



## IGMP Snooping Commands

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- [ip igmp snooping enable \(Global\), on page 2](#)
- [ip igmp snooping querier enable, on page 3](#)
- [ip igmp snooping vlan enable, on page 4](#)
- [ip igmp snooping vlan forbidden mrouter, on page 5](#)
- [ip igmp snooping vlan immediate-leave, on page 6](#)
- [ip igmp snooping vlan querier address, on page 7](#)
- [ip igmp snooping vlan querier version, on page 8](#)
- [ip igmp snooping vlan querier enable, on page 9](#)

## ip igmp snooping enable (Global)

To enable Internet Group Management Protocol (IGMP) snooping, use the **ip igmp snooping enable** command in switch configuration mode. To return to the default, use the **no** form of this command.

**ip igmp snooping enable**  
**no ip igmp snooping enable**

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<b>Syntax Description</b>	This command does not have any arguments
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<b>Command Default</b>	Disabled
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<b>Command Modes</b>	Switch configuration (config-switch)
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	3.5.1	This command was introduced.

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### Example

The following example enables IGMP snooping:

```
nfvis(config-switch)# ip igmp snooping enable
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

# ip igmp snooping querier enable

To enable IGMP Snooping querier globally, use the **ip igmp snooping querier enable** command in switch configuration mode. To disable the IGMP Snooping querier globally, use the **no** form of this command.

**ip igmp snooping querier enable**  
**no ip igmp snooping querier enable**

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**Syntax Description**

This command has no arguments.

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**Command Default**

Enabled

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**Command Modes**

Switch configuration (config-switch)

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**Command History**

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**Release Modification**

3.5.1 This command was introduced.

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**Usage Guidelines**

To run the IGMP Snooping querier on a VLAN, you have to enable it globally and on the VLAN.

## Example

The following example disables the IGMP Snooping querier globally:

```
nfvis(config-switch)# no ip igmp snooping querier enable
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

## ip igmp snooping vlan enable

To enable IGMP snooping on a specific VLAN, use the **ip igmp snooping vlan enable** command in switch configuration mode. To return to the default, use the **no** form of this command.

```
ip igmp snooping VLAN vlan-id enable
no ip igmp snooping VLAN vlan-id enable
```

<b>Syntax Description</b>	<i>vlan-id</i> Specifies the VLAN.				
<b>Command Default</b>	Disabled				
<b>Command Modes</b>	Switch configuration (config-switch)				
<b>Command History</b>	<table border="1"> <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.				
<b>Usage Guidelines</b>	<p>IGMP snooping can be enabled only on static VLANs.</p> <p>IGMPv1, IGMPv2, and IGMPv3 snooping are supported.</p> <p>To activate IGMP snooping, bridge multicast filtering must be enabled using the <b>bridge multicast filtering</b> command.</p>				

### Example

The following example enables IGMP snooping on VLAN 2:

```
nfvis(config-switch)# ip igmp snooping vlan 2 enable
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

# ip igmp snooping vlan forbidden mrouter

To forbid a Gigabit Ethernet or port channel port from being defined as a Multicast router port by static configuration or by automatic learning, use the **ip igmp snooping vlan forbidden mrouter** command in switch configuration mode. To return to the default, use the **no** form of this command.

**ip igmp snooping vlan** *vlan-id* **forbidden mrouter interface** { **gigabitEthernet** | **port-channel** } *interface-id*

**no ip igmp snooping vlan** *vlan-id* **forbidden mrouter interface**

Syntax Description	Parameter	Description
	<b>vlan</b> <i>vlan-id</i>	Specifies the VLAN ID.
	<b>interface</b>	Specifies the interface type.
	<b>gigabitEthernet</b>	Specifies Gigabit Ethernet as the interface type.
	<b>port-channel</b>	Specifies port channel as the interface type.
	<i>interface-id</i>	Specifies the interface ID.

**Command Default** No ports are defined.

**Command Modes** Switch configuration mode (config-switch)

Command History	Release	Modification
	3.6.1	The port-channel parameter was added.
	3.5.1	This command was introduced.

**Usage Guidelines** A port that is defined as a Multicast router port receives all IGMP packets (reports and queries) as well as all multicast data.

You can execute the command before the VLAN is created.

## Example

```
nfviz(config-switch)# ip igmp snooping vlan 2 forbidden mrouter interface gigabitEthernet 1/1
```

```
nfviz(config-switch)# commit
nfviz(config-switch)# end
```

## ip igmp snooping vlan immediate-leave

To enable the IGMP Snooping Immediate-Leave processing on a VLAN, use the **ip igmp snooping vlan immediate-leave** command in switch configuration mode. To return to the default, use the **no** form of this command.

```
ip igmp snooping VLAN vlan-id immediate-leave
no ip igmp snooping VLAN vlan-id immediate-leave
```

<b>Syntax Description</b>	<i>vlan-id</i> Specifies the VLAN ID.				
<b>Command Default</b>	Disabled				
<b>Command Modes</b>	Switch configuration (config-switch)				
<b>Command History</b>	<table border="1"> <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.				
<b>Usage Guidelines</b>	You can run this command before creating the VLAN.				

### Example

The following example enables IGMP snooping immediate-leave feature on VLAN 2.

```
nfvis(config-switch)# ip igmp snooping vlan 2 immediate-leave
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

# ip igmp snooping vlan querier address

To define the source IP address that the IGMP snooping querier uses, use the **ip igmp snooping vlan querier address** command in switch configuration mode. To return to the default, use the **no** form of this command.

```
ip igmp snooping VLAN vlan-id querier address ip-address  
no ip igmp snooping VLAN vlan-id querier address ip-address
```

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**Syntax Description**

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*vlan-id* Specifies the VLAN.

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*ip-address* Define the source IP address.

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**Command Default**

If an IP address is configured for the VLAN, it is used as the source address of the IGMP snooping querier. If there are multiple IP addresses, the minimum IP address defined on the VLAN is used.

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**Command Modes**

Switch configuration (config-switch)

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**Command History**

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**Release Modification**

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3.5.1 This command was introduced.

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**Usage Guidelines**

If an IP address is not configured by this command, and no IP address is configured for the querier's VLAN, the querier is disabled.

**Example**

```
nfvis(config-switch)# ip igmp snooping vlan 1 querier address 192.0.2.1  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

## ip igmp snooping vlan querier version

To configure the IGMP version of an IGMP Snooping querier on a specific VLAN, use the **ip igmp snooping vlan querier version** command in interface switch configuration mode. To return to the default, use the **no** form of this command.

```
ip igmp snooping VLAN vlan-id querier version {2 | 3}
no ip igmp snooping VLAN vlan-id querier version {2 | 3}
```

<b>Syntax Description</b>	<i>vlan-id</i> Specifies the VLAN.				
	<b>version 2</b> Specifies that the IGMP version would be IGMPv2.				
	<b>version 3</b> Specifies that the IGMP version would be IGMPv3.				
<b>Command Default</b>	IGMPv2.				
<b>Command Modes</b>	Interface switch configuration (config-switch-if)				
<b>Command History</b>	<table border="1"> <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 sets the version of the IGMP Snooping Querier VLAN 1 to 3:

```
nfvis(config-switch)# ip igmp snooping vlan 1 querier version 3
```



## ip igmp snooping vlan querier enable

To enable the IGMP Snooping querier on a specific VLAN, use the **ip igmp snooping vlan querier enable** command in switch configuration mode. To disable the IGMP Snooping querier on the VLAN interface, use the **no** form of this command.

```
ip igmp snooping VLAN vlan-id querier enable  
no ip igmp snooping VLAN vlan-id querier
```

<b>Syntax Description</b>	<i>vlan-id</i> Specifies the VLAN ID.
<b>Command Default</b>	Disabled
<b>Command Modes</b>	Switch configuration (config-switch)
<b>Command History</b>	<b>Release Modification</b> 3.5.1 This command was introduced.
<b>Usage Guidelines</b>	The IGMP Snooping querier can be enabled on a VLAN only if IGMP Snooping is enabled for that VLAN.

### Example

The following example enables the IGMP Snooping querier on VLAN 1:

```
nfvis(config-switch)# ip igmp snooping vlan 1 querier enable  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

```
ip igmp snooping vlan querier enable
```