USC	1.5.0.667	2011-02-05
	Diagnostics	5144A0	2011-02-07
	OS Drivers	6.3.0.15	2010-11-22
	Broadcom 5709 Emb(nic-1)	5.2.0	2011-02-02
	Broadcom 5709 Emb(nic-1)	5.2.0	2011-02-02
	Broadcom 5709 Emb(nic-1)	5.2.0	2011-02-02
	Broadcom 5709 Emb(nic-1)	5.2.0	2011-02-02
	PERC6 EMB (raid-2)	07.01.34.00	2011-02-02
	BIOS	0.1.7	Rollback

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```
          BIOS                1.2.1          Reinstall
          iDRAC               3.20           Reinstall
          PERC6 Emb (raid-2)  07.01.33.00    Rollback
          PERC6 Emb (raid-2)  07.01.33.00    Reinstall
```

- `racadm getversion -l -m server-1 -f bios`

```
<Server>    <Component>    <Version>      <Install Date>
server-1    BIOS           1.2.1          2010-11-22
```

ifconfig

NOTE: To use this subcommand, you must have **Execute Diagnostic Commands** or **Configure iDRAC** permission.

Subcommand	Description
ifconfig	Displays the contents of the network interface table.

Synopsis

```
racadm ifconfig
```

Example

```
$ racadm ifconfig

eth0     Link encap:Ethernet  HWaddr 00:1D:09:FF:DA:23

         inet addr:10.35.155.136  Bcast:10.35.155.255
Mask:255.255.255.0

           UP BROADCAST RUNNING MULTICAST  MTU:1500
Metric:1

           RX packets:2550665 errors:0 dropped:0
overruns:0 frame:0

           TX packets:0 errors:0 dropped:0 overruns:0
carrier:0
```


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```
          collisions:0 txqueuelen:1000
          RX bytes:272532097 (259.9 MiB)  TX bytes:0
(0.0 B)
```

krbkeytabupload

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

Subcommand	Description
krbkeytabupload	Uploads a Kerberos keytab file.

Synopsis

`racadm krbkeytabupload [-f <filename>]`

<*filename*> is the name of the file including the path.

Table 2-27 describes the **krbkeytabupload** subcommand options.

Table 2-27. kerbkeytabupload Subcommand Options

Option	Description
-f	Specifies the file name of the keytab to be uploaded. If the file is not specified, the keytab file in the current directory is selected.

The **krbkeytabupload** command returns `0` when successful and returns a non–zero number when unsuccessful.

Example

`racadm krbkeytabupload -f c:\keytab\krbkeytab.tab`

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kmcSelfSignedCertGen

NOTE: The current release does not support this subcommand.

NOTE: This is a non-extensible command that does not take any specific options.

Subcommand	Description
kmcSelfSignedCertGen	Generates the new self signed certificate for KMS purposes.

To generate a selfsigned certificate, data such as certificate specific information like Common name, Organization Unit, key size and so on, are required.This information is taken from the **cfgRacSecurityData** group with index set to 2.

localConRedirDisable

NOTE: Only a local RACADM user can execute this command.

NOTE: This option is applicable only for iDRAC6..

Subcommand	Description
localConRedirDisable	Disables Virtual Console to the management station.

Synopsis

`racadm localConRedirDisable <option>`

If `<option>` is set to 1, Virtual Console is disabled.

If `<option>` is set to 0, Virtual Console is enabled.

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netstat

NOTE: To use this subcommand, you must have **Execute Diagnostic Commands** permission.

Subcommand	Description
netstat	Displays the routing table and the current connections.

Synopsis

```
racadm netstat
```

ping

NOTE: To use this subcommand, you must have **Execute Diagnostic Commands** or **Configure iDRAC** permission.

Subcommand	Description
ping	Verifies that the destination IP address is reachable from iDRAC6 with the current routing-table contents. A destination IP address is required. An ICMP echo packet is sent to the destination IP address based on the current routing-table contents.

Synopsis

```
racadm ping <ipaddress>
```


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ping6

NOTE: To use this subcommand for CMC you must have **Administrator** privilege for CMC and for iDRAC you must have **Execute Diagnostic Commands** or **Configure iDRAC6** permission.

Subcommand	Description
ping6	Verifies that the destination IPv6 address is reachable from iDRAC6 or CMC or with the current routing-table contents. A destination IPv6 address is required. An ICMP echo packet is sent to the destination IPv6 address based on the current routing-table contents.

Synopsis

```
racadm ping6 <ipv6address>
```

Examples

```
racadm iping6 10.9.72.254

IPING6 10.9.72.254 (10.9.72.254): 56 data bytes
64 bytes from 10.9.72.254: icmp_seq=0 ttl=121 time=2.9
ms

--- 10.9.72.254 ping statistics ---
1 packets transmitted, 1 packets received, 0 percent
packet loss
round-trip min/avg/max = 2.9/2.9/2.9 ms
```


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racdump

NOTE: To use this subcommand for CMC you must have **Administrator** privilege and for iDRAC you must have **Debug** permission.

Subcommand	Description
racdump	Provides a single command to get dump, status, and general iDRAC6 board information. For CMC, this subcommand displays the comprehensive chassis status and configuration state information, as well as historic event logs. Used for post deployment configuration verification and during debugging sessions.

The following information is displayed when the **racdump** subcommand is processed:

- General system/RAC information
- Coredump
- Session information
- Process information
- Firmware build information

Racdump includes the following subsystems and aggregates the following RACADM commands:

Subsystem	RACADM Command
General System/RAC information	getsysinfo
Session information	getssinfo
Sensor information	getsensorinfo
Switches information (IO Module)	getioinfo
Mezzanine card information (Daughter card)	getdcinfo
All modules information	getmodinfo
Power budget information	getpbinfo
KVM information	getkvminfo

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Subsystem	RACADM Command
NIC information (CMC module)	getniccfg
Redundancy information	getredundancymode

Synopsis

```
racadm racdump
```

Example

```
racadm racdump

==============================================================
==========================
 General System/RAC Information
==============================================================
==========================

CMC Information:
CMC Date/Time           =
 Wed, 28 Nov 2007 11:55:49 PM
Active CMC Version      = X08
Standby CMC Version     = N/A
Last Firmware Update    = Wed Nov 21 21:37:56 2007
Hardware Version        = 2
Current IP Address      = 10.35.155.160
Current IP Gateway      = 10.35.155.1
Current IP Netmask      = 255.255.255.0
DHCP Enabled            = 1
MAC Address             = 00:55:AB:39:10:0F
Current DNS Server 1    = 0.0.0.0
Current DNS Server 2    = 0.0.0.0
DNS Servers from DHCP   = 0
Register DNS CMC Name   = 0
DNS CMC Name            = cmc-servicetag
Current DNS Domain      =


Chassis Information:
System Model            = PowerEdgeM1000eControlPanel
```


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```
System AssetTag          = 00000
Service Tag              =
Chassis Name             = Dell Rack System
Chassis Location         = [UNDEFINED]
Power Status             = ON

================================================================
==========================
 Session Information
================================================================
==========================

Type    User     IP Address      Login Date/Time
SSH     root     10.9.72.252     11/28/2007 23:40:53
KVM     root     169.254.31.30   11/28/2007 18:44:51



================================================================
==========================
 Sensor Information
================================================================
==========================

<senType> <Num> <sensorName> <status> <reading> <units> <lc> <uc>
FanSpeed    1    Fan-1         OK      14495    rpm     7250 14500
FanSpeed    2    Fan-2         OK      14505    rpm     7250 14500
FanSpeed    3    Fan-3         OK       4839    rpm     2344 14500
FanSpeed    4    Fan-4         OK      14527    rpm     7250 14500
FanSpeed    5    Fan-5         OK      14505    rpm     7250 14500
FanSpeed    6    Fan-6         OK       4835    rpm     2344 14500
FanSpeed    7    Fan-7         OK      14521    rpm     7250 14500
FanSpeed    8    Fan-8       Not OK        1    rpm     7250 14500
FanSpeed    9    Fan-9         OK       4826    rpm     2344 14500

<senType> <Num> <sensorName> <status> <reading> <units> <lc> <uc>
Temp        1   Ambient_Temp    OK       21     celcius  N/A  40
```


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```
<senType> <Num>  <sensorName>  <status>   <AC-OK status>
PWR         1       PS-1        Online          OK
PWR         2       PS-2        Online          OK
PWR         3       PS-3        Online          OK
PWR         4       PS-4       Slot Empty       N/A
PWR         5       PS-5        Failed          OK
PWR         6       PS-6        Slot Empty      N/A
```

racreset

NOTE: To use this subcommand for CMC you must have **Chassis Administrator** privilege and for iDRAC you must have **Configure iDRAC** permission.

NOTE: When you issue a racreset subcommand, iDRAC6 may require up to two minutes to return to a usable state.

Subcommand	Description
racreset	Issues a reset to iDRAC6. The reset event is written into iDRAC6 log.

NOTE: You must reboot your system after performing a hard reset of iDRAC6 as described in Table 2-28.

Synopsis

```
racadm racreset [hard | soft]
```

Table 2-28 describes the **racreset** subcommand options.

Table 2-28. racreset Subcommand Options

Option	Description
hard	A *hard* reset performs a deep reset operation on the remote access controller. A hard reset should only be used as a last case resort of resetting iDRAC6 controller for recovery purposes.
soft	A *soft* reset performs a graceful reboot operation on the RAC.

Examples

- `racadm racreset`

  Start the iDRAC6 soft reset sequence.

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- `racadm racreset hard`

  Start the iDRAC6 hard reset sequence.

racresetcfg

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

Subcommand	Description
racresetcfg	Removes all user-configured database property entries. The database has default properties for all entries that are used to restore iDRAC6 to the default settings. After resetting the database properties, iDRAC6 resets automatically.

NOTE: The **racresetcfg** subcommand does not reset the **cfgDNSRacName** object.

NOTE: This command deletes your current iDRAC6 configuration and resets iDRAC6 and serial configuration to the default settings. After reset, the default name and password is **root** and **calvin**, respectively, and the IP address is 192.168.0.120. Only for iDRAC6 Enterprise on Blade servers, it is IP address plus the number of the slot the server inhabits in the chassis. If you issue **racresetcfg** from a network client (for example, a supported Web browser, Telnet/ssh, or remote RACADM), you must use the default IP address.

NOTE: Certain iDRAC6 firmware processes need to be stopped and restarted for reset to defaults to complete. iDRAC6 becomes unresponsive for about 30 seconds while this operation completes.

Synopsis

```
racadm racresetcfg
```


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remoteimage

NOTE: To use this subcommand, you must have **Administrator** permission.

Subcommand	Description
remoteimage	Connects, disconnects, or deploys a media file on a remote server.

Synopsis

```
racadm remoteimage <options>
```

Table 2-29 describes the **remoteimage** subcommand options.

Table 2-29. remoteimage Subcommand Options and Descriptions

Option	Description
-c	Connect the image.
-d	Disconnect image.
-u	Username to access the network share.
-p	Password to access the network share.
-l	Image location on the network share; use double quotes around the location.
-s	Display current status; –a is assumed if not specified.

NOTE: If a drive is already connected, this remote image -c (connect) command terminates the previous command or the previous session.

Example

```
racadm remoteimage -c -u user -p password -l
//10.94.192.100/CommonShare/diskette.img
```


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serveraction

NOTE: To use this subcommand, you must have **Execute Server Control Commands** permission.

Subcommand	Description
serveraction	Enables users to perform power management operations on the host system.

Synopsis

```
racadm serveraction <action>
```

Table 2-30 describes the **serveraction** power control options.

Table 2-30. serveraction Subcommand Options

String	Description
<*action*>	Specifies the action. The options for the <*action*> string are: • **powerdown** — Powers down the managed system. • **powerup** — Powers up the managed system. • **powercycle** — Issues a power-cycle operation on the managed system. This action is similar to pressing the power button on the system's front panel to power down and then power up the system. • **powerstatus** — Displays the current power status of the server (ON or OFF) • **hardreset** — Performs a reset (reboot) operation on the managed system.

Output

The **serveraction** subcommand displays an error message if the requested operation could not be performed, or a success message if the operation is completed successfully.

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setassettag

NOTE: To use this subcommand, you must have **Administrator** privilege.

Subcommand	Description
setassettag	Sets the N-byte ASCII asset tag for the chassis.

Synopsis

```
racadm setassettag -m chassis <asset tag>
```


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Table 2-31 describes the **setassettag** subcommand option.

Table 2-31. setassettag Subcommand Options

Option	Command
-m <*module*>	Specifies the module whose asset tag you want to set. **Legal value:** `chassis` **NOTE:** Because there is only one legal value, you can obtain the same output if you do not include this option. **NOTE:** <*assettag*> is a maximum of 64 non-extended ASCII characters.

Example

Input:

```
racadm setassettag -m chassis 783839–33
```

or

```
racadm setassettag 783839–33
The asset tag was changed successfully.
```

setchassisname

NOTE: To use this subcommand, you must have **Administrator** privilege.

Subcommand	Description
setchassisname	Sets the name of the chassis in the LCD.

Synopsis

```
racadm setchassisname <name>
```

NOTE: Chassisname is a maximum of 64 non-extended ASCII characters

Example

```
racadm setchassisname dellchassis-1
The chassis name was set successfully.
```


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setflexaddr

NOTE: To use this subcommand, you must have **Chassis Configuration Administrator** privilege.

Subcommand	Description
setflexaddr	Enables/disables FlexAddress on a particular slot/fabric.

NOTE: If the fabric type is determined to be Infiniband, the operation is canceled and the command returns an error. If the FlexAddress feature is not activated, the command returns an error.

NOTE: The server must be powered off to change the slot state. All servers must be powered off to change the fabric state. The MAC/WWN addresses must be managed locally (not by an external console) to use this command.

Synopsis

```
racadm setflexaddr [-i <slot#> <state>]
[-f <fabricName> <state>]

<slot#> =  1 to 16

<fabricName> =  A, B, C

<state> =  0 or 1
```

where 0 is disable and 1 is enable.

Table 2-32 describes the **setflexaddr** subcommand options.

Table 2-32. setflexaddr Subcommand Options

Option	Description
-i <*slot#*> <*state*>	Enables/disables FlexAddress for the specified slot.
-f <*fabricName*> <*state*>	Enables/disables FlexAddress for the specified fabric.

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Example

- `racadm setflexaddr -i 1 0`

  `Slot 1 FlexAddress state set successfully`
- `racadm setflexaddr -f A 1`

  `Fabric A FlexAddress state set successfully`
- `racadm setflexaddr -f idrac 1`

setled

NOTE: To use this subcommand, you must have Login access and **Administrator** privilege for CMC and Configure iDRAC permission for iDRAC.

Subcommand	Description
setled	Sets the state (blinking or not blinking) of the LED on the specified module.

Synopsis for iDRAC6

```
racadm setled -l <ledState>
```

Synopsis for CMC

```
racadm setled -m <module> -l <ledState>
```


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Table 2-33 describes the **setled** subcommand options.

Table 2-33. setled Subcommand Options

Option	Description
-m <*module*>	**NOTE:** This option is applicable for CMC only. Specifies the module whose LED you want to configure. <*module*> can be one of the following: • `server-n` where *n*=1–16 • `switch-n` where *n*=1–6 • `cmc-active` • `chassis`
-l <*ledstate*>	Specifies whether the LED should blink. <*ledstate*> can be one of the following: • `0` — no blinking • `1` — blinking

Example for CMC

- `racadm setled -m server-1 -1 1`

  `LED state was set successfully.`

NOTE: The **setled** command generates an error when used on the extension slot of a multi-slot server.

- `racadm setled -m server-9 -1 1`

  `ERROR: Server in slot 9 is an extension of the server in slot 1.`

Example for iDRAC6

- `racadm setled -l 1`

  `LED state was set successfully.`

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setniccfg

NOTE: To use the **setniccfg** command, you must have **Configure iDRAC** permission.

Subcommand	Description
setniccfg	The **setniccfg** subcommand sets the iDRAC6 IP address. It displays an error message if the requested operation could not be performed, or a success message if the operation completed successfully.

NOTE: The terms NIC and Ethernet management port may be used interchangeably.

Synopsis

```
racadm setniccfg -d
racadm setniccfg -d6
racadm setniccfg -s <IPv4Address> <netmask> <IPv4 gateway>
racadm setniccfg -s6 <IPv6 Address> <IPv6 Prefix Length> <IPv6 Gateway>
racadm setniccfg -o
```

Table 2-34 describes the **setniccfg** subcommand options.

Table 2-34. setniccfg Subcommand Options

Option	Description
-d	Enables DHCP for the NIC (default is DHCP disabled).
-d6	Enables AutoConfig for the NIC. It is enabled by default.
-s	Enables static IP settings. The IPv4 address, netmask, and gateway can be specified. Otherwise, the existing static settings are used. <*IPv4Address*>, <*netmask*>, and <*gateway*> must be typed as dot-separated strings. `racadm setniccfg -s 192.168.0.120 255.255.255.0 192.168.0.1`
-s6	Enables static IPv6 settings. The IPv6 address, Prefix Length, and the IPv6 Gateway can be specified.

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setractime

NOTE: To use this subcommand, you must have **Administrator** privilege.

Subcommand	Description
setractime	Sets the date and time on the CMC.

Synopsis

```
racadm setractime -d <yyyymmddhhmmss.mmmmmmsoff>

racadm setractime [-l YYYYMMDDhhmmss] -z
{?|timezone|timezone-prefix*}
```

Table 2-35 describes the **setractime** subcommand options.

Table 2-35. setractime Subcommand Options

Option	Description
-d	Sets the time in the string *yyyymmddhhmmss.mmmmmmsoff* where: • *yyyy* is a the year • *mm* is the month • *dd* is the day • *hh* is the hour • *mm* is the minutes • *ss* is the seconds • *mmmmmm* is the number of microseconds • *s* is a + (plus) sign or a - (minus) sign, which indicates the sign of the offset • *off* is the offset in minutes **NOTE:** The *off* is the offset in minutes from GMT and must be in 15-minute increments. The timezone is represented as an offset from GMT, and the clock does not automatically adjust for daylight savings time (for '-d' option).

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Table 2-35. setractime Subcommand Options *(continued)*

Option	Description
-z <*zone*>	Sets the time zone by name or index, or lists possible time zones. <*zone*> may be: • <?> lists the major timezone names/prefixes • <timezone> is the case-sensitive name of your timezone or the index listed by '-z timezone-prefix*'. • <timezone-prefix*> is a prefix of one or more timezones, followed by '*'. **NOTE:** The timezone/daylight savings time is fully supported for '-l' and '-z' options. Omit the '-l' option to set the timezone only (eg. '-z US/Central').
-l	Sets the local date and time in the string *yyyymmddhhmmss* where: • *yyyy* is a the year • *mm* is the month • *dd* is the day • *hh* is the hour • *mm* is the minute • *ss* is the second **NOTE:** Setting the time using the -l and -z options is recommended. This command format allows the CMC to fully support local time zones, including the ability to automatically adjust the CMC time to the local Daylight Savings Time.

Example

The **setractime** subcommand supports dates ranging from 1/1/1970 00:00:00 through 12/31/2030 23:59:59. To set the date to October 24, 2007 at 3:02:30 PM PST:

```
racadm setractime -l 20071024150230 -z PST8PDT
The time was set successfully.
```


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setslotname

NOTE: To use this subcommand, you must have **Administrator** privilege.

NOTE: See the "Editing Slot Names" section in the *Dell Chassis Management Controller User Guide* for rules for selecting slot names.

Subcommand	Description
setslotname	Displays the name and hostname (if available) of all 16 slots, or of a specified slot (indicated by the slot number) in the chassis. Optionally, this command can be used to set whether the slot name or hostname is displayed in the CMC User Interface or with the **getslotname -i <slot ID>** command. If the hostname is not available, the static slot name is used.

NOTE: The OMSA server agent must be present and running on the server to use the Display Hostname feature. If the agent is not running, the setting is ignored. For more information, see the *Dell OpenManage Server Administrator User's Guide* at **dell.com/support/manuals**.

Synopsis

```
racadm setslotname -i <slotID> <slotname>

racadm setslotname -h <enabled>
```

Table 2-36 describes the **setslotname** subcommand options.

Table 2-36. setslotname Subcommand Options

Option	Description
<*slotID*>	Displays the location of the slot in the chassis. **Legal values:** 1–16
<*slotname*>	The new name to assign to the slot.
<*enabled*>	Sets whether the server's hostname is used for display purposes. 1 = enabled Legal values: 0, 1

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Example

```
racadm setslotname -i 3 mserver3
The slot name was set successfully.
```

setsysinfo

NOTE: To use this subcommand, you must have **Administrator** privilege.

Subcommand	Description
setsysinfo	Sets the name or location of the chassis.

Synopsis

```
racadm setsysinfo [-c chassisname|chassislocation]
<string>
```

Table 2-37 describes the **setsysinfo** subcommand options.

Table 2-37. setsysinfo Subcommand Options

Option	Description
<*string*>	Indicates a maximum of 64 non-extended ASCII chassis name or location.
-c	Sets the chassis name or location.

Example

```
racadm setsysinfo -c chassisname "Dell Rack System"
The chassis name was set successfully.
```


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sshpkauth

Subcommand	Description
sshpkauth	Enables you to upload and manage up to 4 different SSH public keys per user. You can upload a key file or key text, view keys, or delete keys.

This command has three mutually exclusive modes—upload, view, and delete that are determined by the options (see Table 2-38) provided for the command.

Synopsis

```
racadm sshpkauth
```

Upload

The upload mode allows you to upload a keyfile or to copy the key text on the command line. You cannot upload and copy a key at the same time.

Local and *Remote* RACADM:

```
racadm sshpkauth -i <2 to 16> -k <1 to 4> -f
<filename>

racadm sshpkauth -i <2 to 16> -k <1 to 4> -t

<key-text>
```

Telnet/ssh/serial RACADM:

```
racadm sshpkauth -i <2 to 16> -k <1 to 4> -t

<key-text>
```

View

The view mode allows the user to view a key specified by the user or all keys.

```
racadm sshpkauth -i <2 to 16> -v -k <1 to 4>

racadm sshpkauth -i <2 to 16> -v -k all
```


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Delete

The delete mode allows the user to delete a key specified by the user or all keys.

```
racadm sshpkauth -i <2 to 16> -d -k <1 to 4>
racadm sshpkauth -i <2 to 16> -d -k all
```

Table 2-38 describes the **sshpkauth** subcommand options.

Table 2-38. sshpkauth Subcommand Options

Option	Description
-i <*user index*>	Index for the user. <user index> must be between 2 to 16 on iDRAC6.
-k [<*key index*> | **all**]	Index to assign the PK key being uploaded. **all** only works with the **-v** or **-d** options. <key index> must be between 1 to 4 or **all** on iDRAC6.
-t <*PK Key Text*>	Key text for the SSH Public key.
-f <*filename*>	File containing the key text to upload. The **-f** option is not supported on Telnet/ssh/serial RACADM.
-v	View the key text for the index provided.
-d	Delete the key for the index provided.

Examples

Upload an invalid key to iDRAC6 User 2 in the first key space using a string:

```
$ racadm sshpkauth -i 2 -k 1 -t "This is invalid key
Text"
ERROR: Key text appears to be corrupt
```

Upload a valid key to iDRAC6 User 2 in the first key space using a file:

```
$ racadm sshpkauth -i 2 -k 1 -f pkkey.key
Key file successfully uploaded.
```

Get all keys for User 2 on iDRAC6:

```
$ racadm sshpkauth -v -i 2 -k all
********************* User ID 2 ******************
Key ID 1:
```


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```
ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAzzy+k2npnKqVEXGXIzo0sbR6J
gA5YNbWs3ekoxXV
fe3yJVpVc/5zrrr7XrwKbJAJTqSw8Dg3iR4n3vUaP+lPHmUv5Mn55
Ea6LHUslAXFqXmOdlThd
wilU2VLw/iRH1ZymUFnut8ggbPQgqV2L8bsUaMqb5PooIIvV6hy4i
sCNJU= 1024-bit RSA, converted from OpenSSH by
xx_xx@xx.xx
Key ID 2:
Key ID 3:
Key ID 4:
```

sslcertdownload

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

Subcommand	Description
sslcertdownload	Downloads an SSL certificate from iDRAC6 to the client's file system.

Synopsis

```
racadm sslcertdownload -t <type> [-f <filename>]
```

Table 2-39 describes the **sslcertdownload** subcommand options.

Table 2-39. sslcertdownload Subcommand Options

Option	Description
-t	Specifies the type of certificate to download, either the CA certificate for Directory Service or the server certificate. 1 = server certificate 2 = CA certificate for Directory Service 3 = KMS public certificate 4 = KMC public certificate **NOTE:** The current release does not support type 3 and 4.

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Table 2-39. sslcertdownload Subcommand Options

-f	Specifies the file name of the certificate to be uploaded. If the **-f** option or the filename is not specified, the **sslcert** file in the current directory is selected.

The **sslcertdownload** command returns `0` when successful and returns a nonzero number when unsuccessful.

Example

```
racadm sslcertdownload -t 1 -f c:\cert\cert.txt
```

sslcertupload

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

Subcommand	Description
sslcertupload	Uploads a custom SSL server or CA certificate for Directory Service from the client to iDRAC6.

Synopsis

```
racadm sslcertupload -t <type> [-f <filename>]
```


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Table 2-40 describes the **sslcertupload** subcommand options.

Table 2-40. sslcertupload Subcommand Options

Option	Description
-t	Specifies the type of certificate to upload, either the CA certificate for Directory Service or the server certificate. 1 = server certificate 2 = CA certificate for Directory Service 3 = KMS public certificate 4 = KMC public certificate **NOTE:** The current release does not support type 3 and 4.
-f	Specifies the file name of the certificate to be uploaded. If the file is not specified, the **sslcert** file in the current directory is selected.
-e	Allows for upload of multiple certificate format types. 1 = Base64 2 = PKCS12 **NOTE:** The current release does not support this option.
-p	Pin for decrypting the PKCS12 file uploaded. **NOTE:** If *<format type>* is selected as 2 it is mandatory to specify -p option. **NOTE:** The current release does not support this option

The **sslcertupload** command returns `0` when successful and returns a nonzero number when unsuccessful.

Example

```
racadm sslcertupload -t 1 -f c:\cert\cert.txt
```


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sslcertview

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

Subcommand	Description
sslcertview	Displays the SSL server or CA certificate that exists on iDRAC6.

Synopsis

```
racadm sslcertview -t <type> [-A]
```

Table 2-41 describes the **sslcertview** subcommand options.

NOTE: The current release does not support type 3 and 4 -t options.

Table 2-41. sslcertview Subcommand Options

Option	Description
-t	Specifies the type of certificate to view, either the CA certificate or server certificate. 1 = server certificate 2 = CA certificate for Directory Service 3 = KMS public certificate 4 = KMC public certificate **NOTE:** The current release does not support type 3 and 4.
-A	Prevents printing headers/labels.

Sample Output

```
racadm sslcertview -t 1

Serial Number             : 00

Subject Information:
Country Code (CC)         : US
State (S)                 : Texas
Locality (L)              : Round Rock
```


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```
Organization (O)          : Dell Inc.
Organizational Unit (OU)  : Remote Access Group
Common Name (CN)          : iDRAC6 default certificate

Issuer Information:
Country Code (CC)         : US
State (S)                 : Texas
Locality (L)              : Round Rock
Organization (O)          : Dell Inc.
Organizational Unit (OU)  : Remote Access Group
Common Name (CN)          : iDRAC6 default certificate

Valid From                : Jul  8 16:21:56 2005 GMT
Valid To                  : Jul  7 16:21:56 2010 GMT
```

```
racadm sslcertview -t 1 -A
00
US
Texas
Round Rock
Dell Inc.
Remote Access Group
iDRAC6 default certificate
US
Texas
Round Rock
Dell Inc.
Remote Access Group
iDRAC6 default certificate
Jul 8 16:21:56 2005 GMT
Jul 7 16:21:56 2010 GMT
```


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sslcsrgen

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

Subcommand	Description
sslcsrgen	Can be used to generate a CSR and download the file to the client's local file system. The CSR can be used for creating a custom SSL certificate that can be used for SSL transactions on iDRAC6.

Synopsis

```
racadm sslcsrgen [-g] [-f <filename>]

racadm sslcsrgen -s
```

Table 2-42 describes the **sslcsrgen** subcommand options.

NOTE: The **-f** option is not supported for the serial/Telnet/ssh console.

Table 2-42. sslcsrgen Subcommand Options

Option	Description
-g	Generates a new CSR.
-s	Returns the status of a CSR generation process (generation in progress, active, or none).
-f	Specifies the filename of the location, <*filename*>, where the CSR is downloaded.
-t	Specifies the type of certificate to view, either the CA certificate or server certificate. 1 = webserver CSR - enables you to generate a CSR for the webcertificate server certificate. 2 = KMC certificate - enables you to generate a CSR for the KMC certificate and a CA certificate for Directory Service. **NOTE:** The current release does not support type 2.

NOTE: If the **-f** option is not specified, the filename defaults to **sslcsr** in your current directory.

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If no options are specified, a CSR is generated and downloaded to the local file system as **sslcsr** by default. The **-g** option cannot be used with the **-s** option, and the **-f** option can only be used with the **-g** option.

The **sslcsrgen -s** subcommand returns one of the following status codes:

- CSR was generated successfully.
- CSR does not exist.
- CSR generation in progress.

NOTE: Before a CSR can be generated, the CSR fields must be configured in the RACADM **cfgRacVirtual** group. For example:

```
racadm config -g cfgRacSecurity -o
cfgRacSecCsrCommonName MyCompany
```

NOTE: In telnet/ssh console, you can only generate and not download the CSR file.

Examples

```
racadm sslcsrgen -s
```

or

```
racadm sslcsrgen -g -f c:\csr\csrtest.txt
```

sslkeyupload

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

Subcommand	Description
sslkeyupload	Uploads SSL key from the client to iDRAC6.

Synopsis

```
racadm sslkeyupload -t <type> -f <filename>
```


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Table 2-43 describes the **sslkeyupload** subcommand options.

Table 2-43. sslkeyupload Subcommand Options

Option	Description
-t	Specifies the key to upload. 1 = SSL key used to generate the server certificate
-f	Specifies the file name of the SSL key to be uploaded.

The **sslkeyupload** command returns `0` when successful and returns a nonzero number when unsuccessful.

Example

```
racadm sslkeyupload -t 1 -f c:\sslkey.txt
```

sslresetcfg

NOTE: To use this subcommand, you must have **Chassis Configuration Administrator** privilege for CMC and **Configure iDRAC** permission for iDRAC.

Subcommand	Description
sslresetcfg	Restores the web-server certificate to factory default and restarts web-server. The certificate takes effect 30 seconds after the command is entered.

Synopsis

```
racadm sslresetcfg
```

Example

- `$ racadm sslresetcfg`

  ```
  Certificate generated successfully and webserver
  restarted.
  ```

NOTE: For more information on managing SSL certificates, see the "Securing CMC Communications Using SSL and Digital Certificates" section in the *Dell Chassis Management Controller User Guide*.

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testemail

Subcommand	Description
testemail	Sends a test e-mail from iDRAC6 to a specified destination. Prior to executing the test e-mail command, ensure that the SMTP server is configured and the specified index in the RACADM cfgEmailAlert group is enabled and configured properly. See "cfgEmailAlert" on page 176 for more information.

Synopsis

```
racadm testemail -i <index>
```

Table 2-44 provides a list and associated commands for the **cfgEmailAlert** group.

Table 2-44. testemail Configuration

Action	Command
Enable the alert	`racadm config -g cfgEmailAlert -o cfgEmailAlertEnable -i 1 1`
Set the destination e-mail address	`racadm config -g cfgEmailAlert -o cfgEmailAlertAddress -i 1 user1@mycompany.com`
Set the custom message that is sent to the destination e-mail address	`racadm config -g cfgEmailAlert -o cfgEmailAlertCustomMsg -i 1 "This is a test!"`
Ensure that the SMTP IP address is configured properly	`racadm config -g cfgRemoteHosts -o cfgRhostsSmtpServerIpAddr 192.168.0.152`
View the current e-mail alert settings	`racadm getconfig -g cfgEmailAlert -i <index>` where `<index>` is a number from 1 to 4

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Table 2-45 describes the **testemail** subcommand options.

Table 2-45. testemail Subcommands

Option	Description
-i	Specifies the index of the e-mail alert to test.

Output

Success: Test e-mail sent successfully

Failure: Unable to send test e-mail

testfeature

Subcommand	Description
testfeature	Generic test command consisting of several sub-commands that allow you to verify the configuration and operation of specific features.

Table 2-46 describes the **testfeature** subcommand options.

Table 2-46. testfeature Subcommand Options

Option	Description
-f *<feature>*	Specifies the feature name. **testfeature** supports the following features: • ad — Tests Active Directory configuration using simple authentication (user name and password) • adkrb — Tests Active Directory configuration using Kerberos authentication • ldap — Tests LDAP configuration and operation (requires user name and password)
-u *<username>*	The user name specified in an appropriate format for the selected authentication method. That is, Active Directory users are specified as user_name@domain_name.
-p *<password>*	The password for the indicated user account.

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Table 2-46. testfeature Subcommand Options

Option	Description
-d <*bitmask*>	A bitmask (specified as a hexadecimal value) to select various diagnostic messaging levels. This option is optional. **NOTE:** -d option is not supported with the remote racadm interface.

Subcommands

testfeature -f ad

Synopsis

```
testfeature -f ad -u <username> -p <password> [-d
<diagnostic-message-level>]
```

This subcommand tests Active Directory configuration using simple authentication (user name and password). Use the optional `-d` switch to obtain additional diagnostic information, as needed.

This subcommand when executed performs the following:

- Checks command syntax.
- Verifies whether the required system resources are available.
- Validates Active Directory configuration.
- Verifies the SSL certificate and if the certificate signing request (key) exists.
- Acquires LDAP and Global Catalog Service records from DNS.
- Acquires user privileges from the Active Directory server.
- Checks the time to acquire user privileges with the allotted time to login.

NOTE: In the event of an error, the command displays the test that failed and all the the tests performed earlier to the test that failed, including all the error messages.

Examples

- `testfeature –f ad –u user@domain –p secret`

  `SUCCESSFUL: User permissions are xxxxxppp`

  NOTE: The last three digits are the user's permissions.

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- `testfeature –f adkrb –u user_name@domain_name`
  `SUCCESSFUL: User permissions are 80000fff`
- `testfeature -f ldap -u harold -p barrel`
  `SUCCESSFUL: User permissions are 0x00000fff`

testfeature -f adkrb

Synopsis

```
testfeature -f adkrb -u <username> [-d <diagnostic-
message-level>]
```

This subcommand tests the Active Directory configuration using Kerberos authentication (single sign-on or Smart Card login). Use the optional **-d** switch to obtain additional diagnostic information, as needed. This subcommand when executed performs the following:

- Checks command syntax.
- Verifies if the required system resources are available.
- Validates Active Directory configuration.
- Verifies if the SSL certificate and certificate signing request (key) exists.
- Acquires LDAP and Global Catalog Service records from DNS.
- Verifies if the CMC can acquire CMC, LDAP and Global Catalog servers FQDN through reverse IP lookups.
- Verifies that the CMC principal name matches the principal name in the uploaded Keytab file.
- Verifies that the CMC acquires a Kerberos TGT.
- Acquires user privileges from the Active Directory server.
- Checks the time to acquire user privileges with the allotted time to login.

NOTE: In the event of an error, the command outputs all tests performed up to and including the test that failed, as well as all error messages.

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testfeature -f ldap

Synopsis

```
testfeature -f ldap -u <username> -p <password> [-d
<diagnostic-message-level>]
```

This subcommand tests LDAP configuration and operation, and reports success as each stage of the authentication process proceeds. On successful completion, this command prints the CMC privileges assumed by the specified <username>.

If a failure occurs, the command terminates with an error message that displays the required corrective action. Use the optional **-d** switch to obtain additional diagnostic information, as needed.

testtrap

NOTE: To use this subcommand, you must have **Test Alerts** permission.

Subcommand	Description
testtrap	Tests the RAC's SNMP trap alerting feature by sending a test trap from iDRAC6 to a specified destination trap listener on the network.

For iDRAC6 only, before you execute the **testtrap** subcommand, ensure that the specified index in the RACADM **cfgIpmiPet** group is configured properly. For more information, see "cfgIpmiPet" on page 237.

Table 2-47 provides a list and associated commands for the **cfgIpmiPet** group.

NOTE: The **cfgIpmiPet** group is applicable only for iDRAC6.

Table 2-47. cfgIpmiPet Commands

Action	Command
Enable the alert	`racadm config -g cfgIpmiPet -o cfgIpmiPetAlertEnable -i 1 1`
Set the destination e-mail IP address	`racadm config -g cfgIpmiPet -o cfgIpmiPetAlertDestIpAddr -i 1 192.168.0.110`

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Table 2-47. cfgIpmiPet Commands

Action	Command
View the current test trap settings	`racadm getconfig -g cfgIpmiPet -i <index>` where `<index>` is a number from 1 to 4

Synopsis

```
racadm testtrap -i <index>
```

Table 2-48 describes the **testtrap** subcommand options.

Table 2-48. testtrap Subcommand Options

Option	Description
-i	Specifies the index of the trap configuration to use for the test Valid values are from 1 to 4.

traceroute

NOTE: To use this subcommand, you must have **Administrator** permission.

Subcommand	Description
traceroute	Traces the network path of routers that packets take as they are forwarded from your system to a destination IPv4 address.

Synopsis

```
racadm traceroute <IPv4 address>

racadm traceroute 192.168.0.1

traceroute to 192.168.0.1 (192.168.0.1), 30 hops max,
40 byte packets
1 192.168.0.1 (192.168.0.1) 0.801 ms 0.246 ms 0.253 ms
```


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traceroute6

NOTE: To use this subcommand, you must have **Administrator** permission.

Subcommand	Description
traceroute6	Traces the network path of routers that packets take as they are forwarded from your system to a destination IPv6 address.

Synopsis

```
racadm traceroute6 <IPv6 address>
```

```
racadm traceroute fd01::1
```

```
traceroute to fd01::1 (fd01::1) from fd01::3, 30 hops
max, 16 byte packets
1 fd01::1 (fd01::1) 14.324 ms 0.26 ms 0.244 ms
```

usercertupload

NOTE: To use this subcommand, you must have **Configure iDRAC** permission

NOTE: This option is applicable only to iDRAC6..

Subcommand	Description
usercertupload	Uploads a user certificate or a user CA certificate from the client to iDRAC6.

Synopsis

```
racadm usercertupload -t <type> [-f <filename>] -i
<index>
```

Table 2-49 describes the **usercertupload** subcommand options.

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Table 2-49. usercertupload Subcommand Options

Option	Description
-t	Specifies the type of certificate to upload, either the CA certificate or server certificate. 1 = user certificate 2 = user CA certificate
-f	Specifies the file name of the certificate to be uploaded. If the file is not specified, the **sslcert** file in the current directory is selected.
-i	Index number of the user. Valid values 1-16.

The **usercertupload** command returns `0` when successful and returns a nonzero number when unsuccessful.

Example

```
racadm usercertupload -t 1 -f c:\cert\cert.txt -i 6
```


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usercertview

NOTE: To use this subcommand, you must have **Configure iDRAC** permission.

NOTE: This option is applicable only to iDRAC6.

Subcommand	Description
usercertview	Displays the user certificate or user CA certificate that exists on iDRAC6.

Synopsis

```
racadm usercertview -t <type> [-A] -i <index>
```

Table 2-50 describes the **sslcertview** subcommand options.

Table 2-50. sslcertview Subcommand Options

Option	Description
-t	Specifies the type of certificate to view, either the user certificate or the user CA certificate. 1 = user certificate 2 = user CA certificate
-A	Prevents printing headers/labels.
-i	Index number of the user. Valid values are 1-16.

version

NOTE: This option is applicable only for iDRAC6.

Subcommand	Description
version	Displays the RACADM version information.

Synopsis

```
racadm version
```


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vflashsd

NOTE: To use this subcommand, you must have **Access Virtual Media** privilege

NOTE: This option is applicable only to iDRAC6..

Subcommand	Description
vflashsd	Allows you to initialize or get the status of the vFlash SD card. The initialize operation removes all existing partitions and resets the card. The status operation displays the status of the last operation performed on the card.

Synopsis

```
racadm vflashsd initialize
racadm vflashsd status
```

vflashpartition

NOTE: To use this subcommand, you must have **Access Virtual Media** privilege.

NOTE: This option is applicable only to iDRAC6.

Subcommand	Description
vflashpartition	Allows you to perform the following: • Create an empty partition • Create a partition using an image file • Format a partition • View available partitions • Delete existing partitions • Get the status of partitions

NOTE: Create partition using image file is not supported in local RACADM.

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Synopsis

```
racadm vflashpartition create <options>
racadm vflashpartition delete <options>
racadm vflashpartition status <options>
racadm vflashpartition list <options>
```

Table 2-51 describes the vflashpartition subcommand options.

Table 2-51. vflashpartition Subcommand Options

Option	Description
-i <*index*>	Index of the partition for which this command applies. <*index*> must be an integer from 1 to 16. **NOTE:** For the standard SD card, the index value is 1 because only one partition of size 256 MB is supported.
Options valid only with create action	
-o <*label*>	Label that is displayed when the partition is mounted on the operating system. <*label*> must be a string up to six alphanumeric characters.
-e <*type*>	Emulation type for the partition. <*type*> must be floppy, cddvd, or HDD.

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Table 2-51. vflashpartition Subcommand Options *(continued)*

Option	Description

-t <*type*>	Create a partition of type <type>. <type> must be:
	• empty – Create an empty partition. The following options are valid with the empty type:
	  • -s <*size*> – Partition size in MB.
	  • -f <*type*> – Format type for the partition based on the type of file system. Valid options are RAW, FAT16, FAT32, EXT2, or EXT3.
	• image – Create a partition using an image relative to iDRAC. The following options are valid with the image type:
	  • -l <*path*> – Specifies the remote path relative to iDRAC. The path can be on a mounted drive:
	  SMB path: //<*ip or domain*>/<*share_name*> /<*path_to_image*>
	  NFS path: <*ipaddress*>:/<*path_to_image*>
	  • -u <*user*> – Username for accessing the remote image.
	  • -p <*password*> – Password for accessing the remote image.

Options valid only with status action	
-a	Displays the status of operations on all existing partitions.

Examples

- To create a 20MB empty partition:

```
racadm vflashpartition create -i 1 -o drive1 -t
empty -e HDD -f fat16 -s 20
```

- To create a partition using an image file on a remote system:

```
racadm vflashpartition create –i 1 –o drive1 –e
HDD –t image –l //myserver/sharedfolder/foo.iso –u
root –p mypassword
```

NOTE: This command is case sensitive for the image file name extension. If the file name extension is in upper case, for example FOO.ISO instead of FOO.iso, then the command returns a syntax error.

- To delete a partition:

```
racadm vflashpartition delete -i 1
```


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- To delete all partitions, re-initialize the vFlash SD card:

  ```
  racadm vflashsd initialize
  ```

- To get the status of operation on partition 1:

  ```
  racadm vflashpartition status -i 1
  ```

- To get the status of all existing partitions:

  ```
  racadm vflashpartition status -a
  ```

- To list all existing partitions and its properties:

  ```
  racadm vflashpartition list
  ```

- To get the partition size:

  ```
  racadm getconfig –g cfgvflashpartition –o
  cfgvflashpartitionsize –i 1
  ```

- To display the emulation type:

  ```
  racadm getconfig –g cfgvflashpartition –I 1 –o
  cfgvflashpartitionemulatiotype
  ```

- To display the label for the partition that is visible to the operating system:

  ```
  racadm getconfig –g cfgvflashpartition  –i 1 –o
  cfgvflashPartitionlabel
  ```

- To display the format type of the partition:

  ```
  racadm getconfig –g cfgvflashpartition  –i 1 –o
  cfgvflashPartitionFormatType
  ```

- To change a read-only partition to read-write:

  ```
  racadm config –g cfgvflashpartition  –i 1 –o
  cfgvflashPartitionAccessType 1
  ```

- To attach a partition to the host operating system:

  ```
  racadm config –g cfgvflashpartition  –i 1 –o
  cfgvflashPartitionAttachState 1
  ```


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vmdisconnect

NOTE: To use this subcommand, you must have **Access Virtual Media** permission.

NOTE: This option is applicable only to iDRAC6.

Subcommand	Description
vmdisconnect	Allows a user to disconnect another user's Virtual Media session. Once disconnected, the Web-based interface reflects the correct connection status. Enables a iDRAC6 user to disconnect all active Virtual Media sessions. The active Virtual Media sessions can be displayed in iDRAC6 Web-based interface or by using the RACADM subcommands such as **remoteimage** or **getssninfo**.

Synopsis

```
racadm vmdisconnect
```

vmkey

NOTE: To use this subcommand, you must have **Access Virtual Media** permission

NOTE: This option is applicable only to iDRAC6..

Subcommand	Description
vmkey	When a custom Virtual Media key image is uploaded to the RAC, the key size becomes the image size. The vmkey subcommand can be used to reset the key back to its original default size, which is 256 MB on iDRAC6.

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Synopsis

`racadm vmkey <action>`

If `<action>` is configured as `reset`, the vFlash memory is reset to the default size of 256 MB and removes all data from it.

NOTE: This command is deprecated from iDRAC6 1.5 and iDRAC6 3.0 releases onwards. The functionality of this command is now covered by `vflashsd initialize`. While execution of the `vmkey reset` command is successful, it is recommended to use the `vflashsd initialize` command. For more information, see "vflashsd" on page 145.

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3

iDRAC6 and CMC Property Database Group and Object Descriptions

The iDRAC6 and CMC property database contains the configuration information for iDRAC6 and CMC. Data is organized by associated object, and objects are organized by object group. The IDs for the groups and objects that the property database supports are listed in this section for iDRAC6 Enterprise on Blade Servers, iDRAC6 Enterprise or Express on Rack and Tower Servers and CMC.

Use the group and object IDs with the RACADM subcommands to configure iDRAC6 and CMC.

Table 3-1 provides an overview of the object groups applicable for iDRAC6 Enterprise on Blade Servers, iDRAC6 on Rack and Tower Servers and CMC.

CAUTION: Racadm sets the value of objects without performing any functional validation on them. For example, RACADM allows you to set the Certificate Validation object to 1 with the Active Directory object set to 0, even though Certificate Validation can happen only if Active Directory is enabled. Similarly, the cfgADSSOEnable object can be set to 0 or 1 even if the cfgADEnable object is 0, but it takes effect only if Active Directory is enabled.

All string values are limited to displayable ASCII characters, except where otherwise noted.

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Displayable Characters

Displayable characters include the following set:

```
abcdefghijklmnopqrstuvwxwz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789~`!@#$%^&*()_+-={}[]|\:";'<>,.?/
```

Table 3-1 lists the supported object groups.

Table 3-1. Supported Object Groups

Subcommand	iDRAC6 on Blade Servers	iDRAC6 on Rack and Tower Servers	CMC
idRacInfo	✓	✓	✓
cfgLanNetworking	✓	✓	✓
cfgRemoteHosts	✓	✓	✓
cfgUserAdmin	✓	✓	✓
cfgEmailAlert	✓	✓	✓
cfgSessionManagement	✓	✓	✓
cfgSerial	✗	✓	✓
cfgOobSnmp	✓	✓	✓
cfgTraps	✗	✗	✓
cfgRacTuning	✓	✓	✓
ifcRacManagedNodeOs	✓	✓	✗
cfgRacSecurity	✗	✗	✓
cfgRacSecurityData	✓	✓	✓
cfgRacVirtual	✓	✓	✗
cfgServerInfo	✗	✓	✓

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Table 3-1. Supported Object Groups *(continued)*

Subcommand	iDRAC6 on Blade Servers	iDRAC6 on Rack and Tower Servers	CMC
cfgActiveDirectory	✓	✓	✓
cfgLDAP	✓	✓	✓
cfgLdapRoleGroup	✓	✓	✓
cfgStandardSchema	✓	✓	✓
cfgChassisPower	✗	✗	✓
cfgIpmiSol	✓	✓	✗
cfgIpmiLan	✓	✓	✗
cfgIpmiPetIpv6	✓	✓	✗
cfgIpmiPef	✓	✓	✗
cfgIpmiPet	✓	✓	✗
cfgUserDomain	✓	✓	✗
cfgServerPower	✓	✓	✗
cfgKVMInfo	✗	✗	✓
cfgAlerting	✗	✗	✓
cfgServerPowerSupply	✗	✓	✗
cfgIPv6LanNetworking	✓	✓	✓
cfgCurrentLanNetworking (Read only)	✗	✗	✓
cfgCurrentIPv6LanNetworking (Read only)	✗	✗	✓
cfgIPv6URL	✓	✓	✗
cfgIpmiSerial	✗	✓	✗

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Table 3-1. Supported Object Groups *(continued)*

Subcommand	iDRAC6 on Blade Servers	iDRAC6 on Rack and Tower Servers	CMC
cfgSmartCard	✓	✓	✗
cfgNetTuning	✗	✓	✓
cfgSensorRedundancy	✗	✓	✗
cfgVFlashSD	✓	✓	✗
cfgVFlashPartition	✓	✓	✗
cfgLogging	✓	✓	✗
cfgKMSProfile	✓	✓	✗

✓ = Supported; ✗=Not supported

idRacInfo

This group contains display parameters to provide information about the specifics of iDRAC6 or CMC being queried. One instance of the group is allowed.

NOTE: For CMC, use this object with the **getconfig** subcommand.

NOTE: To use this object for CMC, you must have **CMC Login User** privilege.

The following sections provides information about the objects in the **idRACInfo** group.

idRacProductInfo (Read Only)

Description	A text string that identifies the product.
Legal Values	A string of up to 63 ASCII characters.
Default for iDRAC	Integrated Dell Remote Access Controller.
Default for CMC	Chassis Management Controller.

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idRacDescriptionInfo (Read Only)

Description	A text description of the RAC type.
Legal Values	A string of up to 255 ASCII characters.
Default	This system component provides a complete set of remote management functions for Dell PowerEdge servers.

idRacVersionInfo (Read Only)

Description	String containing the current product firmware version.
Legal Values	A string of up to 63 ASCII characters.
Default	The current version number.

idRacBuildInfo (Read Only)

Description	String containing the current RAC firmware build version.
Legal Values	A string of up to 16 ASCII characters.
Default for iDRAC	The current iDRAC6 firmware build version.
Default for CMC	The current CMC firmware build version.

idRacName (Read Only)

Description	A user-assigned name to identify this controller.
Legal Values	A string of up to 15 ASCII characters.
Default for iDRAC	iDRAC
Default for CMC	CMC

idRacType (Read Only)

Description	Identifies the remote access controller type as iDRAC6.
Legal Values	Product ID
Default	For iDRAC6 on Rack and Servers: 10 For iDRAC6 Enterprise on Blade Servers: 8

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Example

```
racadm getconfig -g idRacInfo

# idRacType=8
# idRacProductInfo=Chassis Management Controller
# idRacDescriptionInfo=This system component provides
a complete set of remote management functions for
blade servers
# idRacVersionInfo=P21
# idRacBuildInfo=200708301525
# idRacName=CMC-1
```

cfgLanNetworking

This group contains parameters to configure iDRAC6 or CMC NIC.

One instance of the group is allowed. Some objects in this group may require iDRAC6 NIC to be reset, which may cause a brief loss in connectivity. Objects that change iDRAC6 NIC IP address settings closes all active user sessions and require users to reconnect using the updated IP address settings.

NOTE: For CMC, use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the -o option.

NOTE: For any network property changes on iDRAC6 to be successfully executed through RACADM, you must first enable iDRAC6 NIC.

The following sections provides information about the objects in the **cfgLanNetworking** group.

cfgNicIPv4Enable (Read/Write)

Description	Enables or disables iDRAC6 or CMC IPv4 stack.
Legal Values	1 (TRUE)
	0 (FALSE)
Default	1

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cfgNicSelection (Read/Write)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

Description	Specifies the current mode of operation for the RAC network interface controller (NIC). Table 3-2 describes the supported modes.
Legal Values	0 = Shared 1 = Shared with Failover LOM2 2 = Dedicated 3 = Shared with Failover All LOMs (iDRAC6 Enterprise only)
Default	0 (iDRAC6 Express) 2 (iDRAC6 Enterprise)

Table 3-2 lists the supported **cfgNicSelection** modes.

Table 3-2. cfgNicSelection Supported Modes

Mode	Description
Shared	Used if the host server integrated NIC is shared with the RAC on the host server. This mode enables configurations to use the same IP address on the host server and the RAC for common accessibility on the network.
Shared with Failover: LOM 2	Enables teaming capabilities between host server LOM2 integrated network interface controllers.
Dedicated	Specifies that the RAC NIC is used as the dedicated NIC for remote accessibility.

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Table 3-2. cfgNicSelection Supported Modes *(continued)*

Mode	Description
Shared with Failover All LOMs	Enables teaming capabilities between all LOMs on the host server integrated network interface controllers. The remote access device network interface is fully functional when the host operating system is configured for NIC teaming. The remote access device receives data through NIC 1 and NIC 2, but transmits data only through NIC 1. Failover occurs from NIC 2 to NIC 3 and then to NIC 4. If NIC 4 fails, the remote access device fails over all data transmission back to NIC 1, but only if the original NIC 1 failure has been corrected.

cfgNicVLanEnable (Read/Write)

NOTE: For iDRAC6 Enterprise on Blade Servers, this object is read-only and VLAN settings can be configured through CMC Web Interface. iDRAC6 displays only the current VLAN settings and you cannot modify the settings from iDRAC6.

Description Enables or disables the VLAN capabilities of the RAC/BMC.

NOTE: For iDRAC6 Enterprise on Blade Servers, this object enables or disables the VLAN capabilities of iDRAC6 from CMC.

All chassis management traffic, including the CMC and all iDRACs, resides on this external VLAN when enabled. No iDRAC configuration change is required to use this external management network VLAN.

Legal Values 1 (TRUE)

0 (FALSE)

Default 0

Example

```
racadm config -g cfgLanNetworking -o
cfgNicVLanEnable 1

racadm config -g cfgLanNetworking -o
cfgNicVLanEnable 0
```


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cfgNicVLanId (Read/Write)

Description	Specifies the VLAN ID for the network VLAN configuration (in CMC for iDRAC6 Enterprise on Blade Servers). This property is only valid if **cfgNicVLanEnable** is set to 1 (enabled).
Legal Values	1 – 4000 and 4021 – 4094
Default	1
Example	`racadm config -g cfgLanNetworking -o cfgNicVlanID 1`

cfgNicVLanPriority (Read/Write)

Description	Specifies the VLAN Priority for the network VLAN configuration (in CMC for iDRAC6 Enterprise on Blade Servers). This property is only valid if **cfgNicVLanEnable** is set to 1 (enabled).
Legal Values	0-7
Default	0
Example	`racadm config -g cfgLanNetworking -o cfgNicVLanPriority 7`

cfgDNSDomainNameFromDHCP (Read/Write)

Description	Specifies that iDRAC or CMC DNS domain name should be assigned from the network DHCP server.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

For CMC, this property is used only if cfgNicUseDhcp is set to 1 (true), or if both **cfgIPv6Enable** and **cfgIPv6AutoConfig** are set to 1 (true).

The CMC can obtain its DNS domain name from either a DHCP or DHCPv6 server, if all of the following properties are set to 1 (true):

- cfgNicIPv4Enable
- cfgNicUseDhcp

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- cfgIPv6Enable
- cfgIPv6AutoConfig
- cfgDNSDomainNameFromDHCP
- cfgDNSDomainName (Read/Write)

The network administrator must ensure that these DHCP servers are configured to provide the same DNS domain name to the CMC, otherwise the domain name becomes unpredictable.

cfgDNSDomainName (Read/Write)

Description	This is the DNS domain name. This parameter is only valid if **cfgDNSDomainNameFromDHCP** is set to 0 (FALSE).
Legal Values	A string of up to 254 ASCII characters. At least one of the characters must be alphabetic. Characters are restricted to alphanumeric, '-', and '.'. **NOTE:** Microsoft Active Directory only supports Fully Qualified Domain Names (FQDN) of 64 bytes or fewer.
Default	<blank>

cfgDNSRacName (Read/Write)

Description	Displays the iDRAC6 or CMC name, which is rac-*service tag* by default. This parameter is only valid if **cfgDNSRegisterRac** is set to 1 (TRUE).
Legal Values	A string of up to 63 ASCII characters. At least one character must be alphabetic. **NOTE:** Some DNS servers only register names of 31 characters or fewer.
Default	For iDRAC: idrac-<service tag> For CMC: cmc-<service tag>

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cfgDNSRegisterRac (Read/Write)

Description	Registers the iDRAC6 or CMC name on the DNS server. When you set this parameter, the CMC registers its DNS name for its IPv4 and IPv6 addresses with the DNS server.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

NOTE: For IPv6, only the DHCPv6 address or static address is registered.

Example:

```
racadm getconfig -g cfgLanNetworking
cfgNicEnable=1
cfgNicIPv4Enable=1
cfgNicIpAddress=192.168.22.101
cfgNicNetmask=255.255.255.0
cfgNicGateway=192.168.22.101
cfgNicUseDhcp=1
# cfgNicMacAddress=00:00:00:00:00:01
cfgNicVLanEnable=0
cfgNicVLanID=1
cfgNicVLanPriority=0
cfgDNSServersFromDHCP=1
cfgDNSServer1=192.168.0.5
cfgDNSServer2=192.168.0.6
cfgDNSRacName=cmc-frankly
cfgDNSDomainName=fwad.lab
cfgDNSDomainNameFromDHCP=1
cfgDNSRegisterRac=1
```


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cfgDNSServersFromDHCP (Read/Write)

Description	Specifies if the DNS server IPv4 addresses should be assigned from the DHCP server on the network. For CMC, this property is used only if **cfgNicUseDhcp** is set to 1 (true).
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgDNSServer1 (Read/Write)

Description	Specifies the IPv4 address for DNS server 1. This property is only valid if **cfgDNSServersFromDHCP** is set to **0** (FALSE). **NOTE: cfgDNSServer1** and **cfgDNSServer2** may be set to identical values while swapping addresses.
Legal Values	String representing a valid IPv4 address. For example: 192.168.0.20.
Default	0.0.0.0

cfgDNSServer2 (Read/Write)

Description	Retrieves the IPv4 address for DNS server 2. This parameter is only valid if **cfgDNSServersFromDHCP** is set to 0 (FALSE). **NOTE: cfgDNSServer1** and **cfgDNSServer2** may be set to identical values while swapping addresses.
Legal Values	String representing a valid IPv4 address. For example: 192.168.0.20.
Default	0.0.0.0

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cfgNicEnable (Read/Write)

Description	Enables or disables iDRAC6 or CMC network interface controller. If the NIC is disabled, the remote network interfaces to iDRAC6 or CMC are no longer accessible and iDRAC6 or CMC are only available through the local or serial RACADM interface.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgNicIpAddress (Read/Write)

NOTE: This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0(FALSE).

Description	Specifies the static IPv4 address to be assigned to the RAC or CMC. This property is only valid if **cfgNicUseDhcp** is set to **0** (FALSE).
Legal Values	String representing a valid IPv4 address. For example: 192.168.0.20.
Default	For iDRAC6 on Rack and Tower Servers: 192.168.0.120 For iDRAC6 Enterprise on Blade Servers: 192.168.0.*n*, where *n* is 120 plus the server slot number. For CMC: 192.168.0.120

cfgNicNetmask (Read/Write)

NOTE: This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0 (FALSE).

Description	The subnet mask used for iDRAC6 or CMC IP address. This property is only valid if **cfgNicUseDhcp** is set to **0** (FALSE).
Legal Values	String representing a valid subnet mask. For example: 255.255.255.0.
Default	255.255.255.0

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cfgNicGateway (Read/Write)

NOTE: This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0 (FALSE).

Description	iDRAC6 or CMC gateway IPv4 address. The gateway IPv4 address used for static assignment of the RAC IP address. This property is only valid if **cfgNicUseDhcp** is set to 0 (FALSE).
Legal Values	String representing a valid gateway IPv4 address. For example: 192.168.0.1.
Default	192.168.0.1

cfgNicUseDhcp (Read/Write)

Description	Specifies whether DHCP is used to assign the iDRAC6 or CMC IPv4 address. If this property is set to 1 (TRUE), then iDRAC6 or CMC IPv4 address, subnet mask, and gateway are assigned from the DHCP server on the network. If this property is set to 0 (FALSE), the user can configure the **cfgNicIpAddress**, **cfgNicNetmask**, and **cfgNicGateway** properties.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgNicMacAddress (Read Only)

Description	The iDRAC6 or CMC NIC MAC address in the format: dd:dd:dd:dd:dd:dd, where d is a hexadecimal digit in range 0 - 9, A - F
Legal Values	String representing iDRAC6 or CMC NIC MAC address.
Default	The current MAC address of iDRAC6 or CMC NIC. For example, 00:12:67:52:51:A3.

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cfgRemoteHosts

This group provides properties that allow configuration of the SMTP server for e-mail alerts.

For CMC, this group enables/disables and configures firmware updates, NTP, remote syslogging, and SMTP email alerting. Use the -m option to apply this setting to iDRAC.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

The following sections provides information about the objects in the **cfgRemoteHosts** group.

cfgRhostsFwUpdateTftpEnable (Read/Write)

Description	Enables or disables iDRAC6 or CMC firmware update from a network TFTP server.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgRhostsFwUpdateIpAddr (Read/Write)

Description	Specifies the network TFTP server IPv4 or IPv6 address that is used for TFTP iDRAC6 or CMC firmware update operations.
Legal Values	A string representing a valid IPv4 or IPv6 address. For example, `192.168.0.61`
Default	For IPv4, it is 0.0.0.0

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cfgRhostsFwUpdatePath (Read/Write)

Description	Specifies TFTP path where iDRAC6 or CMC firmware image file exists on the TFTP server. The TFTP path is relative to the TFTP root path on the TFTP server. **NOTE:** The server may still require you to specify the drive (for example, **C:**).
Legal Values	A string with a maximum length of 255 ASCII characters.
Default	<blank>

cfgRhostsSmtpServerIpAddr (Read/Write)

Description	The IPv4 or IPv6 address of the network SMTP server. The SMTP server transmits e-mail alerts from iDRAC6 or CMC if the alerts are configured and enabled.
Legal Values	A string representing a valid SMTP server IPv4 or IPv6 address. For example: 192.168.0.55.
Default	For iDRAC6: For IPv4, it is 0.0.0.0 For CMC: localhost.localdomain

cfgRhostsNtpEnable

NOTE: This object is applicable only for CMC.

Description	Enables or disables the use of the Network Time Protocol (NTP) for date and time synchronization.
Legal Values	1 (true) 0 (false)
Default	0

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cfgRhostsNtpServer1

NOTE: This object is applicable to CMC only.

Description	Specifies the first of three possible NTP servers.
Legal Values	A string representing a valid NTP server. For example, ntp1.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.
Default	Null

cfgRhostsNtpServer2

NOTE: This object is applicable only for CMC.

Description	Specifies the second of three possible NTP servers.
Legal Values	A string representing a valid NTP server. For example, ntp2.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.
Default	Null

cfgRhostsNtpServer3

NOTE: This object is applicable only for CMC.

Description	Specifies the third of three possible NTP servers.
Legal Values	A string representing a valid NTP server. For example, ntp3.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.
Default	Null

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cfgRhostsNtpMaxDist

NOTE: This object is applicable only for CMC.

Description	Specifies the NTP maximum distance parameter used to aid in NTP configuration.
Legal Values	1 – 128
Default	16

cfgRhostsSyslogEnable (Read/Write)

Description	Enables or disables remote syslog to allow the RAC and SEL logs to be written to up to three remote syslog servers.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgRhostsSyslogPort (Read/Write)

Description	Remote syslog port number to use for writing the RAC and SEL logs to a remote syslog server. For CMC, this setting takes effect only if the **cfgRhostsSyslogEnable** parameter is set to 1 (enabled).
Legal Values	10 — 65535
Default	514

NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

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cfgRhostsSyslogServer1 (Read/Write)

Description	Specifies the first of three possible remote syslog servers to store the RAC and SEL logs.This property is only valid if **cfgRhostsSyslogEnable** is set to 1 (enabled).
Legal Values	For iDRAC6: String from 0 to 511 characters. For CMC: Valid hostname or IPv4 or IPv6 address.
Default	<blank>

cfgRhostsSyslogServer2 (Read/Write)

Description	Specifies the second of three possible remote syslog servers to store the RAC and SEL logs.. This property is only valid if **cfgRhostsSyslogEnable** is set to 1 (enabled).
Legal Values	For iDRAC6: String from 0 to 511 characters. For CMC: Valid hostname or IPv4 or IPv6 address.
Default	<blank>

cfgRhostsSyslogServer3 (Read/Write)

Description	Specifies the third of three possible remote syslog servers to store the RAC and SEL logs.This property is only valid if **cfgRhostsSyslogEnable** is set to 1 (enabled).
Legal Values	For iDRAC6: String from 0 to 511 characters. For CMC: Valid hostname or IPv4 or IPv6 address.
Default	<blank>

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cfgRhostsSyslogPowerLoggingEnabled

NOTE: This object is applicable only for CMC.

Description	Enables or disables power consumption logging to remote syslog servers.
Legal Values	1 (enabled) 0 (disabled)
Default	0

NOTE: Remote syslog must be enabled and one or more remote syslog servers configured for power consumption to be logged.

cfgRhostsSyslogPowerLoggingInterval

NOTE: This object is applicable only for CMC.

Description	Specifies the power consumption collection/logging interval.
Legal Values	1-1440 (minutes)
Default	5

Example

```
racadm getconfig -g cfgRemoteHosts [-m server-<n>]

cfgRhostsFwUpdateTftpEnable=1
cfgRhostsFwUpdateIpAddr=0.0.0.0
cfgRhostsFwUpdatePath=
cfgRhostsSmtpServerIpAddr=localhost.localdomain
cfgRhostsNtpEnable=0
cfgRhostsNtpServer1=
cfgRhostsNtpServer2=
cfgRhostsNtpServer3=
cfgRhostsNtpMaxDist=16
cfgRhostsSyslogEnable=0
cfgRhostsSyslogPort=514
cfgRhostsSyslogServer1=
cfgRhostsSyslogServer2=
cfgRhostsSyslogServer3=cfgRhostsSyslogPowerLoggingEnabled=1
cfgRhostsSyslogPowerLoggingInterval=5
```


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cfgUserAdmin

This group provides configuration information about the users who are allowed to access iDRAC6 or CMC through the available remote interfaces.

Up to 16 instances of the user group are allowed. Each instance represents the configuration for an individual user.

NOTE: In the current CMC firmware version, the objects **cfgUserAdminEnable** and **cfgUserAdminPrivilege** are interrelated; changing the value of one property causes the value of the other property to change. For example, if a user does not have login privilege, the user is disabled by default. When you enable the user by changing the value of **UserAdminEnable** to 1, the right most digit of the **UserAdminPrivilege** also becomes 1. On the other hand, if you change the right most digit of the **UserAdminPrivilege** to 0, the value of **UserAdminEnable** becomes 0.

NOTE: Use this object with the **config** or **getconfig** subcommands. You must supply an index group number to use these commands as follows: **-i <index group>**

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgUserAdmin** group.

cfgUserAdminIndex (Read Only)

Description	The unique index of a user. For CMC, the index number is used to specify a unique group name. Only valid for indexed groups.
Legal Values	For iDRAC6: This parameter is populated based on the existing instances. For CMC: The parameter is specified by a decimal integer from 1–16.
Default	*<index of the instance>*

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cfgUserAdminIpmiLanPrivilege (Read/Write)

NOTE: This object property is specific to iDRAC6.

Description	The maximum privilege on the IPMI LAN channel.
Legal Values	2 (User) 3 (Operator) 4 (Administrator) 15 (No access)
Default	4 (User 2) 15 (All others)

cfgUserAdminPrivilege (Read/Write)

Description	This property specifies the role-based authority privileges allowed for the user. The value is represented as a bit mask that allows for any combination of privilege values. Table 3-3 describes the user privilege bit values that can be combined to create bit masks.
Legal Values	For iDRAC6: 0x00000000 to 0x000001ff, and 0x0 For CMC: 0x0000000-0x0000fff, and 0x0
Default	0x00000000

Example

```
racadm getconfig -g cfgUserAdmin -i 1

# cfgUserAdminIndex=1
cfgUserAdminEnable=1
cfgUserAdminUserName=root
# cfgUserAdminPassword=******** (Write-Only)
cfgUserAdminPrivilege=0x00000fff
```

Table 3-3 lists the bit masks for user priveleges.

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Table 3-3. Bit Masks for User Privileges

iDRAC Specific User Privilege	Privilege Bit Mask
Login to iDRAC	0x00000001
Configure iDRAC	0x00000002
Configure Users	0x00000004
Clear Logs	0x00000008
Execute Server Control Commands	0x00000010
Access Virtual Console	0x00000020
Access Virtual Media	0x00000040
Test Alerts	0x00000080
Execute Debug Commands	0x00000100
CMC Specific User Privelege	
CMC Login User	**0x0000001**
Chassis Configuration Administrator	**0x0000002**
User Configuration Administrator	0x0000004
Clear Logs Administrator	0x0000008
Chassis Control Administrator	0x0000010
Super User	0x0000020
Server Administrator	0x0000040
Test Alert User	0x0000080
Debug Command Administrator	0x0000100
Fabric A Administrator	0x0000200
Fabric B Administrator	0x0000400
Fabric C Administrator	0x0000800

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Examples

Table 3-4 provides sample privilege bit masks for users with one or more privileges.

Table 3-4. Sample Bit Masks for User Privileges

User Privilege(s)	Privilege Bit Mask
The user is not allowed to access iDRAC or CMC.	0x00000000
The user may only login to iDRAC or CMC and view iDRAC or CMC and server configuration information.	0x00000001
The user may login to iDRAC or CMC and change configuration.	0x00000001 + 0x00000002 = 0x00000003
The user may login to iDRAC, access Virtual Media, and access Virtual Console.	0x00000001 + 0x00000040 + 0x00000080 = 0x000000C1

cfgUserAdminUserName (Read/Write)

Description The name of the user for this index. The user index is created by writing a string into this name field if the index is empty. Writing a string of double quotes ("") deletes the user at that index. You cannot change the name. You must delete and then recreate the name. The string cannot contain / (forward slash), \ (backslash), . (period), @ (at symbol) or quotation marks.

NOTE: This property value must be unique among user names.

Legal Values A string of up to 16 ASCII characters.

Default root (User 2)

<blank> (All others)

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cfgUserAdminPassword (Write Only)

Description	The password for this user. User passwords are encrypted and cannot be seen or displayed after the property is written.
Legal Values	A string of up to 20 ASCII characters.
Default	********

cfgUserAdminEnable (Read/Write)

Description	Enables or disables an individual user.
Legal Values	1 (TRUE) 0 (FALSE)
Default	For iDRAC6: 1 (User 2), 0 (All others) For CMC: 0

cfgUserAdminSolEnable (Read/Write)

NOTE: This object property is specific to iDRAC6.

Description	Enables or disables Serial Over LAN (SOL) user access for the user.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

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cfgUserAdminIpmiSerialPrivilege (Read/Write)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

Description	The maximum privilege on the IPMI LAN channel.
Legal Values	2 (User) 3 (Operator) 4 (Administrator) 15 (No access)
Default	4 (User 2) 15 (All others)

cfgEmailAlert

This group contains parameters to configure iDRAC6 or CMC e-mail alerting capabilities. Up to four instances of this group are allowed.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privileges.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the **cfgEmailAlert** group.

cfgEmailAlertIndex (Read Only)

Description	The unique index of an alert instance.
Legal Values	1-4
Default	<instance>

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cfgEmailAlertEnable (Read/Write)

Description	Enables or disables the alert instance.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgEmailAlertAddress (Read/Write)

Description	Specifies the destination email address for email alerts, for example, user1@company.com.
Legal Values	E-mail address format, with a maximum length of 64 ASCII characters.
Default	<blank>

cfgEmailAlertCustomMsg (Read/Write)

NOTE: This object property is specific to iDRAC6.

Description	Specifies a custom message that forms the subject of the alert.
Legal Values	A string of up to 32 characters
Default	<blank>

cfgEmailAlertEmailName

NOTE: This object property is specific to CMC.

Description	Specifies name or other identifier associated with the destination e-mail address. The e-mail name can refer to an individual, group, location, department, etc.
Legal Values	A string of up to 32 characters
Default	<blank>

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Example

```
racadm getconfig -g cfgEmailAlert -i 2

# cfgEmailAlertIndex=1
cfgEmailAlertEnable=1
cfgEmailAlertAddress=kfulton@dell.com
cfgEmailAlertName=Kevin Fulton
```

cfgSessionManagement

This group contains parameters to configure the number of sessions that can connect to iDRAC6. One instance of the group is allowed. Displays current settings for and configures idle timeout properties for Web server, Telnet, SSH, and RACADM sessions. Changes to idle timeout settings take effect at the next login. To disable idle timeout for a connection, set this property to 0. Use the -m option to apply this setting to iDRAC.

The following sections provides information about the objects in the **cfgSessionManagement** group.

cfgSsnMgtRacadmTimeout (Read/Write)

NOTE: This object is applicable for iDRAC6 on Rack and Tower Servers and CMC, but not for iDRAC6 Enterprise on Blade Servers.

Description	Defines the idle timeout in seconds for the Remote RACADM interface. If a remote RACADM session remains inactive for more than the specified sessions, the session closes.
Legal Values	10 –1920
Default	60

Example

```
racadm getconfig -g cfgSessionManagement [-m server-
<n>] -o <object name> <object value>
cfgSsnMgtWebserverTimeout=0
cfgSsnMgtTelnetIdleTimeout=0
cfgSsnMgtSshIdleTimeout=300
cfgSsnMgtRacadmTimeout=0
```


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cfgSsnMgtConsRedirMaxSessions (Read/Write)

NOTE: This object is applicable only for iDRAC6.

Description	Specifies the maximum number of Virtual Console sessions allowed on iDRAC6.
Legal Values	For iDRAC6 on Rack and Tower Servers: 1 – 4. For iDRAC6 Enterprise on Blade Servers: 1-2
Default	For iDRAC6 on Rack and Tower Servers: 4 For iDRAC6 Enterprise on Blade Servers: 2

cfgSsnMgtWebserverTimeout (Read/Write)

Description	Defines the Web server timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session; you must log out and log in again to make the new settings effective. An expired Web server session logs out the current session.
Legal Values	60 – 10800
Default	1800

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cfgSsnMgtSshIdleTimeout (Read/Write)

Description Defines the secure shell idle timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session; you must log out and log in again to make the new settings effective.

An expired secure shell session displays the following error message:

- In case of iDRAC6 on Rack and Tower Servers:

  ```
  Connection timed out
  ```

- In case of iDRAC6 Enterprise on Blade Servers:

  ```
  Session timed out. Closing the session...
  ```

After the message is displayed, the system returns you to the shell that generated the Secure Shell session.

Legal Values 0 (No timeout)

0 – 10800

Default For iDRAC6 on Rack and Tower Servers: 300

For iDRAC6 Enterprise on Blade Servers and CMC: 1800

NOTE: If 0 (no timeout), the network connection does not send keep alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

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cfgSsnMgtTelnetIdleTimeout (Read/Write)

Description	Defines the Telnet idle timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session (you must log out and log in again to make the new settings effective).
	An expired Telnet session displays the following error message:
	• In case of iDRAC6 on Rack and Tower Servers:
	`Connection timed out`
	• In case of iDRAC6 Enterprise on Blade Servers:
	`Session timed out. Closing the session...`
	After the message is displayed, the system returns you to the shell that generated the Telnet session.

Legal Values	0 (No timeout) 0– 10800 For CMC: 60 – 10800
Default	For iDRAC6 on Rack and Tower Servers: 300 For iDRAC6 Enterprise on Blade Servers and CMC: 1800

NOTE: If 0 (no timeout), the network connection does not send keep alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

cfgSerial

This group contains configuration parameters for iDRAC6 or CMC services. One instance of the group is allowed.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

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The following sections provides information about the objects in the cfgSerial group.

NOTE: The **cfgSerial** object group is applicable for iDRAC6 Enterprise on Blade Servers for only two properties—**cfgSerialTelnetEnable=1** and **cfgSerialSshEnable=1**.

cfgSerialBaudRate (Read/Write)

Description	Sets the baud rate on iDRAC6 or CMC serial port.
Legal Values	For iDRAC6: 9600, 28800, 57600, 115200
	For CMC: 2400, 4800, 9600, 19200, 28800, 38400, 57600,115200
Default	For iDRAC6: 57600
	For CMC: 115200

cfgSerialConsoleEnable (Read/Write)

Description	Enables or disables the RAC or CMC serial console interface.
Legal Values	1 (TRUE)
	0 (FALSE)
Default	For iDRAC6: 0
	For CMC: 1

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cfgSerialConsoleQuitKey (Read/Write)

Default For iDRAC6:

This key or key combination terminates Virtual Console text for iDRAC when using the **console com2** command.

The **cfgSerialConsoleQuitKey** value can be represented by one of the following:

- Decimal value — For example, 95
- Hexadecimal value — For example, 0x12
- Octal value — For example, 007
- ASCII value — For example, ^a

  ASCII values may be represented using the following Escape Key codes:

  - ^ followed by any alphabetic (a-z, A-Z)
  - ^ followed by the listed special characters: [ ] \ ^ _

For CMC:

This key specifies the character that aborts the serial text console connect (or racadm connect) command.

NOTE: The CTRL key is represented by using the ^ (carat) character.

NOTE: The CTRL key does not generate a character by itself, but must be struck simultaneously with another key to generate a character.

For example, striking both the CTRL key and the \ key simultaneously (rather than sequentially) is denoted as ^\.

Configuration options: The value must start with the ^ character, and be followed by one of the characters— a-z, A-Z, [,], \

Legal value: String of up to 4 characters

Default: For iDRAC: <Ctrl><\>

Fo CMC: ^\

NOTE: For information on using RACADM commands for special characters, see "Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands" on page 33.

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cfgSerialConsoleIdleTimeout (Read/Write)

Description	The maximum number of seconds to wait before an idle serial session is disconnected.
Legal Values	0 = No timeout 60 – 1920
Default	For iDRAC6: 300 For CMC: 1800

cfgSerialConsoleNoAuth (Read/Write)

Description	Enables or disables the RAC or CMC serial console login authentication.
Legal Values	0 (enables serial login authentication) 1 (disables serial login authentication)
Default	0

cfgSerialConsoleCommand (Read/Write)

Description	Specifies a serial command that is executed after a user logs into the serial console interface.
Legal Values	For iDRAC6: A string of up to 128 characters. For CMC: A string representing a valid serial command. For example, connect server-1.
Default	<blank>

cfgSerialConsoleColumns

NOTE: This object property is applicable only for CMC.

Description	Specifies the number of columns in the terminal window command line connected to the serial port.
Legal Values	0 – 256
Default	0 (equivalent to 80)

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NOTE: The prompt counts as two characters.

NOTE: The terminal emulator must be configured with the line wrap mode ON, if a terminal emulator is used.

NOTE: You must log out, then log in again for the changes to take effect.

cfgSerialHistorySize (Read/Write)

Description	Specifies the maximum size of the serial history buffer.
Legal Values	0 – 8192
Default	8192

cfgSerialCom2RedirEnable (Read/Write)

The **cfgSerialCom2RedirEnable** object property is applicable only for iDRAC6 on Rack and Tower Servers. It is not applicable for iDRAC6 Enterprise on Blade Servers and CMC.

Description	Enables or disables the console for COM 2 port redirection.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgSerialSshEnable (Read/Write)

Description	Enables or disables the secure shell (SSH) interface on iDRAC6 or CMC.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

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Example

```
racadm getconfig -g cfgSerial

cfgSerialBaudRate=115200
cfgSerialConsoleEnable=1
cfgSerialConsoleQuitKey=^\
cfgSerialConsoleIdleTimeout=1800
cfgSerialConsoleNoAuth=0
cfgSerialConsoleCommand=
cfgSerialConsoleColumns=0
cfgSerialHistorySize=8192
cfgSerialTelnetEnable=0
cfgSerialSshEnable=1
```

cfgSerialTelnetEnable (Read/Write)

Description	Enables or disables the Telnet console interface on iDRAC6 or CMC.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgOobSnmp

This group contains parameters to configure the SNMP agent and trap capabilities of iDRAC6 or CMC. One instance of the group is allowed.

The CMC SNMP agent supports the standard RFC1213 mib-2, and the Dell enterprise-specific MIB.

NOTE: For CMC, use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

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The following sections provides information about the objects in the **cfgOobSnmp** group.

cfgOobSnmpAgentCommunity (Read/Write)

Description	Specifies the SNMP Community Name (identical to community string) used for SNMP traps. The community string acts as a password shared between different hosts over the network. This community string value must match with that of the other hosts for any kind of communication through SNMP.
Legal Values	A string of up to 31 characters.
Default	public

Example

```
racadm getconfig -g cfgOobSnmp

cfgOobSnmpTrapsEnable=1
cfgOobSnmpAgentCommunity=public
```

cfgOobSnmpAgentEnable (Read/Write)

Description	Enables or disables the SNMP agent in iDRAC6 or CMC.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgTraps

This group displays information for and configures delivery of SNMP traps for a specific user.

NOTE: This object property is applicable only to CMC. Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property, you must have **Chassis Configuration Administrator** privilege.

NOTE: You can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

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cfgTrapsIndex (Read Only)

Description	Indicates the unique index of an alert instance
Legal Values	1 - 4
Default	1

cfgTrapsEnable

Description	Enables or disables event traps on the CMC.
Legal Values	1 (TRUE) 0 (FALSE)
Default	None

cfgTrapsAlertDestIpAddr

Description	Sets the IP address that receives the alert.
Legal Values	A string representing a valid IP address. For example, 192.168.0.20.
Default	None

cfgTrapsCommunityName

Description	Sets the community string (identical to the community name) used for authentication. The community string acts as a password shared between different hosts over the network. This community string value must match with that of the other hosts for any kind of communication through SNMP.
Legal Values	A string representing the community name.
Default	None

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Example

```
racadm getconfig -g cfgTraps -i 2

# cfgTrapsIndex=2
cfgTrapsEnable=1
cfgTrapsAlertDestIpAddr=
cfgTrapsCommunityName=public
```

cfgRacTuning

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

Use the -m option to apply this setting to iDRAC.

This group is used to configure various iDRAC6 or CMC configuration properties, such as valid ports and security port restrictions.

The following sections provides information about the objects in the **cfgRacTuning** group.

cfgRacTuneConRedirPort (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	Specifies the port to be used for keyboard, mouse, video, and Virtual Media traffic to iDRAC6.
Legal Values	1025 – 65535
Default	5900

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cfgRacTuneRemoteRacadmEnable (Read/Write)

Description	Enables or disables the Remote RACADM interface in iDRAC or CMC.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgRacTuneCtrlEConfigDisable

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

Description	Enables or disables the ability to disable the ability of the local user to configure iDRAC from the BIOS POST option-ROM.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgRacTuneHttpPort (Read/Write)

Description	Specifies the port number to use for HTTP network communication with iDRAC6 or CMC.
Legal Values	10 – 65535
Default	80

NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

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cfgRacTuneHttpsPort (Read/Write)

Description	Specifies the port number to use for HTTPS network communication with iDRAC6 or CMC.
Legal Values	10 – 65535
Default	443

NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

cfgRacTuneIpRangeEnable (Read/Write)

Description	Enables or disables the IPv4 Address Range validation feature of iDRAC6 or CMC.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgRacTuneIpRangeAddr (Read/Write)

Description	Specifies the acceptable IPv4 address bit pattern in positions determined by the "1"s in the range mask property (**cfgRacTuneIpRangeMask**). For CMC, a login from the incoming IP address is allowed only if the following are identical: • cfgRacTuneIpRangeMask bit-wise and with incoming IP address • cfgRacTuneIpRanbeMask bit-wise and with cfgRacTuneIpRangeAddr
Legal Values	An IPv4 address formatted string, for example, 192.168.0.44.
Default	192.168.1.1

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cfgRacTuneIpRangeMask (Read/Write)

Description	Standard IP mask values with left-justified bits. For example, 255.255.255.0. For CMC, a login from the incoming IP address is allowed only if both of the following are identical: • cfgRacTuneIpRangeMask bit-wise and with incoming IP address • cfgRacTuneIpRanbeMask bit-wise and with cfgRacTuneIpRangeAddr
Legal Values	An IPv4 address formatted string, for example, `255.255.255.0`. Standard IP mask values with left-justified bits.
Default	255.255.255.0

cfgRacTuneIpBlkEnable (Read/Write)

Description	Enables or disables the IPv4 address blocking feature of iDRAC6 or CMC.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgRacTuneIpBlkFailCount (Read/Write)

Description	The maximum number of login failures to occur within the window (**cfgRacTuneIpBlkFailWindow**) before login attempts from the IP address are rejected.
Legal Values	2 – 16
Default	5

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cfgRacTuneIpBlkFailWindow (Read/Write)

Description	Defines the time span in seconds that the failed attempts are counted. When failure attempts age beyond this limit, they are dropped from the count.
Legal Values	For iDRAC6: 10 – 65535 For CMC: 2 – 655356
Default	60

cfgRacTuneIpBlkPenaltyTime (Read/Write)

Description	Defines the time span in seconds that session requests from an IP address with excessive failures are rejected.
Legal Values	For iDRAC6: 10 – 655356 For CMC: 2 – 655356
Default	300

cfgRacTuneSshPort (Read/Write)

Description	Specifies the port number used for iDRAC6 or CMC SSH interface.
Legal Values	For iDRAC6: 1 – 65535 For CMC: 10 – 65535
Default	22

cfgRacTuneTelnetPort (Read/Write)

Description	Specifies the port number used for iDRAC6 or CMC Telnet interface.
Legal Values	For iDRAC6: 1 – 65535 For CMC: 10 – 65535
Default	23

NOTE: For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

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cfgRacTuneConRedirEnable (Read/Write)

NOTE: This object property is applicable only to iDRAC6.

Description	Enables or disables Virtual Console.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgRacTuneConRedirEncryptEnable (Read/Write)

NOTE: This object property is applicable only to iDRAC6.

Description	Encrypts the video in a Virtual Console session.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgRacTuneAsrEnable (Read/Write)

NOTE: This object property is applicable only to iDRAC6.

NOTE: This object requires an iDRAC6 reset before it becomes active.

Description	Enables or disables iDRAC6 last crash screen capture feature.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgRacTuneDaylightOffset (Read Only)

Description	Specifies the daylight savings offset (in minutes) to use for the RAC Time. This value is 0 if the time zone is not a Daylight Saving time zone.
Legal Values	0 – 60
Default	0

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Example

```
racadm getconfig -g cfgRacTuning [-m server-<n>] -o
<object name> <object value>

cfgRacTuneRemoteRacadmEnable=1
cfgRacTuneWebserverEnable=1
cfgRacTuneHttpPort=80
cfgRacTuneHttpsPort=443
cfgRacTuneTelnetPort=23
cfgRacTuneSshPort=22
cfgRacTuneIpRangeEnable=0
cfgRacTuneIpRangeAddr=192.168.1.1
cfgRacTuneIpRangeMask=255.255.255.0
cfgRacTuneIpBlkEnable=0
cfgRacTuneIpBlkFailCount=5
cfgRacTuneIpBlkFailWindow=60
cfgRacTuneIpBlkPenaltyTime=300
# cfgRacTuneTimezoneOffset=-18000
# cfgRacTuneDaylightOffset=3600
```

cfgRacTuneTimezoneOffset (Read Only)

Description Specifies the time zone offset (in minutes) from Greenwich Mean Time (GMT)/Coordinated Universal Time (UTC) to use for the RAC Time. Some common time zone offsets for time zones in the United States are:

- –480 (PST—Pacific Standard Time)
- –420 (MST—Mountain Standard Time)
- –360 (CST—Central Standard Time)
- –300 (EST—Eastern Standard Time)

For CMC: This object property is read only. Specifies the difference in number of seconds, from the (UTC)/ (GMT). This value is negative if the current time zone is west of Greenwich.

Legal Values –720 – 7800

Default 0

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cfgRacTuneLocalServerVideo (Read/Write)

NOTE: This object property is applicable only to iDRAC6.

Description	Enables (switches on) or disables (switches off) the local server video.
Legal Values	1 (TRUE - Enables) 0 (FALSE- Disables)
Default	1

cfgRacTuneLocalConfigDisable (Read/Write)

NOTE: This object property is applicable only to iDRAC6.

Description	Disables write access to iDRAC6 configuration data by setting to 1. **NOTE:** Access can be disabled using the local RACADM or iDRAC6 Web interface; however, once disabled, access can be re-enabled only through iDRAC6 Web interface.
Legal Values	0 (TRUE-Enables) 1 (FALSE-Disables)
Default	0

cfgRacTuneWebserverEnable (Read/Write)

Description	Enables or disables iDRAC6 or CMC web server. If this property is disabled, iDRAC6 or CMC is not accessible using client web browsers. This property has no effect on the Telnet/SSH or RACADM interfaces.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

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cfgRacTuneVirtualConsoleAuthorizeMultipleSessions (Read/Write)

NOTE: This object property is applicable only to iDRAC6.

NOTE: To modify this property, you must have **Configure iDRAC** permission. This object can be used only with remote or firmware (SSH or Telnet) RACADM and not with local RACADM or with earlier DRAC products.

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

Description	If a first user is already using the Virtual Console, the value of this object effects the privileges granted to the subsequent user's shared request after the timeout of 30 seconds.
Legal Values	0 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets an access denied error after the default timeout value of 30 seconds.) 1(If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets a read only access after the default timeout value of 30 seconds.) 2 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets administrator access after default timeout value of 30 seconds.)
Default	0

cfgRacTunePluginType (Read/Write)

NOTE: This object property is applicable only to iDRAC6.

Description	Specifies the plug-in type to use when running virtual console from browser.
Legal Values	0 = Use Active X/Native Plugin 1 = Use Java Plugin
Default	0 = Active X/Native Plugin

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ifcRacManagedNodeOs

NOTE: This object is applicable only to iDRAC6.

This group contains properties that describe the managed server operating system. One instance of the group is allowed.

The following sections provides information about the objects in the **ifcRacManagedNodeOs** group.

ifcRacMnOsHostname (Read Only)

Description	The host name of the managed server.
Legal Values	A string of up to 255 characters.
Default	<blank>

ifcRacMnOsOsName (Read Only)

Description	The operating system name of the managed server.
Legal Values	A string of up to 255 characters.
Default	<blank>

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cfgRacVirtual

NOTE: This object is applicable only to iDRAC6.

This group contains parameters to configure the iDRAC6 Virtual Media feature. One instance of the group is allowed.

The following sections provides information about the objects in the **cfgRacVirtual** group.

cfgRacVirMediaAttached (Read/Write)

Description	This object is used to attach virtual devices to the system via the USB bus. When the devices are attached the server recognizes valid USB mass storage devices attached to the system. This is equivalent to attaching a local USB CDROM/floppy drive to a USB port on the system. When the devices are attached they can be connected to the virtual devices remotely using iDRAC6 Web interface or the CLI. Setting this object to **0** causes the devices to detach from the USB bus.
Legal Values	0 = Detach 1 = Attach 2 = Auto-Attach
Default	0

cfgVirMediaBootOnce (Read/Write)

Description	Enables or disables the Virtual Media Boot Once feature of iDRAC6. If this property is enabled when the host server is rebooted, this feature attempts to boot from the virtual media devices—if the appropriate media is installed in the device.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

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cfgVirtualFloppyEmulation (Read/Write)

NOTE: Virtual Media has to be reattached (using **cfgVirMediaAttached**) for this change to take effect.

Description	When set to 0, the virtual floppy drive is recognized as a removable disk by Windows operating systems. Windows operating systems assigns a drive letter that is C: or higher during enumeration. When set to 1, the Virtual Floppy drive is seen as a floppy drive by Windows operating systems. Windows operating systems assigns a drive letter of A: or B:.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgVirMediaKeyEnable (Read/Write)

Description	Enables or disables the Virtual Media key feature of the RAC. **NOTE:** This command is deprecated from 1.5 and 3.0 releases onwards. The functionality of this command is now covered by `cfgVFlashSDEnable`. While execution of the `cfgVirMediaKeyEnable` command is successful, it is recommended to use the `cfgVFlashSDEnable` command. For more information, see "cfgVFlashSDEnable (Read/Write)" on page 275.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

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cfgSDWriteProtect (Read only)

Description	Displays if the physical write protect latch on the SD card is enabled or disabled. **NOTE:** This command is deprecated from 1.5 and 3.0 releases onwards. The functionality of this command is now covered by `cfgVFlashSDWriteProtect`. While execution of the `cfgSDWriteProtect` command is successful, it is recommended to use the `cfgVFlashSDWriteProtect` command. For more information, see "cfgVFlashSDWriteProtect (Read Only)" on page 277.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgLCDriveEnable (Read/Write)

Description	Enable/disable the USC-LCE device from showing up in the operating system. It must be disabled in ESXi operating system. Allows proper operation of operating system and drivers interfacing with the iDRAC/USC-LCE USB devices.
Legal Values	1 (Enabled) 0 (Disabled)
Default	1

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cfgServerInfo

This group allows you to select the BIOS first boot device and to boot the selected device only once.

For CMC, this group allows you to displays information for and configure a server in the chassis.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option

The following sections provide information about the objects in the **cfgServerInfo** group.

cfgServerInfoIndex (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the index name of the server.
Legal Values	None
Default	None

cfgServerSlotNumber (Read only)

NOTE: This object is applicable only to CMC.

Description	Specifies the location of the specified server (1–16) in the chassis.
Legal Values	None
Default	None

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cfgServerServiceTag (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the service tag of the specified server.
Legal Values	None
Default	None

cfgServerName (Read/Write)

NOTE: This object is applicable only to CMC.

Description	Displays the name of the specified server.
Legal Values	Maximum of 15 non-extended ASCII characters, (ASCII codes 32 through 126). For more information, see "Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands" on page 33.
Default	SLOT-<slot number>

cfgServerFW (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the server's iDRAC management firmware revision.
Legal Values	None
Default	None

cfgServerBIOS (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the server's BIOS revision.
Legal Values	None
Default	None

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cfgServerBmcMacAddress (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the BMC MAC address of the specified server.
Legal Values	None
Default	None

cfgServerNic1MacAddress (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the MAC address of the server NIC 1.
Legal Values	None
Default	None

cfgServerNic2MacAddress (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the MAC address of the server NIC 2.
Legal Values	None
Default	None

cfgServerNic3MacAddress (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the MAC address of the server NIC 3.
Legal Values	None
Default	None

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cfgServerNic4MacAddress (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the MAC address of the server NIC 4.
Legal Values	None
Default	None

cfgServerPriority (Read/Write)

NOTE: This object is applicable only to CMC.

Description	Sets the priority level allotted to the server in the chassis for power budgeting purposes.
Legal Values	1–9 in descending priority, where 1 holds the highest priority
Default	1

cfgServerNicEnable (Read/Write)

NOTE: This object is applicable only to CMC.

Description	Enables or disables LAN channel.
Legal Values	1 (enable) 0 (disable)
Default	None

cfgServerIPMIOverLanEnable (Read/Write)

NOTE: This object is applicable only to CMC.

Description	Enables or disables IPMI LAN channel.
Legal Values	1 (enable) 0 (disable)
Default	None

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cfgServerPowerBudgetAllocation (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the current power allocation for the server.
Legal Values	1 (enable) 0 (disable)
Default	None

cfgServerDNSRegisterIMC (Read/Write)

NOTE: This object is applicable only to CMC.

Description	Enables or disables DNS name registration for the Integrated Management Controller (iDRAC).
Legal Values	1 (enable) 0 (disable)
Default	None

cfgServerDNSIMCName (Read/Write)

NOTE: This object is applicable only to CMC.

Description	Displays the DNS domain name for the integrated Remote Access Controller, iDRAC.
Legal Values	None
Default	None

cfgServerRootPassword (Write only)

NOTE: This object is applicable only to CMC.

Description	Displays the password for iDRAC as a series of asterisks (*). It cannot be seen or displayed after this property is written.
Legal Values	None
Default	None

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cfgServerFirstBootDevice (Read/Write)

NOTE: For CMC, this object is Write only.

NOTE: For a vFlash Partition to be configured as First Boot Device, it has to be attached first. When a detached / non-existent VFlash partition or a non-standard boot device is configured as first boot device, the following error message is displayed:

```
Invalid object value
```

Description	Sets or displays the first boot device. For iDRAC6, you can also set a vFlash partition that is attached as a bootable device. For more information, see "cfgVFlashPartitionOSVolLabel (ReadOnly)" on page 278.
Legal Values	No-Override PXE HDD DIAG CD-DVD BIOS vFDD VCD-DVD iSCSI VFLASH FDD SD
Default	No-Override

cfgServerBootOnce (Read/Write)

NOTE: For CMC, this object is Write only.

Description	Enables or disables the server boot once feature.
Legal Values	1 = TRUE 0 = FALSE
Default	1

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cfgServerPowerConsumption (Read only)

NOTE: This object is applicable only to CMC.

Description	Displays the current power consumption for a server
Legal Values	None
Default	None

Example

```
racadm getconfig -g cfgServerInfo -i 8
# cfgServerInfoIndex=8
# cfgServerSlotNumber=8
# cfgServerServiceTag=
cfgServerName=SLOT-08
# cfgServerFW=3.0
# cfgServerBIOS=
# cfgServerBmcMacAddress=00:21:9B:FE:5F:58
# cfgServerNic1MacAddress=00:0D:56:B8:69:63
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# cfgServerNic2MacAddress=00:0D:56:B8:69:65
# cfgServerNic3MacAddress=00:0D:56:B8:69:CB
# cfgServerNic4MacAddress=00:0D:56:B8:69:CD
cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0
cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-
# cfgServerRootPassword=******** (Write-Only)
# cfgServerFirstBootDevice=******** (Write-Only)
# cfgServerBootOnce=******** (Write-Only)
```


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```
# cfgServerPowerConsumption=0
racadm getconfig -g cfgServerInfo -i 1
# cfgServerInfoIndex=1
# cfgServerSlotNumber=1
# cfgServerServiceTag=1S0M0G1
cfgServerName=SLOT-01
# cfgServerFW=1.40 (Build 12)
# cfgServerBIOS=4.0.2
# cfgServerBmcMacAddress=00:18:8B:FF:41:43
# cfgServerNic1MacAddress=00:1A:A0:FF:D9:F4
# cfgServerNic2MacAddress=00:1A:A0:FF:D9:F6
cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0
cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-1S0M0G1
# cfgServerRootPassword=******** (Write-Only)
# cfgServerFirstBootDevice=******** (Write-Only)
# cfgServerBootOnce=******** (Write-Only)
# cfgServerPowerConsumption=0
```

cfgActiveDirectory

This group contains parameters to configure iDRAC6 or CMC Active Directory feature.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

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The following sections provides information about the objects in the **cfgActiveDirectory** group.

cfgADRacDomain (Read/Write)

Description	Active Directory Domain in which iDRAC6 or CMC resides.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgADRacName (Read/Write)

Description	Name of iDRAC6 or CMC as recorded in the Active Directory forest.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgADRootDomain

NOTE: This object is applicable only to CMC.

Description	Specifies the root domain of the domain forest.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgADEnable (Read/Write)

Description	Enables or disables Active Directory user authentication on iDRAC6 or CMC. If this property is disabled, only local iDRAC6 or CMC authentication is used for user logins.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

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cfgADSCLEnable

NOTE: This object is applicable only to CMC.

Description	Enables you to log on to the CMC without enabling the Smart Card login
Legal Values	1 (Enable) 0 (Disable)
Default	0

cfgADSSOEnable (Read/Write)

Description	Enables or disables Active Directory single sign-on authentication on iDRAC6.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgADDomainController

NOTE: This object is applicable only to CMC.

Description	Specifies the LDAP server from which you want the CMC to obtain user names. Must be used with **cfgADSpecifyServerEnable.**
Legal Values	Valid IP address or fully qualified domain name (FQDN).
Default	None

cfgADDomainController1 (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	iDRAC6 uses the value specified to search the LDAP server for user names.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

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cfgADDomainController2 (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	iDRAC6 uses the value specified to search the LDAP server for user names.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

cfgADDomainController3 (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	iDRAC6 uses the value specified to search the LDAP server for user names.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

cfgADAuthTimeout (Read/Write)

NOTE: To modify this property, you must have **Configure iDRAC** permission.

Description	Specifies the number of seconds to wait for Active Directory authentication requests to complete before timing out.
Legal Values	15 – 300 seconds
Default	120

cfgADType (Read/Write)

Description	Determines the schema type to use with Active Directory.
Legal Values	1 (Enables Active Directory with the extended schema) 2 (Enables Active Directory with the standard schema)
Default	1

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cfgADSpecifyServerEnable

NOTE: This object is applicable only to CMC.

Description	Allows you to enable or disable and specify an LDAP server or a global catalog server. Use cfgADDomainController or cfgADGlobalCatalog to specify the IP address
Legal Values	1 (enabled) 0 (disabled)
Default	0

cfgADGlobalCatalog

NOTE: This object is applicable only to CMC.

Description	Specifies the global catalog server from which you want the CMC to obtain user names. Must be used with cfgADSpecifyServerEnable.
Legal Values	Valid IP address or FQDN.
Default	None

Example

```
racadm getconfig -g cfgActiveDirectory

cfgADEnable=1
cfgADSCLEnable=0
cfgADSSOEnable=0
cfgADRacDomain=
cfgADRootDomain=help
cfgADRacName=
cfgADRacAuthTimeout=300
cfgADType=0x4
cfgADSpecifyServerEnable=1
cfgADDomainController=192.168.1.1
cfgADGlobalCatalog=127.0.0.1
```


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cfgADGlobalCatalog1 (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	iDRAC6 uses the value specified to search the Global Catalog server for user names.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

cfgADGlobalCatalog2 (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	iDRAC6 uses the value specified to search the Global Catalog server for user names.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

cfgADGlobalCatalog3 (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	iDRAC6 uses the value specified to search the Global Catalog server for user names.
Legal Values	A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).
Default	None

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cfgADCertValidationEnable (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	Enables or disables Active Directory certificate validation as a part of the Active Directory configuration process.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgADDcSRVLookupEnable (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	Configures iDRAC6 to use pre-configured domain controllers or to use DNS to find the domain controller. If using pre-configured domain controllers, then the domain controllers to use are specified under **cfgAdDomainController1**, **cfgAdDomainController2**, and **cfgAdDomainController3**. iDRAC6 does not fail over to the specified domain controllers when DNS lookup fails or none of the servers returned by the DNS lookup works.
Legal Values	1 (TRUE)—use DNS to look up domain controllers 0 (FALSE)—use pre-configured domain controllers
Default	0

cfgADDcSRVLookupbyUserdomain (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	Chooses the way the user domain is looked up for Active Directory.
Legal Values	1 (TRUE)—use user domain as the search domain to look up DCs. The user domain is chosen from the user domain list or entered by the login user. 0 (FALSE)—use the configured search domain **cfgADDcSrvLookupDomainName** to look up DCs.
Default	1

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cfgADDcSRVLookupDomainName (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	This is the Active Directory Domain to use when **cfgAddcSrvLookupbyUserDomain** is set to 0.
Legal Values	String. Maximum length = 254
Default	Null

cfgADGcSRVLookupEnable (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	Determines how the global catalog server is looked up. If using pre-configured global catalog servers, then iDRAC6 uses the values **cfgAdGlobalCatalog1**, **cfgAdGlobalCatalog2**, and **cfgAdGlobalCatalog3**.
Legal Values	0(FALSE)—use pre-configured Global Catalog Servers (GCS) 1(TRUE)—use DNS to look up GCS
Default	0

cfgADGcRootDomain (Read/Write)

NOTE: This object is applicable only to iDRAC6.

Description	The name of the Active Directory root domain used for DNS look up, to locate Global Catalog servers.
Legal Values	String. Maximum length = 254
Default	Null

cfgLDAP

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option

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This group allows you to configure settings related to the Lightweight Directory Access Protocol (LDAP).

The following sections provides information about the objects in the **cfgLDAP** group.

cfgLdapEnable (Read/Write)

Description	Turns LDAP service on or off. If this property is disabled, local CMC authentication is used for user logins.
Legal Values	1 (TRUE)—Enable LDAP Services 0 (FALSE)—Disable LDAP Services
Default	0

NOTE: For CMC, enabling this option turns off **cfgADEnable**.

cfgLdapServer (Read/Write)

Description	Configures the address of the LDAP Server. IPv4 and IPv6 are supported.
Legal Values	String. For iDRAC6: Maximum length = 1024 For CMC: Maximum length = 254
Default	Null

NOTE: You can specify multiple servers by separating each server with a comma. For example, example.com, sub1.example.com

cfgLdapPort (Read/Write)

Description	Port of LDAP over SSL. Non-SSL port is not supported.
Legal Values	1 - 65535
Default	636

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cfgLdapBasedn (Read/Write)

Description	The Domain Name of the branch of the directory where all searches should start from.
Legal Values	String. Maximum length = 254
Default	Null

cfgLdapUserAttribute (Read/Write)

Description	Specifies the user attribute to search for. If not configured, the default used is **uid**. It is recommended to be unique within the chosen baseDN, otherwise a search filter must be configured to ensure the uniqueness of the login user. If the user DN cannot be uniquely identified, login fails with error.
Legal Values	String. Maximum length = 254
Default	Null *uid* if not configured.

cfgLdapGroupAttribute (Read/Write)

Description	Specify which LDAP attribute is used to check for group membership. This should be an attribute of the group class. If not specified, then iDRAC6 or CMC uses the member and unique member attributes.
Legal Values	String. Maximum length = 254
Default	Null

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cfgLdapGroupAttributeIsDN (Read/Write)

Description	When it is set to 1, iDRAC6 compares the userDN retrieved from the directory to compare to the members of the group; if it is set to 0, the user name provided by the login user is used to compare to the members of the group. This does not impact the search algorithm for the bind. iDRAC6 always searches the userDN and uses the userDN to bind. For CMC, if enabled, the CMC performs DN matching, otherwise the CMC uses the user name provided at login for matching.
Legal Values	1 (TRUE)—Use the *userDN* from the LDAP Server 0 (FALSE)—Use the *userDN* provided by the login user
Default	1

cfgLdapBinddn (Read/Write)

Description	The distinguished name of a user used to bind to the server when searching for the login user's DN. If not provided, an anonymous bind is used. This is optional but is required if anonymous bind is not supported.
Legal Values	String. Maximum length = 254
Default	Null

NOTE: If **cfgLDAPBindDN** is [null] and **cfgLDAPBindPassword** is [null], then the CMC attempts an anonymous bind.

cfgLdapBindpassword (Write only)

Description	A bind password to use in conjunction with the bindDN. The bind password is sensitive data, and should be properly protected. This is optional but is required if anonymous bind is not supported.
Legal Values	String. Maximum length = 254
Default	Null

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cfgLdapSearchFilter (Read/Write)

Description	A valid LDAP search filter. This is used if the user attribute cannot uniquely identify the login user within the chosen baseDN. The search filter only applies to userDN search and not the group membership search.
Legal Values	For iDRAC6: String of maximum length = 254 characters For CMC: String of maximum length = 1024 characters
Default	(objectclass=*) Searches for all objects in tree.

cfgLDAPCertValidationEnable (Read/Write)

Description	Controls certificate validation during SSL handshake.
Legal Values	1 (TRUE)—iDRAC6 or CMC uses the CA certificate to validate the LDAP server certificate during SSL handshake. 0 (FALSE)—iDRAC6 or CMC skips the certificate validation step of SSL handshake.
Default	1

cfgLDAPNetworkTimeout

NOTE: This object is applicable only to CMC.

Description	Configures the network timeout in seconds.
Legal Values	Positive integer
Default	30 seconds

cfgLDAPSearchTimeout

NOTE: This object is applicable only to CMC.

Description	Configures the search timeout in seconds.
Legal Values	Positive integer
Default	120 seconds

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cfgLDAPSRVLookupEnable

NOTE: This object is applicable only to CMC.

Description	Configures the CMC to query a DNS server for SRV records.
Legal Values	1 (true) 0 (false)
Default	0

cfgLDAPSRVLookupDomainName

NOTE: This object is applicable only to CMC.

Description	Configures the domain name to be used in the SRV lookup.
Legal Values	String of maximum length of 254 alphanumeric characters and hyphens. The string must begin with a letter.
Default	[null]

cfgLDAPSRVLookupServiceName

NOTE: This object is applicable only to CMC.

Description	Configures the service name to be used in the SRV lookup.
Legal Values	String of maximum length of 254 characters.
Default	ldap

cfgLdapRoleGroup

This group allows the user to configure role groups for LDAP.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

For CMC, this object configures Generic LDAP Role group Descriptions and defines the CMC privileges that LDAP-authenticated users are granted.

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cfgLDAPRoleGroup is indexed, containing instances numbered from 1 to 5. Each object instance consists of a pair of properties:

- **cfgLDAPRoleGroupDN**: an LDAP distinguished name (DN)
- **cfgLDAPRoleGroupPrivilege**: a CMC privilege map

Each LDAP-authenticated user assumes the total set of CMC privileges assigned to the matching LDAP distinguished names that the user belongs to.

That is, if the user belongs to multiple role group DNs, the user receives all associated privileges for those DNs.

The following sections provides information about the objects in the **cfgLdapRoleGroup** group.

cfgLdapRoleGroupIndex (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	This is the index value of the Role Group Object.
Legal Values	An integer between 1 and 5
Default	<instance>

cfgLdapRoleGroupDN (Read/Write)

Description	This is the Domain Name of the group in this index. For CMC, configure the LDAP distinguished name (DN) for the role group instance.
Legal Values	String. Maximum length = 1024
Default	None

Example

```
racadm getconfig -g cfgLDAPRoleGroup -o
cfgLDAPRoleGroupDN -i 1 cn=everyone,ou=groups,dc=
openldap,dc=com
```


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cfgLdapRoleGroupPrivilege (Read/Write)

Description	A bit–mask defining the privileges associated with this particular group.
Legal Values	2,3,4, and 5 where: • 2 - User • 3 - Admin • 4 - Operator • 15 - No Access
Default	15

Example

```
racadm getconfig -g cfgLDAPRoleGroup -o
cfgLDAPRoleGroupPrivilege -i 1 2
```

cfgStandardSchema

This group contains parameters to configure the Active Directory standard schema settings.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: For CMC, you can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the **cfgStandardSchema** group.

cfgSSADRoleGroupIndex (Read Only)

Description	Index of the Role Group as recorded in the Active Directory.
Legal Values	An integer between 1 and 5
Default	<instance>

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cfgSSADRoleGroupName (Read/Write)

Description	Name of the Role Group as recorded in the Active Directory forest.
Legal Values	Any printable text string of up to 254 characters with no white space.
Default	<blank>

cfgSSADRoleGroupDomain (Read/Write)

Description	Active Directory Domain in which the Role Group resides.
Legal Values	Any printable text string of up to 254 characters, with no white space.
Default	<blank>

cfgSSADRoleGroupPrivilege (Read/Write)

Description	Use the bit mask numbers in Table 3-5 to set role-based authority privileges for a Role Group.
Legal Values	For iDRAC6: 0x00000000 to 0x000001ff For CMC: 0x00000000–0x00000fff
Default	<blank>

Example

```
racadm getconfig -g cfgStandardSchema

# cfgSSADRoleGroupIndex=1
cfgSSADRoleGroupName=blsys-1
cfgSSADRoleGroupDomain=
cfgSSADRolGroupPrivilege=3081
```

Table 3-5 displays the bit masks for Role Group privileges.

Table 3-5. Bit Masks for Role Group Privileges

Role Group Privilege	Bit Mask
Login to iDRAC	0x00000001
Configure iDRAC	0x00000002

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Table 3-5. Bit Masks for Role Group Privileges *(continued)*

Role Group Privilege	Bit Mask
Configure Users	0x00000004
Clear Logs	0x00000008
Execute Server Control Commands	0x00000010
Access Virtual Console	0x00000020
Access Virtual Media	0x00000040
Test Alerts	0x00000080
Execute Debug Commands	0x00000100

cfgChassisPower

This group is applicable only to CMC and contains parameters to display or configure power for the chassis.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property, you must have **Chassis Configuration Administrator** privilege.

NOTE: You can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the **cfgChassisPower** group.

cfgChassisInPower (Read Only)

Indicates the cumulative input power consumption data (in watts and BTU/hr) captured from all healthy and functional PSUs in the chassis.

cfgChassisPeakPower (Read Only)

The maximum system input power consumption (in watts) since the value was last cleared by a user.

cfgChassisPeakPowerTimestamp (Read Only)

The timestamp recorded when the peak input power consumption value occurred.

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cfgChassisMinPower (Read Only)

The minimum system input power consumption value (in watts) over the time since the value was last cleared.

cfgChassisMinPowerTimestamp (Read Only)

The timestamp recorded when the minimum system power occurred.

cfgChassisPowerStatus (Read Only)

Description	Indicates the power status of the chassis.
Legal Values	1 (other) 2 (unknown) 3 (OK) 4 (non-critical) 5 (critical) 6 (non-recoverable)
Default	None

cfgChassisRedundantState (Read Only)

Description	Enables or disables power redundancy for the chassis.
Legal Values	0 (none) 1 (full)
Default	None

cfgChassisPowerCap (Read/Write)

Description	Indicates the maximum power consumption limit (in watts) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting.
Legal Values	2715–16685 watts
Default	16685 watts

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cfgChassisPowerCapF (Read/Write)

Description	Indicates the maximum power consumption limit (in watts) for the entire chassis. Use **cfgChassisPowerCapF** when power consumption is to be changed regardless of whether server throttling is required. This command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration.
Legal Values	2715–16685 watts
Default	16685 watts

cfgChassisPowerCapBTU (Read/Write)

Description	Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting.
Legal Values	9264 - 56931 BTU/hr
Default	43221 BTU/hr

cfgChassisPowerCapFBTU (Read/Write)

Description	Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. Use **cfgChassisCapFBTU** when power consumption is to be changed regardless of whether server throttling is required. The command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration.
Legal Values	9264 - 56931 BTU/hr
Default	56931 BTU/hr

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cfgChassisPowerCapPercent (Read/Write)

Description	Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power - minimum power)). The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting.
Legal Values	16 -100
Default	100

cfgChassisPowerCapFPercent (Read/Write)

Description	Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power - minimum power)). Use cfgChassisPowerCapFPercent when power consumption is to be changed regardless of whether server throttling is required.
Legal Values	16 -100
Default	100

cfgChassisRedundancyPolicy (Read/Write)

Description	Sets the redundancy policy of the chassis.
Legal Values	0 (no redundancy) 1 (AC redundancy) 2 (power supply redundancy)
Default	0 (no redundancy)

cfgChassisDynamicPSUEngagementEnable (Read/Write)

Description	Enables or disables dynamic engagement.
Legal Values	0 (disabled) 1 (enabled)
Default	0 (disabled)

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cfgChassisAllow110VACOperation (Read/Write)

Description	Enables or disables normal chassis power allocations when any power supply unit is connected to 110V AC service. If disabled and 110V power supplies are detected, all subsequent server power allocation requests are denied. In this mode additional servers cannot be powered on, regardless of server priority.
Legal Values	0 (disabled) 1 (enabled)
Default	0 (disabled)

cfgChassisMaxPowerConservationMode (Read/Write)

Description	Enables or disables max power conservation mode. When enabled, all servers are immediately reduced to their minimum power levels, and all subsequent server power allocation requests are denied. In this mode performance of powered on servers may be degraded, and additional servers cannot be powered on, regardless of server priority.
Legal Values	0 (disabled) 1 (enabled)
Default	0 (disabled)

cfgChassisPerformanceOverRedundancy (Read/Write)

Description	Enables or disables server performance over power redundancy. When enabled, this option favors server performance and server powerup, over maintaining power redundancy. When disabled, the system favors power redundancy over server performance. When disabled, then if the power supplies in the chassis do not provide sufficient power, both for redundancy, as well as full performance, then some servers may not be granted sufficient power for full performance, or may not be powered on, in order to maintain redundancy.
Legal Values	0 (disabled) 1 (enabled)
Default	1 (enabled)

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cfgChassisInMaxPowerCapacity (Read Only)

Indicates the total chassis power budget (in watts) available for chassis operation.

cfgChassisInRedundancyReserve (Read Only)

Indicates the amount of redundant power (in watts) in reserve that can be utilized in the event of an AC grid or PSU failure. This value is 0 if the Redundancy Policy is set to 0 (no redundancy).

cfgChassisInPowerServerAllocation (Read Only)

Indicates (in watts) the cumulative power allocated to servers. There is no default as this parameter is very specific to the particular customer configuration.

cfgChassisInfrastructureInPowerAllocation (Read Only)

Indicates the estimated cumulative DC output power consumption (in watts), determined from a field replaceable unit (FRU) on the hardware modules in the chassis.

cfgChassisTotalInPowerAvailable (Read Only)

Indicates the amount of power (in watts) available for use by the chassis.

cfgChassisStandbyInPowerCapacity (Read Only)

Indicates the amount of power (in watts) available for powering up any hardware modules that are either added to the chassis or powered up (if they are already present in the chassis).

cfgChassisPowerClear (Write Only)

To reset **cfgChassisMinPower** and **cfgChassisMaxPowerCapacity**, set this object to 1.

cfgChassisPowerClearTimestamp (Read Only)

Time stamp when **cfgChassisMinPower** and **cfgChassisMaxPowerCapacity** were reset.

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cfgChassisPowerButtonEnable (Read/Write)

Description	Indicates if the chassis power button is enabled or disabled.
Legal Values	0 (disabled) 1 (enabled).
Default	None

cfgSystemEnergyConsumptionClear (Write Only)

To reset energy statistics, set this value to 1.

Examples

```
racadm getconfig -g cfgChassisPower
# cfgChassisInPower=0 W | 0 BTU/hr
# cfgChassisPeakPower=0 W
# cfgChassisPeakPowerTimestamp=06:32:55 01/26/2009
# cfgChassisMinPower=0 W
# cfgChassisMinPowerTimestamp=06:32:55 01/26/2009
# cfgChassisPowerStatus=5
# cfgChassisRedundantState=0
cfgChassisPowerCap=16685 W
cfgChassisPowerCapF=16685 W
cfgChassisPowerCapBTU=56931 BTU/hr
cfgChassisPowerCapFBTU=56931 BTU/hr
cfgChassisPowerCapPercent =100%
cfgChassisPowerCapFPercent =100%
cfgChassisRedundancyPolicy=0
cfgChassisDynamicPSUEngagementEnable=0
# cfgChassisInMaxPowerCapacity=0 W
# cfgChassisInRedundancyReserve=0 W
# cfgChassisInPowerServerAllocation=0 W
# cfgChassisInfrastructureInPowerAllocation=51 W
# cfgChassisTotalInPowerAvailable=0 W
# cfgChassisStandbyInPowerCapacity=0 W
# cfgChassisPowerClear=******** (Write-Only)
# cfgChassisPowerClearTimestamp=18:00:00 12/31/1969
cfgChassisPowerButtonEnable=1
cfgChassisAllow110VACOperation=0
cfgChassisMaxPowerConservationMode=0
cfgChassisPerformanceOverRedundancy=1
```


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```
cfgSystemEnergyConsumptionClear = ****(Write-Only)
```

```
racadm config -g cfgChassisPower
-o cfgChassisPowerClear 1
```

Clears **cfgChassisMinPower** and **cfgChassisPeakPower**.

cfgIpmiSol

This group is applicable only for iDRAC6 and is used to configure the Serial Over LAN (SOL) capabilities of the system.

The following sections provides information about the objects in the **cfgIpmiSol** group.

cfgIpmiSolEnable (Read/Write)

Description	Enables or disables SOL.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

cfgIpmiSolBaudRate (Read/Write)

Description	The baud rate for serial communication over LAN.
Legal Values	9600, 19200, 57600, 115200
Default	115200

cfgIpmiSolMinPrivilege (Read/Write)

Description	Specifies the minimum privilege level required for SOL access.
Legal Values	2 (User) 3 (Operator) 4 (Administrator)
Default	4

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cfgIpmiSolAccumulateInterval (Read/Write)

Description	Specifies the typical amount of time that iDRAC6 waits before transmitting a partial SOL character data packet. This value is 1-based 5ms increments.
Legal Values	1 – 255
Default	10

cfgIpmiSolSendThreshold (Read/Write)

Description	The SOL threshold limit value. Specifies the maximum number of bytes to buffer before sending an SOL data packet.
Legal Values	1 – 255
Default	255

cfgIpmiLan

This group is applicable only for iDRAC6 and is used to configure the IPMI over LAN capabilities of the system.

The following sections provides information about the objects in the **cfgIpmiLan** group.

cfgIpmiLanEnable (Read/Write)

Description	Enables or disables the IPMI over LAN interface.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

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cfgIpmiLanPrivLimit (Read/Write)

Description	Specifies the maximum privilege level allowed for IPMI over LAN access.
Legal Values	2 (User) 3 (Operator) 4 (Administrator)
Default	4

cfgIpmiLanAlertEnable (Read/Write)

Description	Enables or disables global e-mail alerting. This property overrides all individual e-mail alerting enable/disable properties.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgIpmiEncryptionKey (Read/Write)

Description	The IPMI encryption key.
Legal Values	A string of hexadecimal digits from 0 to 40 characters with no spaces. Only an even amount of digits is allowed.
Default	0000000000000000000000000000000000000000

cfgIpmiPetCommunityName (Read/Write)

Description	The SNMP community name for traps.
Legal Values	A string of up to 18 characters.
Default	public

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cfgIpmiPetIpv6

This group is applicable only for iDRAC6 and is used to configure IPv6 platform event traps on the managed server.

The following sections provides information about the objects in the **cfgIpmiPetIpv6** group.

cfgIpmiPetIPv6Index (Read Only)

Description	Unique identifier for the index corresponding to the trap.
Legal Values	1 – 4
Default	<index value>

cfgIpmiPetIPv6AlertDestIpAddr

Description	Configures the IPv6 alert destination IP address for the trap.
Legal Values	IPv6 address
Default	<blank>

cfgIpmiPetIPv6AlertEnable (Read/Write)

Description	Enables or disables the IPv6 alert destination for the trap.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgIpmiPef

This group is applicable only for iDRAC6 and is used to configure the platform event filters available on the managed server.

The event filters can be used to control policy related to actions that are triggered when critical events occur on the managed server.

The following sections provides information about the objects in the **cfgIpmiPef** group.

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cfgIpmiPefName (Read Only)

Description	Specifies the name of the platform event filter.
Legal Values	A string of up to 255 characters.
Default	The name of the index filter.

cfgIpmiPefIndex (Read/Write)

Description	Specifies the index of a specific platform event filter.
Legal Values	For iDRAC6 on Rack and Tower Servers: 1 – 22 For iDRAC6 Enterprise on Blade Servers: 1-9
Default	The index value of a platform event filter object.

cfgIpmiPefAction (Read/Write)

Description	Specifies the action that is performed on the managed server when the alert is triggered. **NOTE:** For iDRAC6 on Rack and Tower servers, this object is read-only for indexes 20, 21, and 22.
Legal Values	0 (None) 1 (Power Down) 2 (Reset) 3 (Power Cycle)
Default	0

cfgIpmiPefEnable (Read/Write)

Description	Enables or disables a specific platform event filter.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

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cfgIpmiPet

This group is applicable only for iDRAC6 and is used to configure platform event traps on the managed server.

The following sections provides information about the objects in the **cfgIpmiPet** group.

cfgIpmiPetIndex (Read Only)

Description	Unique identifier for the index corresponding to the trap.
Legal Values	1-4
Default	The index value of a specific platform event trap.

cfgIpmiPetAlertDestIpAddr (Read/Write)

Description	Specifies the destination IPv4 address for the trap receiver on the network. The trap receiver receives an SNMP trap when an event is triggered on the managed server.
Legal Values	A string representing a valid IPv4 address. For example, `192.168.0.67`.
Default	0.0.0.0

cfgIpmiPetAlertEnable (Read/Write)

Description	Enables or disables a specific trap.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

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cfgUserDomain

This group is applicable only for iDRAC6 and is used to configure the Active Directory user domain names. A maximum of 40 domain names can be configured at any given time.

The following sections provides information about the objects in the **cfgUserDomain** group.

cfgUserDomainIndex (Read Only)

Description	Represents a specific domain.
Legal Values	1 – 40
Default	The index value.

cfgUserDomainName (Read Only)

Description	Specifies the Active Directory user domain name.
Legal Values	A string of up to 255 ASCII characters.
Default	<blank>

cfgServerPower

This group provides several power management features.

The following sections provides information about the objects in the **cfgServerPower** group.

cfgServerPowerStatus (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Represents the server power state, either ON or OFF.
Legal Values	1 (ON) 0 (OFF)
Default	0

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cfgServerPowerAllocation (Read Only)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC. For iDRAC6 on Rack and Tower Servers the object is available only under Modular FW and Remote RACADM, and not in Local RACADM.

Description	Represents the available allocated power supply for server usage. **NOTE:** In case of more than one power supply, this object represents the minimum capacity power supply.
Legal Values	A string of up to 32 characters.
Default	<blank>

cfgServerActualPowerConsumption (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Represents the power consumed by the server at the current time.
Legal Values	A string of up to 32 characters.
Default	<blank>

cfgServerPowerCapEnable (Read Only)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

Description	Enables or disables the user specified power budget threshold.
Legal Values	0 - Disables the user specified power budget threshold 1- Enables the user specified power budget threshold
Default	1

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cfgServerMinPowerCapacity (Read Only)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

Description	Represents the minimum server power capacity.
Legal Values	A string of up to 32 characters.
Default	<blank>

cfgServerMaxPowerCapacity (Read Only)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

Description	Represents the maximum server power capacity.
Legal Values	A string of up to 32 characters.
Default	<blank>

cfgServerPeakPowerConsumption (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Represents the maximum power consumed by the server until the current time.
Legal Values	A string of up to 32 characters.
Default	<current server peak power consumption>

cfgServerPeakPowerConsumptionTimestamp (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Time when the maximum power consumption was recorded.
Legal Values	A string of up to 32 characters.
Default	Maximum power consumption timestamp.

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cfgServerPowerConsumptionClear (Write Only)

NOTE: This object is applicable only for iDRAC6.

Description	Resets the cfgServerPeakPowerConsumption (Read/Write) property to 0 and the cfgServerPeakPowerConsumptionTimestamp property to the current iDRAC time.
Legal Values	1 (TRUE) 0 (FALSE)
Default	None

cfgServerPowerCapWatts (Read/Write)

NOTE: This object is applicable only for iDRAC6.

Description	Represents the server power threshold in Watts.
Legal Values	A string of up to 32 characters.
Default	Server power threshold in Watts.

cfgServerPowerCapBtuhr (Read/Write)

NOTE: This object is applicable only for iDRAC6.

Description	Represents the server power threshold in BTU/hr.
Legal Values	A string of up to 32 characters.
Default	Server power threshold in BTU/hr.

cfgServerPowerCapPercent (Read/Write)

NOTE: This object is applicable only for iDRAC6.

Description	Represents the server power threshold in percentage.
Legal Values	A string of up to 32 characters.
Default	Server power threshold in percentage.

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cfgServerPowerLastMinAvg (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the average power value during the last minute.
Legal Values	A string of up to 32 characters.
Default	Average power value during the last minute.

cfgServerPowerLastHourAvg (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the average power value during the last hour.
Legal Values	A string of up to 32 characters.
Default	Average power value during the last hour.

cfgServerPowerLastDayAvg (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the average power value during the last day.
Legal Values	A string of up to 32 characters.
Default	Average power value during the last day.

cfgServerPowerLastWeekAvg (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the average power value during the last week.
Legal Values	A string of up to 32 characters.
Default	Average power value during the last week.

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cfgServerPowerLastHourMinPower (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the minimum power value during the last hour.
Legal Values	A string of up to 32 characters.
Default	Minimum power value during the last hour.

cfgServerPowerLastHourMinTime (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of minimum power value during the last minute.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD= Day of the week • MM= Month • Date=Date • YYYY = Year • HH = hour • MM=Minutes • SS = Seconds
Default	Minimum power value during the last minute.

cfgServerPowerLastHourMaxPower (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the maximum power value during the last hour.
Legal Values	A string of up to 32 characters.
Default	Maximum power value during the last hour.

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cfgServerPowerLastHourMaxTime (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of maximum power value during the last hour.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD= Day of the week • MM= Month • Date=Date • YYYY = Year • HH = hour • MM=Minutes • SS = Seconds
Default	Maximum power value during the last hour.

cfgServerPowerLastDayMinPower (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the minimum power value during the last day.
Legal Values	A string of up to 32 characters.
Default	Minimum power value during the last day.

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cfgServerPowerLastDayMinPowerTime (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of minimum power value during the last day.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD = Day of the week • MM = Month • Date = Date • YYYY = Year • HH = hour • MM = Minutes • SS = Seconds
Default	Minimum power value during the last day.

cfgServerPowerLastDayMaxPower (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the maximum power value during the last day.
Legal Values	A string of up to 32 characters.
Default	Maximum power value during the last day.

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cfgServerPowerLastDayMaxPowerTime (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of maximum power value during the last day.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD = Day of the week • MM = Month • Date = Date • YYYY = Year • HH = hour • MM = Minutes • SS = Seconds
Default	Maximum power value during the last day.

cfgServerPowerLastWeekMinPower (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the minimum power value during the last week.
Legal Values	A string of up to 32 characters.
Default	Minimum power value during the last week.

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cfgServerPowerLastWeekMinPowerTime (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of minimum power value during the last week.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD = Day of the week • MM = Month • Date = Date • YYYY = Year • HH = hour • MM = Minutes • SS = Seconds
Default	Minimum power value during the last week

cfgServerPowerLastWeekMaxPower (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the maximum power value during the last week.
Legal Values	A string of up to 32 characters.
Default	Maximum power value during the last week.

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cfgServerPowerLastWeekMaxPowerTime (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of maximum power value during the last week.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD = Day of the week • MM= Month • Date = Date • YYYY = Year • HH = hour • MM = Minutes • SS = Seconds
Default	Maximum power value during the last week.

cfgServerPowerInstHeadroom (Read Only)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

Description	Displays the difference between the available power and the current power consumption.
Legal Values	A string of up to 32 characters.
Default	Difference between the available power and the current power consumption.

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cfgServerPowerPeakHeadroom (Read Only)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

Description	Displays the difference between the available power and the peak power consumption.
Legal Values	A string of up to 32 characters.
Default	Difference between the available power and the peak power consumption.

cfgServerActualAmperageConsumption (Read Only)

NOTE: This object is applicable only for iDRAC6

Description	Displays the current power consumption.
Legal Values	A string of up to 32 characters.
Default	Current power consumption.

cfgServerPeakAmperage (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the current peak power consumption.
Legal Values	A string of up to 32 characters.
Default	Current peak power consumption.

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cfgServerPeakAmperageTimeStamp (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of the current peak power consumption.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD = Day of the week • MM = Month • Date = Date • YYYY = Year • HH = hour • MM = Minutes • SS = Seconds
Default	Timestamp of the current peak power consumption.

cfgServerCumulativePowerConsumption (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the cumulative power consumption.
Legal Values	A string of up to 32 characters.
Default	Cumulative power consumption.

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cfgServerCumulativePowerConsumptionTimeStamp (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	Displays the timestamp of the cumulative power consumption.
Legal Values	A string of up to 32 characters. Time in the format: DD MM Date YYYY HH:MM:SS where, • DD = Day of the week • MM= Month • Date=Date • YYYY = Year • HH = hour • MM=Minutes • SS = Seconds
Default	Timestamp of the cumulative power consumption.

cfgServerCumulativePowerClear (Write Only)

NOTE: This object is applicable only for iDRAC6.

Description	Clears the **cfgServerCumulativePowerConsumption** and **cfgServerCumulativePowerConsumptionTimeStamp** values.
Legal Values	A string of up to 32 characters.
Default	None

cfgServerPeakPowerClear (Write Only)

NOTE: This object is applicable only for iDRAC6.

Description	Clears the **cfgServerPeakPowerConsumption** and **cfgServerPeakPowerConsumptionTimestamp** values.
Legal Values	A string of up to 32 characters.
Default	None

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cfgServerPowerPCIeAllocation (Read/Write)

NOTE: This object is applicable only for iDRAC6.

NOTE: This object is applicable for iDRAC6 Enterprise only for specific Blade Servers and not for iDRAC6 on Rack and Tower Servers or CMC.

NOTE: You must have Administrator privileges to modify the value for this object..

Description	Amount of power allocated to the PCIe cards.
Legal Values	0W: For platforms that do not support PCIe cards. 100W - 500W: For platforms that support PCIe cards.
Default	0: For platforms that do not support PCIe cards. 500W: For platforms that support PCIe cards.

cfgKVMInfo

NOTE: This object is applicable only for CMC.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property, you must have **Chassis Configuration Administrator** privilege.

NOTE: You can configure any setting that is not preceded by the hash sign (**#**) in the output. To modify a configurable object, use the **-o** option.

This group is used to display information for and configure the iKVM.

cfgKVMAccessToCMCEnable

Description	Enables or disables the Dell CMC Console access on the iKVM.
Legal Values	1 (enable) 0 (disable)
Default	None

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cfgKVMFrontPanelEnable

Description	Enables or disables front panel access on the iKVM.
Legal Values	1 (enable) 0 (disable)
Default	None

Example

```
racadm getconfig -g cfgKVMInfo

cfgKVMAccessToCMCEnable=1
cfgKVMFrontPanelEnable=1
```

cfgAlerting

NOTE: This object is applicable only for CMC.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property, you must have **Chassis Configuration Administrator** privilege.

This group is used to enables or disable SNMP event trap alerting and set the event filter.

cfgAlertingEnable

Description	Enables or disables event traps on the CMC.
Legal Values	1 (true) 0 (false)
Default	None

cfgAlertingFilterMask

Description	Sets the event filter
Legal Values	Hex values 0x0 – 0x01ffffff
Default	0x17ff8db

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cfgAlertingSourceEmailName

Description	E-mail address used to send e-mail notifications when an event occurs.
Legal Values	None
Default	None

Examples

- `racadm getconfig -g cfgAlerting -o cfgAlertingEnable 1`
- `racadm config -g cfgAlerting -o cfgAlertingEnable 1`

```
Object value modified successfully.
```

cfgServerPowerSupply

This group is applicable only for iDRAC6 and contains information related to the power supplies. The following sections provide information about the objects in the **cfgServerPowerSupply** group.

NOTE: The **cfgServerPowerSupply** object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

NOTE: The **getconfig** subcommand always shows eight **cfgServerPowerSupply** indexes, even if two power supplies are installed in the system or the system supports a maximum of two power supply units. For the uninstalled and unsupported units, all the objects in the **cfgServerPowerSupply** group displays a value of 0.

cfgServerPowerSupplyIndex

Description	Index of the power supply unit.
Legal Values	Integer from 1-8
Default	None

NOTE: Indexes from 1 – 8 are supported to support up to 8 power supply units. If any power supply unit is not present, **cfgServerPowerSupplyOnlineStatus** is absent and for all the other properties, it is **0**.

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cfgServerPowerSupplyMaxInputPower (Read Only)

Description	Displays the AC input rated power in Watts.
Legal Values	A string of up to 32 characters.
Default	0

cfgServerPowerSupplyMaxOutputPower (Read Only)

Description	Displays the AC output rated power in Watts.
Legal Values	A string of up to 32 characters.
Default	0

cfgServerPowerSupplyOnlineStatus (Read Only)

Description	Displays the status of the power supply unit.
Legal Values	• 0 - Present • 1 - Absent • 2 - Failure • 3 - Predictive failure
Default	0

cfgServerPowerSupplyFwVer (Read Only)

Description	Displays the firmware version of the power supply unit.
Legal Values	A string up to 8 characters.
Default	Null

cfgServerPowerSupplyCurrentDraw (Read Only)

Description	Displays the instantaneous current consumption in 0.1 Amps.
Legal Values	A string of up to 32 characters.
Default	0

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cfgServerPowerSupplyType

Description	Displays whether the power supply is AC or DC.
Legal Values	A string of up to 32 characters.
Default	0

cfgIPv6LanNetworking

This group is used to configure the IPv6 over LAN networking capabilities.

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

NOTE: Use the -m option to apply this setting to iDRAC.

The following sections provides information about the objects in the **cfgIPv6LanNetworking** group.

cfgIPv6Enable (Read/Write)

Description	Enables or disables iDRAC6 or CMC IPv6 stack.
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

cfgIPv6Address

NOTE: This object is applicable only for CMC.

Description	Assigns a static IPv6 address to the CMC. This property is used only if **cfgIPv6AutoConfig** is set to 0 (false).
Legal Values	A string representing a valid IPv6 address. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF
Default	::

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cfgIPv6Address1 (Read/Write)

Description	iDRAC6 or CMC IPv6 address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Gateway (Read/Write)

Description	iDRAC6 or CMC gateway IPv6 address. **NOTE:** For CMC, this property is used only if **cfgIPv6AutoConfig** is set to 0 (false)
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6PrefixLength (Read/Write)

Description	The prefix length for iDRAC6 or CMC IPv6 address1. **NOTE:** For CMC, this property is used only if **cfgIPv6AutoConfig** is set to 0 (false)
Legal Values	For iDRAC6: 1-128 For CMC: 0-128
Default	64

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cfgIPv6AutoConfig (Read/Write)

Description	Enables or disables the **IPv6 Auto Configuration** option. **NOTE:** If this value is set to 0, the CMC disables auto configuration and statically assigns IPv6 addresses. If this value is set to 1, the CMC obtains address and route information using stateless auto configuration and DHCPv6.
Legal Values	1 (TRUE) 0 (FALSE)
Default	For iDRAC6: 0 For CMC: 1

NOTE: The CMC uses its MAC address for its DUID (DUID-LL) when communicating with a DHCPv6 server.

cfgIPv6LinkLocalAddress (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 link local address.
Legal Values	A string representing a valid IPv6 entry.
Default	::

cfgIPv6Address2 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 second address.
Legal Values	A string representing a valid IPv6 entry.
Default	::

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cfgIPv6Address3 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 third address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address4 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 fourth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address5 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 fifth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address6 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 sixth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

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cfgIPv6Address7 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 seventh address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address8 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 eighth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address9 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 ninth address..
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address10 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 tenth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

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cfgIPv6Address11 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 eleventh address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address12 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 twelfth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address13 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 thirteenth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6Address14 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 fourteenth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

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cfgIPv6Address15 (Read Only)

NOTE: This object is applicable only for iDRAC6.

Description	The iDRAC6 IPv6 fifteenth address.
Legal Values	String representing a valid IPv6 entry.
Default	::

cfgIPv6DNSServersFromDHCP6 (Read/Write)

Description	Specifies whether **cfgIPv6DNSServer1** and **cfgIPv6DNSServer2** are static or DHCP IPv6 addresses. **NOTE:** For CMC, this property is used only if **cfgIPv6AutoConfig** is set to 1 (true).
Legal Values	1 (TRUE) 0 (FALSE)
Default	For iDRAC6: 0 For CMC: 1

cfgIPv6DNSServer1 (Read/Write)

Description	An IPv6 DNS server address. **NOTE:** For CMC, this property is used only if **cfgIPv6DNSServersFromDHCP6** is set to 0 (false).
Legal Values	A string representing a valid IPv6 entry. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF
Default	::

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cfgIPv6DNSServer2 (Read/Write)

Description	An IPv6 DNS server address. **NOTE:** This property is only valid if **cfgIPv6DNSServersFromDHCP6** is set to 0 (false).
Legal Values	A string representing a valid IPv6 entry. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF
Default	::

Example

```
$ racadm getconfig -g cfgIPv6LanNetworking [-m server-
<n>]
cfgIPv6Enable=1
cfgIPv6AutoConfig=1
cfgIPv6Address=::
cfgIPv6PrefixLength=64
cfgIPv6Gateway=::
cfgIPv6DNSServersFromDHCP6=1
cfgIPv6DNSServer1=::
cfgIPv6DNSServer2=::
```

If both IPv4 and IPv6 are enabled on the CMC, IPv6 DNS servers take priority. The order of preference for DNS servers is:

- cfgIPv6DNSServer1
- cfgIPv6DNSServer2
- cfgDNSServer1
- cfgDNSServer2

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cfgCurrentLanNetworking (Read only)

This group displays the current CMC NIC properties.

NOTE: This object property is applicable only for CMC. Use this object with the **getconfig** subcommand.

NOTE: To use this object property, you must have **CMC Login User** privilege.

Synopsis

```
racadm getconfig -g cfgCurrentLanNetworking
```

cfgNicCurrentIpAddress

Displays the static IP address to the CMC.

cfgNicCurrentNetmask

Displays the static subnet mask for the CMC IP address.

cfgNicCurrentGateway

Displays the static gateway for the CMC IP address.

cfgNicCurrentDhcpWasUsed

Description	Indicates whether DHCP is used to configure the NIC.
Legal Values	0 – address is static. 1– address was obtained from the DHCP server.
Default	None

cfgDNSCurrentServer1

Displays the IP address for DNS server 1.

cfgDNSCurrentServer2

Displays the IP address for DNS server 2.

cfgDNSCurrentDomainName

Displays the DNS domain name.

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cfgNicCurrentIPv4Enabled

Indicates whether IPv4 is enabled on the CMC. If the current property value is set to 0 (false), the remote network interfaces to the CMC are not accessible over IPv4.

Example

```
racadm getconfig -g cfgCurrentLanNetworking
# cfgNicCurrentIPv4Enabled=1
# cfgNicCurrentIpAddress=143.166.152.116
# cfgNicCurrentNetmask=255.255.255.0
# cfgNicCurrentGateway=143.166.152.1
# cfgNicCurrentDhcpWasUsed=0
# cfgNicCurrentVlanEnable=0
# cfgNicCurrentVlanID=1
# cfgNicCurrentVlanPriority=0
# cfgDNSCurrentServer1=192.168.0.5
# cfgDNSCurrentServer2=192.168.0.6
# cfgDNSCurrentDomainName=MYDOMAIN
```

cfgCurrentIPv6LanNetworking (Read only)

This group displays the current CMC IPv6 properties.

NOTE: This object property is applicable only for CMC. Use this object with the **getconfig** subcommand.

NOTE: To use this object property, you must have **CMC Login User** privilege.

cfgCurrentIPv6Enabled

Indicates whether IPv6 is enabled on the CMC. If the current property value is set to 0 (false), the remote network interfaces to the CMC are not accessible over IPv6.

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cfgCurrentIPv6AutoConfigWasUsed

Description	Indicates whether auto configuration is used to obtain IPv6 settings, including stateless IPv6 address(es) and gateway.
Legal Values	0 (static addressing is used)
	1 (address is obtained from the DHCPv6 server and/or stateless auto configuration)
Default	None

cfgCurrentLinkLocalAddress

Displays the current IPv6 link-local address of the CMC.

cfgCurrentIPv6Address1

Displays the current IPv6 addresses. This property displays up to 15 global IPv6 addresses, including stateful and stateless addresses.

cfgCurrentIPv6Gateway

Displays the current IPv6 gateway.

cfgCurrentIPv6DNSServersFromDHCP6

Indicates whether the DNS server addresses are assigned from the DHCPv6 server.

cfgCurrentIPv6DNSServer1

Displays the IPv6 address for DNS server 1.

cfgCurrentIPv6DNSServer2

Displays the IPv6 address for DNS server 2.

Example

```
$ racadm getconfig -g cfgCurrentIPv6LanNetworking
# cfgCurrentIPv6Enabled=1
# cfgCurrentIPv6AutoConfigWasUsed=1
# cfgCurrentLinkLocalAddress=
fe80::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address1=
```


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```
2009:123::e48f:9dd8:6f51:a669/64
# cfgCurrentIPv6Address2=
fd88:1::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address3=
fd88:2::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Gateway=fe80::21c:23ff:fe77:6215
# cfgCurrentIPv6DNSServersFromDHCP6=1
# cfgCurrentIPv6DNSServer1=2009:123::1
# cfgCurrentIPv6DNSServer2=::
```

cfgIPv6URL

This group specifies properties used to configure iDRAC6 IPv6 URL.

The following sections provides information about the objects in the **cfgIPv6URL** group.

cfgIPv6URLstring (Read Only)

Description	The iDRAC6 IPv6 URL.
Legal Values	A string of up to 80 characters.
Default	<blank>

cfgIpmiSerial

This group is applicable only for iDRAC6 and specifies properties used to configure the IPMI serial interface of the BMC.

NOTE: The **cfgIpmiSerial** object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

cfgIpmiSerialBaudRate (Read/Write)

Description	Specifies the baud rate for a serial connection over IPMI.
Legal Values	9600, 19200, 57600, 115200
Default	57600

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cfgIpmiSerialConnectionMode (Read/Write)

Description	When the iDRAC6 **cfgSerialConsoleEnable** property is set to 0 (disabled), the iDRAC6 serial port becomes the IPMI serial port. This property determines the IPMI defined mode of the serial port. In Basic mode, the port uses binary data with the intent of communicating with an application program on the serial client. In Terminal mode, the port assumes that a dumb ASCII terminal is connected and allows very simple commands to be entered.
Legal Values	0 (Terminal) 1 (Basic)
Default	1

cfgIpmiSerialChanPrivLimit (Read/Write)

Description	Specifies the maximum privilege level allowed on the IPMI serial channel.
Legal Values	2 (User) 3 (Operator) 4 (Administrator)
Default	4

cfgIpmiSerialFlowControl (Read/Write)

Description	Specifies the flow control setting for the IPMI serial port.
Legal Values	0 (None) 1 (CTS/RTS)
Default	1

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cfgIpmiSerialHandshakeControl (Read/Write)

Description	Enables or disables the IPMI terminal mode handshake control.
Legal Values	0 (FALSE) 1 (TRUE)
Default	1

cfgIpmiSerialLineEdit (Read/Write)

Description	Enables or disables line editing on the IPMI serial interface.
Legal Values	0 (FALSE) 1 (TRUE)
Default	1

cfgIpmiSerialEchoControl (Read/Write)

Description	Enables or disables echo control on the IPMI serial interface.
Legal Values	0 (FALSE) 1 (TRUE)
Default	1

cfgIpmiSerialDeleteControl (Read/Write)

Description	Enables or disables delete control on the IPMI serial interface.
Legal Values	0 (FALSE) 1 (TRUE)
Default	0

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cfgIpmiSerialNewLineSequence (Read/Write)

Description	Specifies the newline sequence specification for the IPMI serial interface.
Legal Values	0 (None) 1 (CR-LF) 2 (NULL) 3 (<CR>) 4 (<LF-CR>) 5 (<LF>)
Default	1

cfgIpmiSerialInputNewLineSequence (Read/Write)

Description	Specifies the input newline sequence specification for the IPMI serial interface.
Legal Values	1 (CR-LF) 2 (NULL)
Default	1

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cfgSmartCard

This group is applicable only for iDRAC6 and specifies properties used to support access to iDRAC6 using a smart card.

The following sections provides information about the objects in the **cfgSmartCard** group.

cfgSmartCardLogonEnable (Read/Write)

Description	Enables, disables, or enables with Remote RACADM support for access to iDRAC6 using a smart card. **NOTE:** Enabling with remote RACADM is only applicable for iDRAC6 on Rack and Tower Servers.
Legal Values	0 (Disabled) 1 (Enabled) 2 (Enabled with Remote RACADM) - This is not applicable for iDRAC6 Enterprise on Blade Servers.
Default	0

cfgSmartCardCRLEnable (Read/Write)

NOTE: This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

Description	Enables or disables the Certificate Revocation List (CRL).
Legal Values	1 (TRUE) 0 (FALSE)
Default	0

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cfgNetTuning

This group enables users to configure the advanced network interface parameters for the RAC NIC or CMC. When configured, the updated settings may take up to a minute to become active.

The following sections provides information about the objects in the **cfgNetTuning** group.

NOTE: The **cfgNetTuning** object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

CAUTION: Use extra precaution when modifying properties in this group. Inappropriate modification of the properties in this group can result in your RAC NIC become inoperable.

cfgNetTuningNicSpeed

Description	Specifies the speed for the CMC NIC. This property is used only if **cfgNetTuningNicAutoNeg** is set to 0 (disabled).
Legal Values	10 or 100
Default	100

cfgNetTuningNicAutoneg (Read/Write)

Description	Enables autonegotiation of physical link speed and duplex. If enabled, autonegotiation takes priority over values set in the **cfgNetTuningNic100MB** and **cfgNetTuningNicFullDuplex** objects.
Legal Values	1 (TRUE) 0 (FALSE)
Default	1

Example

```
racadm getconfig -g cfgNetTuning

cfgNetTuningNicSpeed=100
cfgNetTuningNicFullDuplex=1
cfgNetTuningNicMtu=1500
cfgNetTuningNicAutoneg=1
```


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cfgNetTuningNic100MB (Read/Write)

Description	Specifies the speed to use for the RAC NIC. This property is not used if the **cfgNetTuningNicAutoNeg** is set to 1 (enabled).
Legal Values	0 (10 MBit) 1 (100 MBit)
Default	1

cfgNetTuningNicFullDuplex (Read/Write)

Description	Specifies the duplex setting for the RAC or CMC NIC. This property is used only if the **cfgNetTuningNicAutoNeg** is set to 0 (disabled).
Legal Values	0 (Half Duplex) 1 (Full Duplex)
Default	1

cfgNetTuningNicMtu (Read/Write)

Description	The size in bytes of the maximum transmission unit used by iDRAC6 or CMC NIC.
Legal Values	576 – 1500
Default	1500

NOTE: IPv6 requires a minimum MTU of 1280. If IPv6 is enabled, and **cfgNetTuningMtu** is set to a lower value, the CMC uses an MTU of 1280.

cfgSensorRedundancy

This group is applicable only for iDRAC6 and is used to set the power supply redundancy.

The following sections provides information about the objects in the **cfgSensorRedundancy** group.

NOTE: The **cfgSensorRedundancy** object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

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cfgSensorRedundancyIndex (Read Only)

Description	Index for the sensor redundancy group being read. Only power supply redundancy is supported.
Legal Values	1
Default	None

cfgSensorRedundancyPolicy (Read/Write)

Description	Sets the power supply redundancy policy.
Legal Values	2 - N/A, for sytems that are not supported 3 - Non Redundant 4 - 1+1 Redundant 4 - 2+1 Redundant 16 - 2+2 Redundant
Default	Any legal value at that particular execution instance.

cfgSensorRedundancyCapabilities (Read Only)

Description	Returns the redundancy capabilities in the form of a bitmask. This bitmask allows the user to know which values can be set for **cfgSensorRedundancyPolicy**.
Legal Values	A bit mask. More than 1-bit can be set at a time to indicate multiple redundancy support. 0- N/A, for sytems that are not supported 1- Non Redundant 2- 1+1 - Redundant 4- 2+1 - Redundant 8- 2+2 - Redundant
Default	0

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cfgSensorRedundancyStatus (Read Only)

Description	Indicates the redundancy status. The status is N/A on platforms that does not support the power supply sensor redundancy.
Legal Values	String: • N/A • Full • Lost • Degraded
Default	None

cfgVFlashSD

This group is applicable only for iDRAC6 and is used to configure the properties for the vFlash SD card.

The following sections provides information about the objects in the **cfgVFlashSD** group.

cfgVFlashSDEnable (Read/Write)

Description	Enables or disables the vFlash SD card.
Legal Values	0 (vFlash is disabled) 1 (vFlash is enabled)
Default	1

cfgVFlashSDSize (Read Only)

Description	Displays the size of the vFlash SD card in megabytes (MB).
Legal Values	A string of upto 64 characters.
Default	<card size>

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cfgVFlashSDLicensed (Read Only)

Description	Displays whether a SD card or vFlash SD card is inserted. The vFlash SD card supports the new enhanced vFlash features and the SD card supports only the limited vFlash features.
Legal Values	0 (SD card is inserted) 1 (vFlash SD card is inserted)
Default	None

cfgVFlashSDAvailableSize (Read Only)

Description	Displays the available space (in MB) on the vFlash SD card that can be used to create new partitions.
Legal Values	A string of up to 64 characters.
Default	If the card is not initialized, default is 0. If initialized, displays the unused space on the card.

cfgVFlashSDHealth (Read Only)

Description	Displays the current health status of the vFlash SD card.
Legal Values	String: • OK • Warning • Critical • Unknown
Default	OK

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cfgVFlashSDWriteProtect (Read Only)

Description	Displays whether the physical write-protect latch on the vFlash SD card is enabled or disabled.
Legal Values	0 (vFlash is not write-protected) 1 (vFlash is write-protected)
Default	None

cfgVFlashPartition

This group is applicable only for iDRAC6 and is used to configure properties for individual partitions on the vFlash SD Card. Up to 16 partitions are supported, indexed from 1 to 16.

NOTE: For SD cards, the index value is limited to 1 because only a single partition of size 256 MB is allowed.

The following sections provides information about the objects in the **cfgVFlashPartition** group.

cfgVFlashPartitionIndex (ReadOnly)

Description	Displays the size of the partition.
Legal Values	Integer from 1-16
Default	None

cfgVFlashPartitionSize (ReadOnly)

Description	The index value of the partition.
Legal Values	1MB to 4 GB
Default	None

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cfgVFlashPartitionEmulationType (ReadWrite)

Description	Displays the emulation type for the partition.
Legal Values	String: • HDD • Floppy • CDROM
Default	None

cfgVFlashPartitionOSVolLabel (ReadOnly)

Description	Displays the label for the partition that is visible to the operating system.
Legal Values	An alphanumeric string of up to six characters.
Default	None

cfgVFlashPartitionFormatType (ReadOnly)

Description	Displays the format type of the partition.
Legal Values	String: • FAT16 • FAT32 • EXT2 • EXT3 • CD • RAW
Default	None

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cfgVFlashPartitionAccessType (Read/Write)

Description	Indicates the partition access permissions. It configures the access type to read-write.
Legal Values	0(Read-only) 1(Read-write)
Default	0

cfgVFlashPartitionAttachState (Read/Write)

Description	Displays whether the partition is attached or detached.
Legal Values	1 (Attached) 0 (Detached)
Default	0

cfgLogging

This group is applicable only for iDRAC6 and contains parameters to enable or disable the OEM event log filtering.

The following section provides information about the objects in the **cfgLogging** group:

cfgLoggingSELOEMEventFilterEnable (Read/Write)

Description	Enables or disables the SEL Log filtering.
Legal Values	0 (SEL Log filtering is Disabled) 1 (SEL Log filtering is Enabled)
Default	0

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cfgKMSProfile

NOTE: This current release does not support this group.

This group is applicable only for iDRAC6 and is an indexed group which currently only supports two indices, since iDRAC only communicates with any one of the two KMSs using their specific profile information.

NOTE: This group is also configurable using the **-f** option and follows the read only value of **cfgKMSProfileIndex** as the anchor value for the indexed group.

The following section provides information about the objects in the **cfgKMSProfile** group:

cfgKMSProfileIndex(Read only)

Description	Index of the profile
Legal Values	1 2
Default	None

cfgKMSProfileIPAddress(Read/Write)

Description	IP address/FQDN of the KMS
Legal Values	IPv4, IPv6, FQDN
Default	0.0.0.0

cfgKMSProfilePortNumber(Read/Write)

Description	Port number indicates the port on which the Key management server is listening to. For KMC to communicate to the KMS, one needs to configure the same port number as on the KMS.
Legal Values	1 to 65535
Default	443

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cfgKMSProfileTimeout(Read/Write)

Description	The timeout value indicates the keep-alive time for the KMC-KMS connection.
Legal Values	15 to 600 seconds
Default	300 seconds

cfgKMSProfileDeviceGroup(Read/Write)

Description	Device group indicates the group on the KMS to which the device will belong to. The Device group on the KMS is a configurable string, which must be provided to the KMC for it to retrieve the keys.
Legal Values	AlphaNumeric character values with only underscore as special character.
Default	Poweredge

cfgRacSecurity

NOTE: Use this object with the **config** or **getconfig** subcommands.

NOTE: To use this object property, you must have **Chassis Configuration Administrator** privilege. This object property is specific to CMC only.

NOTE: For iDRAC6 this group is replaced with **cfgRacSecrityData.**

This group is used to configure settings related to CMC SSL certificate signing request (CSR) feature. The properties in this group must be configured before generating a CSR from CMC.

For more information on generating certificate signing requests, see the subcommand "sslkeyupload" on page 133.

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The following sections provides information about the objects in the **cfgRacSecurity** group.

cfgRacSecCsrCommonName (Read/Write)

Description	Specifies the CSR Common Name (CN) that must be an IP or CMC name as given in the certificate.
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrOrganizationName (Read/Write)

Description	Specifies the CSR Organization Name (O).
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrOrganizationUnit (Read/Write)

Description	Specifies the CSR Organization Unit (OU).
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrLocalityName (Read/Write)

Description	Specifies the CSR Loyalty (L).
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrStateName (Read/Write)

Description	Specifies the CSR State Name (S).
Legal Values	A string of up to 254 characters.
Default	<blank>

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cfgRacSecCsrCountryCode (Read/Write)

Description	Specifies the CSR Country Code (CC).
Legal Values	A string of up to 2 characters.
Default	<blank>

cfgRacSecCsrEmailAddr (Read/Write)

Description	Specifies the CSR email address.
Legal Values	A string of up to 254 characters.
Default	<blank>

Example

```
racadm config -g cfgRacSecurity

cfgRacSecCsrKeySize=1024
cfgRacSecCommonName=
cfgRacSecOrganizationName=
cfgRacSecOrganizationUnit=
cfgRacSecLocalityName=
cfgRacSecStateName=
cfgRacSecCountryCode=
cfgRacSecEmailAddr=
```

cfgRacSecCsrKeySize (Read/Write)

Description	Specifies the SSL asymmetric key size for the CSRs.
Legal Values	512, 1024, 2048
Default	1024

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cfgRacSecurityData

NOTE: This object property is specific to iDRAC6 only.

This group is used to configure settings related to iDRAC6 SSL certificate signing request (CSR) feature and KMC certificate signing request feature. The properties in this group must be configured before generating a CSR from iDRAC6. This is an indexed group which currently only supports two indices.

NOTE: This second index is not supported for this release.

For more information on generating certificate signing requests, see the subcommand "sslkeyupload" on page 133.

The following sections provides information about the objects in the **cfgRacSecurityData** group:

cfgRacSecCsrIndex

Description	Specifies the CSR index
Legal Values	1 = Server certificate 2 = KMS certificate
Default	<blank>

cfgRacSecCsrKeySize

Description	Specifies the keysize of the CSR
Legal Values	1024, 2048
Default	1024

cfgRacSecCsrCommonName (Read/Write)

Description	Specifies the CSR Common Name (CN) that must be an IP or iDRAC or CMC name as given in the certificate.
Legal Values	A string of up to 254 characters.
Default	<blank>

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cfgRacSecCsrOrganizationName (Read/Write)

Description	Specifies the CSR Organization Name (O).
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrOrganizationUnit (Read/Write)

Description	Specifies the CSR Organization Unit (OU).
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrLocalityName (Read/Write)

Description	Specifies the CSR Loyalty (L).
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrStateName

Description	Specifies the CSR State Name (S).
Legal Values	A string of up to 254 characters.
Default	<blank>

cfgRacSecCsrCountryCode

Description	Specifies the CSR Country Code (CC).
Legal Values	A string of up to 254 characters.
Default	US

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cfgRacSecCsrEmailAddr

Description	Specifies the CSR email address.
Legal Values	A string of up to 254 characters.
Default	<blank>

Example

```
racadm getconfig -g cfgRacSecurityData -i 1
    #cfgRacSecCsrIndex=1
    cfgRacSecCsrKeySize=1024
    cfgRacSecCsrCommonName=iDRAC_10.35.1105.10
    cfgRacSecCsrOrganizationName=OrgName
    cfgRacSecCsrOrganizationUnit=OrgUnit
    cfgRacSecCsrLocalityName=LocalityName
    cfgRacSecCsrStateName=TX
    cfgRacSecCsrCountryCode=US
    cfgRacSecCsrEmailAddr=abc@xy.z.com
```


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4

Deprecated Commands, Groups, and Objects

This section provides information about the deprecated RACADM subcommands, groups, and objects in the current release. Few commands, groups, or objects are deprecated in RACADM either due to a new command or object replacing the functionality of an existing command or object, or the feature is no longer supported.

For the deprecated command or object:

- If you run the `racadm help` command, the deprecated command is not displayed in the command list.
- If you run the r`acadm help <deprecated command name>`, then the following information is displayed:

  ```
  ATTENTION: <command name> is a deprecated command!

  While execution of this command will still be
  successful we strongly encourage you to use the
  new functionality.

  The functionality of this command is now covered
  by <list of new functionality>.

  Type “racadm help <new command name>” to learn
  more.
  ```

  NOTE: This information is displayed only for iDRAC6 on Rack and Tower servers and is not displayed for iDRAC6 Enterprise on Blade servers.

- If you run a deprecated command, it works if the feature is supported. If the feature is not supported, an error is not returned.
- If you run the `racadm getconfig –h` command, the deprecated group is not displayed in the results.

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- If you query a deprecated group or object, then the values are returned.
- If you try to configure a deprecated group or object, the configuration succeeds.
- If you request a group that contains a deprecated object, the deprecated object is not displayed in the results.

Table 4-1 lists the RACADM subcommands deprecated in the current release.

Table 4-1. RACADM Deprecated Subcommands

Subcommand	Replaced With
vmkey reset	vflashsd initialize
testkmsconnectivity	-

Table 4-2 lists the RACADM groups and objects deprecated in the current release.

Table 4-2. RACADM Deprecated Groups and Objects

Group/Object	Replaced With
cfgVirMediaKeyEnable	cfgVFlashSDEnable
cfgSDWriteProtect	cfgVFlashSDWriteProtect

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