# Show Commands

This chapter describes the Cisco NX-OS IGMP snooping **show** commands.

# show forwarding distribution ip igmp snooping

To display information about Layer 2 IGMP snooping multicast Forwarding Information Base (FIB) distribution, use the **show forwarding distribution ip igmp snooping** command.

**show forwarding distribution ip igmp snooping** [**vlan** *vlan-id* [**group** *group-addr* [**source** *source-addr*]]]

| Syntax Description | | |
|---|---|---|
| **vlan** *vlan-id* | (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. | |
| **group** *group-addr* | (Optional) Specifies a group address. | |
| **source** *source-addr* | (Optional) Specifies a source address. | |

**Command Default**    None

**Command Modes**    Any command mode

| Command History | Release | Modification |
|---|---|---|
| | 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    This command does not require a license.

**Examples**    This example shows how to display information about Layer 2 IGMP snooping multicast FIB distribution:

```
switch(config)# show forwarding distribution ip igmp snooping
```

| Related Commands | Command | Description |
|---|---|---|
| | **test forwarding distribution perf** | Tests the forwarding distribution performance of the Forwarding Information Base (FIB). |

# show ip igmp snooping

To display information about IGMP snooping, use the **show ip igmp snooping** command.

**show ip igmp snooping** [**vlan** *vlan-id*]

| Syntax Description | **vlan** *vlan-id* | (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. The default is all VLANs. |
| --- | --- | --- |

**Command Default**    Displays all VLANs.

**Command Modes**    Any command mode

| Command History | Release | Modification |
| --- | --- | --- |
| | 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    This command does not require a license.

**Examples**    This example shows how to display information about IGMP snooping for a VLAN:

```
switch(config)# show ip igmp snooping vlan 20
IGMP Snooping information for vlan 20
  IGMP snooping enabled
  Optimised Multicast Flood (OMF) disabled
  IGMP querier none
  Switch-querier disabled
  IGMPv3 Explicit tracking enabled
  IGMPv2 Fast leave disabled
  IGMPv1/v2 Report suppression enabled
  IGMPv3 Report suppression disabled
  Link Local Groups suppression enabled
  Router port detection using PIM Hellos, IGMP Queries
  Number of router-ports: 1
  Number of groups: 0
  Active ports:
    Eth1/21    Po100
switch(config)#
```

# show ip igmp snooping event-history

To display information in the IGMP snooping event history buffers, use the **show ip igmp snooping event-history** command.

> **show ip igmp snooping event-history** {**vpc** | **igmp-snoop-internal** | **mfdm** | **mfdm-sum** | **vlan** | **vlan-events**}

**Syntax Description**

| | |
|---|---|
| **vpc** | Displays the event history buffer of type virtual port channel (vPC). |
| **igmp-snoop-internal** | Displays the event history buffer of type IGMP snooping internal. |
| **mfdm** | Displays the event history buffer of type multicast FIB distribution (MFDM). |
| **mfdm-sum** | Displays the event history buffer of type MFDM sum. |
| **vlan** | Displays the event history buffer of type VLAN. |
| **vlan-events** | Displays the event history buffer of type VLAN events. |

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    This command does not require a license.

**Examples**    This example shows how to display information in the IGMP snooping VLAN event history buffer:

```
switch(config)# show ip igmp snooping event-history vlan

 vlan Events for IGMP snoopprocess
2008 Apr 12 06:30:47.790031 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:30:47.790012 igmp [4588]: : IGMPv3 proxy report: no records to se
nd
2008 Apr 12 06:30:47.789882 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:30:47.789740 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:30:47.789721 igmp [4588]: : IGMPv3 proxy report: no records to se
nd
2008 Apr 12 06:30:47.789584 igmp [4588]: : IGMPv3 proxy report: no routers found
2008 Apr 12 06:13:17.022028 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:17.022023 igmp [4588]: : Received a STP Topology change notifi
cation
2008 Apr 12 06:13:15.022294 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:15.022289 igmp [4588]: : Received a STP Topology change notifi
```

```
cation
2008 Apr 12 06:13:14.662417 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:14.662412 igmp [4588]: : Received a STP Topology change notifi
cation
2008 Apr 12 06:13:12.642393 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:12.642388 igmp [4588]: : Received a STP Topology change notifi
cation
2008 Apr 12 06:13:11.946051 igmp [4588]: : Received a STP Topology change notifi
cation, 1 vlans
2008 Apr 12 06:13:11.946046 igmp [4588]: : Received a STP Topology change notifi
cation
<--Output truncated-->
switch(config)#
```

| Related Commands | Command | Description |
|---|---|---|
| | **ip igmp snooping event-history** | Configures the size of the IGMP snooping event history buffers. |
| | **clear ip igmp snooping event-history** | Clears information in the IGMP snooping event history buffers. |

# show ip igmp snooping explicit-tracking

To display information about explicit tracking for IGMP snooping, use the **show ip igmp snooping explicit-tracking** command.

> **show ip igmp snooping explicit-tracking** [**vlan** *vlan-id*]

| Syntax Description | | |
|---|---|---|
| **vlan** *vlan-id* | (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. | |

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    When you use this command without the optional **vlan** argument, the system displays information for all VLANs.

This command does not require a license.

**Examples**    This example shows how to display information about explicit tracking for IGMP snooping for VLAN 33:

```
switch# show ip igmp snooping explicit-tracking vlan 33
```

**Related Commands**

| Command | Description |
|---|---|
| **clear ip igmp snooping explicit-tracking vlan** | Clears the IGMP snooping explicit host tracking information for VLANs. |
| **ip igmp snooping explicit-tracking** | Enables tracking of IGMPv3 membership reports from individual hosts for each port on a VLAN. |

# show ip igmp snooping groups

To display information about the group membership for IGMP snooping, use the **show ip igmp snooping groups** command.

**show ip igmp snooping groups** [{*source* [*group*]} | {*group* [*source*]}] [**vlan** *vlan-id*] [**detail**]

**Syntax Description**

| | |
|---|---|
| *source* | (Optional) Source address for route. |
| *group* | (Optional) Group address for route. |
| **vlan** *vlan-id* | (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. |
| **detail** | (Optional) Displays detailed information for the group. |

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    This command does not require a license.

**Examples**    This example shows how to display information about the group membership for IGMP snooping:

```
switch(config)# show ip igmp snooping groups
TType: S - Static, D - Dynamic, R - Router port

Vlan   Group Address      Ver   Type  Port list
20     */*                 -    R     Vlan20
switch(config)#
```

# show ip igmp snooping mrouter

To display the multicast routers detected by IGMP snooping, use the **show ip igmp snooping mrouter** command.

**show ip igmp snooping mrouter** [**vlan** *vlan-id*]

**Syntax Description**

| | |
|---|---|
| **vlan** *vlan-id* | (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. |

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    This command does not require a license.

**Examples**    This example shows how to display the multicast routers detected by IGMP snooping:

```
switch(config)# show ip igmp snooping mrouter
Type: S - Static, D - Dynamic, V - vPC Peer Link
Type: S - Static, D - Dynamic, V - vPC Peer Link, I - Internal
Vlan  Router-port  Type     Uptime     Expires
20    Vlan20       I        04:16:16   never (down)

switch(config)#
```

# show ip igmp snooping querier

To display information about IGMP snooping queriers, use the **show ip igmp snooping querier** command.

> **show ip igmp snooping querier** [**vlan** *vlan-id*]

| Syntax Description | **vlan** *vlan-id* | (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. |
|---|---|---|

**Command Default**     None

**Command Modes**     Any command mode

| Command History | Release | Modification |
|---|---|---|
| | 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**     This command does not require a license.

**Examples**     This example shows how to display information about IGMP snooping queriers:

```
switch(config)# show ip igmp snooping querier
```

# show ip igmp snooping statistics

To display information about IGMP snooping statistics, use the **show ip igmp snooping statistics** command.

> **show ip igmp snooping statistics** [**vlan** *vlan-id* | **global**]

**Syntax Description**

| | |
|---|---|
| **vlan** *vlan-id* | (Optional) Specifies a VLAN. The range is from 1 to 3967 and 4048 to 4093. |
| **global** | (Optional) Specifies the global statistics. |

**Command Default**    None

**Command Modes**    Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.2(1)N1(1) | This command was introduced. |

**Usage Guidelines**    When you use this command without any options, the system prints statistics for all VLANs.

This command does not require a license.

**Examples**    This example shows how to display information about IGMP snooping statistics for VLAN 1:

```
switch(config)# show ip igmp snooping statistics vlan 1
```