



# Show Commands

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

# show ip igmp event-history

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

```
show ip igmp event-history { clis | debugs | errors | events | ha | igmp-internal | msgs | mtrace |
                             policy | statistics | vrf }
```

## Syntax Description

<b>clis</b>	Displays events of type CLI.
<b>debugs</b>	Displays events of type debug.
<b>errors</b>	Displays events of type error.
<b>events</b>	Displays events of type event.
<b>ha</b>	Displays events of type HA.
<b>igmp-internal</b>	Displays events of type IGMP internal.
<b>msgs</b>	Displays events of type msg.
<b>mtrace</b>	Displays events of type mtrace.
<b>policy</b>	Displays events of type policy.
<b>statistics</b>	Displays events of type statistics.
<b>vrf</b>	Displays events of type VRF.

## Command Default

None

## Command Modes

Any command mode

## Supported User Roles

network-admin  
network-operator  
vdc-admin  
vdc-operator

## Command History

Release	Modification
6.0(2)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 HA event history buffer:

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

ha events for IGMP process
2008 Apr 12 04:01:32.339950 igmp [4588]: : Router-port PSS entry for vlan 20 upd
```

```
ated [count 0]
2008 Apr 12 04:00:05.118545 igmp [4588]: : Handling existing vlans notification
2008 Apr 12 04:00:04.824730 igmp [4588]: : PSS entry for global updatedswitch(config)#
```

**Related Commands**

Command	Description
<b>clear ip igmp event-history</b>	Clears the contents of the IGMP event history buffers.
<b>ip igmp event-history</b>	Configures the size of IGMP event history buffers.

# show ip igmp groups

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

```
show ip igmp groups [{source [group]} | {group [source]}] [ethernet slot/port | port-channel
channel-number[.sub_if_number] | vethernet veth-id | vlan vlan-id] [vrf {vrf-name | all}]
```

## Syntax Description

<i>source</i>	Source IP address.
<i>group</i>	(Optional) Multicast IP address of the single group to display.
<b>ethernet</b> <i>slot/port</i>	(Optional) Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.
<b>port-channel</b> <i>number</i>	(Optional) Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
<i>sub_if_number</i>	(Optional) Subinterface number. The range is from 1 to 4093.
<b>vethernet</b> <i>veth-id</i>	(Optional) Specifies the virtual Ethernet interface. The interface number can be from 1 to 1,048,575.
<b>vlan</b> <i>vlan-id</i>	(Optional) Specifies the VLAN. The range is from 1 to 4094.
<b>vrf</b>	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
<b>all</b>	Specifies all VRFs.

## Command Default

None

## Command Modes

Any command mode

## Supported User Roles

network-admin  
network-operator  
vdc-admin  
vdc-operator

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Usage Guidelines

The **show ip igmp route** command is an alternative form of this command.  
This command does not require a license.

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**Examples**

This example shows how to display information about the IGMP-attached group membership:

```
switch(config)# show ip igmp groups
IGMP Connected Group Membership for VRF "default" - 0 total entries
Type: S - Static, D - Dynamic, L - Local, T - SSM Translated
Group Address      Type Interface      Uptime    Expires    Last Reporter
switch(config)#
```

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**Related Commands**

Command	Description
<b>show ip igmp route</b>	Displays information about the IGMP-attached group membership.

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# show ip igmp interface

To display information about IGMP on interfaces, use the **show ip igmp interface** command.

```
show ip igmp interface { ethernet slot/port | port-channel channel-number[.sub_if_number] |
  vethernet veth-id | vlan vlan-id }
```

```
show ip igmp interface [brief] [vrf {vrf-name | all}]
```

## Syntax Description

<b>ethernet</b> <i>slot/port</i>	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.
<b>port-channel</b> <i>number</i>	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
<i>sub_if_number</i>	Subinterface number. The range is from 1 to 4093.
<b>vethernet</b> <i>veth-id</i>	Specifies the virtual Ethernet interface. The range is from 1 to 1,048,575.
<b>vlan</b> <i>vlan-id</i>	Specifies the VLAN. The range is from 1 to 4094.
<b>brief</b>	(Optional) Displays one line status per interface.
<b>vrf</b>	(Optional) Applies to a virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
<b>all</b>	Specifies all VRFs.

## Command Default

None

## Command Modes

Any command mode

## Supported User Roles

network-admin  
network-operator  
vdc-admin  
vdc-operator

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.
4.1(3)	Changed output to include vPC information when IGMP is in vPC mode.

## Usage Guidelines

This command does not require a license.

**Examples**

This example shows how to display information about IGMP on an interface (if IGMP is not in vPC mode, the vPC information is not displayed):

```
switch(config)# show ip igmp interface vlan 5
IGMP Interfaces for VRF "default"
Vlan20, Interface status: protocol-down/link-down/admin-down
  IP address: 20.1.1.3, IP subnet: 20.1.1.0/24
  Active querier: 0.0.0.0
  Membership count: 0
  Old Membership count 0
  Route-queue depth: 0
  IGMP version: 2, host version: 0
  IGMP query interval: 125 secs, configured value: 125 secs
  IGMP max response time: 10 secs, configured value: 10 secs
  IGMP startup query interval: 31 secs, configured value: 31 secs
  IGMP startup query count: 2
  IGMP last member mrt: 1 secs
  IGMP last member query count: 2
  IGMP group timeout: 260 secs, configured value: 260 secs
  IGMP querier timeout: 255 secs, configured value: 255 secs
  IGMP unsolicited report interval: 10 secs
  IGMP robustness variable: 2, configured value: 2
  IGMP reporting for link-local groups: disabled
  IGMP interface enable refcount: 1
  IGMP interface immediate leave: disabled
  IGMP Report Policy: None
  IGMP State Limit: None
  IGMP interface statistics:
    General (sent/received):
      v1-reports: 0/0
      v2-queries: 0/0, v2-reports: 0/0, v2-leaves: 0/0
      v3-queries: 0/0, v3-reports: 0/0
    Errors:
      General Queries received with invalid destination address; v2: 0, v3: 0
      Checksum errors: 0, Packet length errors: 0
      Packets with Local IP as source: 0, Source subnet check failures: 0
      Query from non-querier:0
      Report version mismatch: 0, Query version mismatch: 0
      Unknown IGMP message type: 0
      Invalid v1 reports: 0, Invalid v2 reports: 0, Invalid v3 reports: 0
      Packets dropped due to router-alert check: 0
  Interface PIM DR: No
  Interface vPC CFS statistics:
    DR queries sent: 0
    DR queries rcvd: 0
    DR queries fail: 0
    DR updates sent: 0
    DR updates rcvd: 0
    DR updates fail: 0
switch(config)#
```

This example shows how to display information about IGMP on an interface in a brief format:

```
switch(config)# show ip igmp interface brief
IGMP Interfaces for VRF "default", count: 1
Interface          IP Address      IGMP Querier    Membership  Version
Count
Vlan20             20.1.1.3        0.0.0.0         0           v2
switch(config)#
```

# show ip igmp local-groups

To display information about IGMP local groups, use the **show ip igmp local-groups** command.

```
show ip igmp local-groups [ethernet slot/port | port-channel channel-number[.sub_if_number] |
vethernet veth-id | vlan vlan-id] [vrf {vrf-name | all}]
```

Syntax Description		
<b>ethernet</b> <i>slot/port</i>	Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.	
<b>port-channel</b> <i>number</i>	Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.	
<i>sub_if_number</i>	Subinterface number. The range is from 1 to 4093.	
<b>vethernet</b> <i>veth-id</i>	Specifies the virtual Ethernet interface. The range is from 1 to 1,048,575.	
<b>vlan</b> <i>vlan-id</i>	Specifies the VLAN. The range is from 1 to 4094.	
<b>vrf</b>	(Optional) Applies to a virtual routing and forwarding (VRF) instance.	
<i>vrf-name</i>	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.	
<b>all</b>	Specifies all VRFs.	

**Command Default** None

**Command Modes** Any command mode

**Supported User Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

Command History	Release	Modification
	6.0(2)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 local groups:

```
switch(config)# show ip igmp local-groups
```



# show ip igmp route

To display information about the IGMP-attached group membership, use the **show ip igmp route** command.

```
show ip igmp route [{source [group]} | {group [source]}] [ethernet slot/port | port-channel
channel-number[.sub_if_number] | vethernet veth-id | vlan vlan-id] [vrf {vrf-name | all}]
```

Syntax Description		
<i>source</i>		Source IP address.
<i>group</i>		(Optional) Multicast IP address of single group to display.
<b>ethernet</b> <i>slot/port</i>		Specifies the Ethernet interface and the slot number and port number. The slot number is from 1 to 255, and the port number is from 1 to 128.
<b>port-channel</b> <i>number</i>		Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
<i>sub_if_number</i>		Subinterface number. The range is from 1 to 4093.
<b>vethernet</b> <i>veth-id</i>		Specifies the virtual Ethernet interface. The range is from 1 to 1,048,575.
<b>vlan</b> <i>vlan-id</i>		Specifies the VLAN. The range is from 1 to 4094.
<b>vrf</b>		(Optional) Applies to a virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>		VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
<b>all</b>		Specifies all VRFs.

**Command Default** None

**Command Modes** Any command mode

**Supported User Roles** network-admin  
network-operator  
vdc-admin  
vdc-operator

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Usage Guidelines** The **show ip igmp groups** command is an alternative form of this command. This command does not require a license.

**Examples**

This example shows how to display information about the IGMP-attached group membership:

```
switch# show ip igmp route
IGMP Connected Group Membership for VRF "default" - 1 total entries
Type: S - Static, D - Dynamic, L - Local, T - SSM Translated
Group Address      Type Interface      Uptime   Expires   Last Reporter
230.0.0.0          S    Ethernet1/5        00:31:47 never     0.0.0.0
switch#
```

**Related Commands**

Command	Description
<b>show ip igmp groups</b>	Displays information about the IGMP-attached group membership.

# show running-config igmp

To display information about the running-system configuration for IGMP, use the **show running-config igmp** command.

**show running-config igmp [all]**

<b>Syntax Description</b>	<b>all</b> (Optional) Displays configured and default information.
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<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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<b>SupportedUserRoles</b>	network-admin network-operator vdc-admin vdc-operator
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Base Services license.
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<b>Examples</b>	This example shows how to display information about the IGMP running-system configuration:
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```
switch(config)# show running-config igmp

!Command: show running-config igmp
!Time: Fri May 2 08:05:08 2008

version 5.0(3)N1(1)

interface Ethernet1/5
  ip igmp static-oif 230.0.0.0

switch(config)#
```

# show startup-config igmp

To display information about the startup-system configuration for IGMP, use the **show startup-config igmp** command.

**show startup-config igmp [all]**

<b>Syntax Description</b>	<b>all</b> (Optional) Displays configured and default information.
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<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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<b>SupportedUserRoles</b>	network-admin network-operator vdc-admin vdc-operator
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Base Services license.
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<b>Examples</b>	This example shows how to display information about the IGMP startup-system configuration:  switch(config)# <b>show startup-config igmp</b>
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