



FSOS IPv6 Security Command Line Reference User Guide

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DHCPv6 Snooping Comman

clear dhcpv6 snooping bindings

Use the clear dhcpv6 snooping bindings global configuration command on the switch to clear the dynamic DHCPv6 binding items.

Command Syntax

clear dhcpv6 snooping bindings learning (ipv6 *IP-ADDRESS* | mac *MAC-ADDRESS* | vlan

VLAN-ID | interface *IFNAME*)

ipv6 <i>IP-ADDRESS</i>	Clear the binding entry with the IPv6 address
mac <i>MAC-ADDRESS</i>	Clear the binding entry with the MAC address
vlan <i>VLAN-ID</i>	Clear the binding entry with the VLAN
interface <i>IFNAME</i>	Clear the binding entry with the Interface

hcpv6 snooping statistics

Command Mode

Privileged EXEC

Default

No default is defined.

Usage

This command is used to clear dynamic DHCPv6 snooping binding item.

clear dhcpv6 snooping statistics

Use the clear dhcpv6 snooping statistics privileged EXEC command on the switch to clear the DHCPv6 snooping statistics counters.

Command Syntax

clear dhcpv6 snooping statistics

Command Mod

Privileged EXEC

Default

No default is defined.

Usage

This command is used to clear DHCPv6 snooping statistics.

Examples

This example shows how to clear the DHCPv6 snooping statistics counters: Switch# clear dhcpv6 snooping

statistics

dhcpv6 snooping

Use the dhcpv6 snooping global configuration command on the switch to globally enable DHCPv6 snooping. Use the no form of this command to return to the default setting.

Command Syntax

dhcpv6 snooping no dhcpv6 snooping

Command Mode

Global Configuration

Default

DHCPv6 snooping is disabled.

Usage

For any DHCPv6 snooping configuration to take effect, you must globally enable DHCPv6 snooping. DHCPv6 snooping is not active until you enable snooping on a VLAN by using the dhcpv6 snooping vlan global configuration command.

Examples

This example shows how to enable DHCPv6 snooping:

```
Switch(config)# dhcpv6 snooping
```

You can verify your settings by entering the show dhcpv6 snooping config privileged EXEC command.

dhcpv6 snooping binding

Use the dhcpv6 snooping binding global configuration command on the switch to configure the DHCPv6 snooping binding database and to add binding entries to the database.

Command Syntax

dhcpv6 snooping binding mac *MAC-ADDRESS* **vlan** *VLAN-ID* **ipv6** *IP-ADDRESS*

interface *IFNAME* **expiry** *SECONDS*

no dhcpv6 snooping bindings (**ipv6** *IP-ADDRESS* | **mac** *MAC-ADDRESS* | **vlan** *VLAN-ID* |

interface *IFNAME* /)

mac <i>MAC-ADDRESS</i>	Specify a MAC address
vlan <i>VLAN-ID</i>	Specify a VLAN number. The range is 1 to 4094
ipv6 <i>IP-ADDRESS</i>	Specify an IPv6 address
interface <i>IFNAME</i>	Specify an interface on which to add or delete a binding entry
expiry <i>SECONDS</i>	Specify the interval (in seconds) after which the binding entry is no longer valid. The range is 0 to 86400

Command Mode

Global Configuration

Default

No default database is defined.

Usage

Use this command when you are testing or debugging the switch.

In the DHCPv6 snooping binding database, each database entry, also referred to a binding, has an IP address, an associated MAC address, the lease time, the interface to which the binding applies, and the VLAN to which the interface belongs.

Use the `show dhcpv6 snooping binding` privileged EXEC command to display the configured bindings.

Examples

This example shows how to generate a DHCPv6 binding with an expiration time of 1000 seconds on a port in VLAN 1:

```
Switch(config)# dhcpv6 snooping binding mac 0001.000c.01ef vlan 1 ipv6 2001:1::1 interface eth-0-1 expiry 1000
```

Related Commands

show dhcpv6 snooping binding

dhcpv6 snooping database

Use the `dhcpv6 snooping database global configuration` command on the switch to configure the DHCPv6 snooping binding database agent. Use the `no` form of this command to reset the write-delay value.

Command Syntax

dhcpv6 snooping database auto-save interval *SECONDS*

dhcpv6 snooping trust

Use the dhcpv6 snooping trust interface configuration command on the switch to configure a port as trusted for DHCPv6 snooping purposes. Use the no form of this command to return to the default setting.

Command Syntax

dhcpv6 snooping trust

no dhcpv6 snooping trust

Command Mode

Interface configuration

dhcpv6 snooping vlan

Use the dhcpv6 snooping vlan global configuration command on the switch to enable DHCPv6 snooping on a VLAN. Use the no form of this command to return to the default setting.

Command Syntax

dhcpv6 snooping vlan *VLAN-RANGE*

no dhcpv6 snooping vlan *VLAN-RANGE*

VLAN-RANGE	Specify a VLAN ID or a range of VLANs on which to enable DHCP snooping. The range is 1 to 4094
------------	--

debug dhcpv6 snooping

Use this command to turn on the debug switches of dhcpv6 snooping module. To restore the default, use the **no** form of this command

Command Syntax

debug dhcpv6 snooping (*events* | *error* | *dump* | *packet* | *all*)

no debug dhcpv6 snooping (*events* | *error* | *dump* | *packet* | *all*)

events	Snooping events
error	Error DHCPv6 message
packet	DHCPv6 message fields
dump	Dump message in hex format
all	Turn all debugging on

show dhcpv6 snooping binding

Use the show dhcpv6 snooping binding privileged EXEC command to display the DHCPv6 snooping binding database and configuration information for all interfaces on a switch.

Command Syntax

show dhcpv6 snooping binding (**all** | **manual** | **learning** (**ipv4** *IP-ADDRESS* | **mac** *MAC-ADDRESS* | **vlan** *VLAN-ID* | **interface** *IFNAME* |) **summary**)

all	Display all entries
manual	Display static entries
learning	Display dynamic entries
mac <i>MAC-ADDRESS</i>	Specify MAC address
vlan <i>VLAN-ID</i>	Specify a VLAN number. The range is 1 to 4094
ipv4 <i>IP-ADDRESS</i>	Specify an IP address
interface <i>IFNAME</i>	Specify an interface on which to add or delete a binding entry
summary	Display summary information of DHCPv6 snooping bindings

Examples

The following is sample output from the show dhcpv6 snooping binding command: Switch# show dhcpv6 snooping binding all

DHCPv6 snooping binding table:

VLAN MAC Address Interface Lease(s) IPv6 Address= 1 0001.0001.0001 eth-0-2 static 1:1::1:1

Switch# show dhcpv6 snooping binding summary

Total 1 DHCPv6 snooping binding entrie learning entry, 1 configured entry

Related Commands

dhcpv6 snooping binding

show dhcpv6 snooping config

Use the show dhcpv6 snooping privileged EXEC command to display the DHCPv6 snooping configuration.

Command Syntax

show dhcpv6 snooping config

Command Mode

Privileged EXEC

Default

None

Usage

This command is used to display the configuration of DHCPv6 snooping.

Examples

The following is sample output from the show dhcpv6 snooping config command: Switch# show dhcpv6 snooping config

dhcpv6 snooping service: enabled dhcpv6 snooping switch: enabled dhcpv6 snooping vlan 3

Related Commands

dhcpv6 snooping dhcpv6 snooping vlan

show dhcpv6 snooping trusted-sources

Use the show dhcpv6 snooping trusted-sources privileged EXEC command to display the DHCPv6 snooping trusted interface.

Command Syntax

show dhcpv6 snooping trusted-sources

Command Mode
Privileged EXEC

Default

None

Usage

This command is used to display the trusted interface of DHCPv6 snooping.

Examples

The following is sample output from the show dhcpv6 snooping trusted-sources command:

Switch# show dhcpv6 snooping trusted-source

List of DHCPv6 snooping trusted interface(s):

Related Commands

dhcpv6 snooping trust

—

show dhcpv6 snooping statistics

Use the show dhcpv6 snooping statistics privileged EXEC command to display DHCPv6 snooping statistics.

Command Syntax

show dhcpv6 snooping statistics

Command Mode

Privileged EXEC

Default

None

Usage

This command is used to display the statistics of DHCPv6 snooping

Examples

The following is sample output from the show dhcpv6 snooping statistics command: Switch# show dhcpv6 snooping statistics

DHCPv6 snooping statistics: =====

Packets forwarded	137
Packets invalid	0
Packets dropped	0

Related Commands

clear dhcpv6 snooping statistics

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