



RADIUS Commands

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radius-server deadline

To configure how long unavailable RADIUS servers are skipped over by transaction requests, use the **radius-server deadline** command in switch configuration mode. This improves RADIUS response time when servers are unavailable. To restore the default configuration, use the **no** form of this command.

radius-server deadline *deadline*
no radius-server deadline

Syntax Description	<i>deadline</i> Specifies the time interval in minutes, during which a RADIUS server is skipped over by transaction requests. Valid range is from 0 to 2000.
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Command Default	The default deadline interval is 0.
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Command Modes	Switch configuration (config-switch)
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Command History	Release	Modification
	3.5.1	This command was introduced.

Example

The following example sets the deadline of all RADIUS servers to 10 minutes.

```
nfvis(config-switch)# radius-server deadline 10
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

radius-server host

To configure a RADIUS server host, use the **radius-server host** command in switch configuration mode. To delete the specified RADIUS server host, use the **no** form of the command.

```
radius-server host {ip-address | hostname} [acct-port UDP-port-number] [auth-port
UDP-port-number] [deadtime deadtime] [key key-string] [priority priority] [retransmit retries]
no radius-server host
```

Syntax Description		
<i>ip-address</i>		Specifies the RADIUS server host IP address. The IP address can be an IPv4, IPv6 or IPv6z address.
<i>hostname</i>		Specifies the RADIUS server host name. Translation to IPv4 addresses only is supported. (Length: 1–158 characters. Maximum label length of each part of the hostname: 63 characters)
acct-port <i>UDP-port-number</i>		(Optional) Specify the UDP port number for accounting requests. If the port number is set to 0, the host is not used for authentication. If unspecified, the port number defaults to 1813.
auth-port <i>UDP-port-number</i>		(Optional) Specify the UDP port number for authentication requests. If set to 0, the host is not used for authentication. If unspecified, the port number defaults to 1812.
deadtime <i>deadtime</i>		(Optional) Specify time, in minutes, for which a RADIUS server is skipped over by transaction requests. Range: 1-2000
key <i>key-string</i>		(Optional) Specifies the authentication and encryption key (per-server encryption key) for all RADIUS communications between the device and the RADIUS server. This key must match the encryption used on the RADIUS daemon. Length: 0–128 characters. To specify an empty string, enter "". If this parameter is omitted, the globally-configured radius key will be used.
priority <i>priority</i>		(Optional) Specifies the order in which servers are used, where 0 is the highest priority. Range: 0-65535.
retransmit <i>retries</i>		(Optional) Specify the number of retries to the active server (overrides default). If no retransmit value is specified, the global value is used. Range: 0-15.

Command Default If **retransmit** is not specified, the global value set in the **radius-server retransmit** command is used.
If **key** is not specified, the global value set in the **radius-server key** command is used.

Command Modes Switch configuration (config-switch)

Command History

Release	Modification
3.5.1	This command was introduced.

Usage Guidelines To specify multiple hosts, use this command for each host.

Example

The following example specifies a RADIUS server host with the IP address 172.29.39.46 and authentication request port number 20.

```
nfvis(config-switch)# radius-server host 172.29.39.46 auth-port 20
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

radius-server key

To set the authentication key for RADIUS communications between the device and the RADIUS daemon, use the **radius-server key** command in switch configuration mode. To restore the default configuration, use the **no** form of this command

```
radius-server key key-string  
no radius-server key
```

Syntax Description	<i>key-string</i> Specifies the authentication and encryption key for all RADIUS communication between the device and the RADIUS server. This key must match the encryption used on the RADIUS daemon. Range: 0 to 128 characters.
Command Default	The key-string is an empty string.
Command Modes	Switch configuration (config-switch)
Command History	Release Modification 3.5.1 This command was introduced.

Example

The following example defines the authentication key for all RADIUS communication between the device and the RADIUS daemon.

```
nfvis(config-switch)# radius-server key enterprise-server  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

radius-server retransmit

To specify the number of times the software searches the list of RADIUS server hosts, use the **radius-server retransmit** command in switch configuration mode. To restore the default configuration, use the **no** form of this command.

radius-server retransmit *retries*
no radius-server retransmit

Syntax Description	<i>retries</i> Specifies the number of retries for a transaction. Valid range is from 1 to 15.				
Command Default	The software searches the list of RADIUS server hosts 3 times.				
Command Modes	Switch configuration (config-switch)				
Command History	<table><thead><tr><th>Release</th><th>Modification</th></tr></thead><tbody><tr><td>3.5.1</td><td>This command was introduced.</td></tr></tbody></table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				

Example

The following example configures the number of times the software searches all RADIUS server hosts to 5.

```
nfvis(config-switch)# radius-server retransmit 5
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

radius-server timeout

To set the number of retries for a transaction, use the **radius-server timeout** command in switch configuration mode. To restore the default configuration, use the **no** form of this command

```
radius-server timeout timeout-tries  
no radius-server timeout timeout-tries
```

Syntax Description	<i>timeout-tries</i> Specify the number of retries for a transaction. Valid range is from 1 to 15.
Command Default	The default value for <i>timeout-tries</i> is 3.
Command Modes	Switch configuration (config-switch)
Command History	Release Modification 3.5.1 This command was introduced.

Example

The following example sets the number of retries for a transaction to 5.

```
nfvis(config-switch)# radius-server timeout 5  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

ip radius source-interface

To use the IPv4 address of the specified source interface as the Source IPv4 address for communication with IPv4 RADIUS servers, use the **ip radius source-interface** command in switch configuration mode. To restore the default configuration, use the **no** form of the command.

```
ip radius source-interface interface-id  
no ip radius source-interface
```

Syntax Description	<i>interface-id</i> Specifies the source interface.				
Command Default	The source IPv4 address is the IPv4 address defined on the outgoing interface and belonging to next hop IPv4 subnet.				
Command Modes	Switch configuration (config-switch)				
Command History	<table><thead><tr><th>Release</th><th>Modification</th></tr></thead><tbody><tr><td>3.6.1</td><td>This command was introduced.</td></tr></tbody></table>	Release	Modification	3.6.1	This command was introduced.
Release	Modification				
3.6.1	This command was introduced.				
Usage Guidelines	<p>If the source interface is the outgoing interface, the interface IP address belonging to next hop IPv4 subnet is applied.</p> <p>If the source interface is not the outgoing interface, the minimal IPv4 address defined on the source interface is applied.</p>				

Example

The following example configures the VLAN 10 as the source interface.

```
nfvis(config-switch)# ip radius source-interface vlan 100
```


show switch radius-server

To display the RADIUS server configuration, use the **show switch radius-server** command in privileged EXEC mode.

```
show switch radius-server [configuration {global | host}]
```

Syntax Description	configuration Specifies the mode for the RADIUS server configuration information.				
	global Displays the global configuration information about the RADIUS server.				
	host Displays the RADIUS server host information.				
Command Default	None				
Command Modes	Privileged EXEC (#)				
Command History	<table><thead><tr><th>Release</th><th>Modification</th></tr></thead><tbody><tr><td>3.6.1</td><td>This command was introduced.</td></tr></tbody></table>	Release	Modification	3.6.1	This command was introduced.
Release	Modification				
3.6.1	This command was introduced.				
Usage Guidelines	None				

Example

The following is a sample output of the **show switch radius-server** command that displays the RADIUS server configuration:

```
nfvis# show switch radius-server
radius-server configuration global key None
radius-server configuration global timeout 3
radius-server configuration global deadtime 0
radius-server configuration global retransmit 3
radius-server configuration global source-ipv4-intf none
```

```
show switch radius-server
```