

show igmp mode

Use the **show igmp mode** command to display the igmp mode on the switch.

```
show igmp mode
```

Syntax Description This command has no keywords or arguments.

Defaults This command has no default settings.

Command Types Switch.

Command Modes Normal.

Usage Guidelines The switch dynamically chooses either IGMP-only or IGMP/CGMP mode, depending on the traffic present on the network. IGMP-only mode is used in networks with no CGMP devices. IGMP/CGMP mode is used in networks with both IGMP and CGMP devices.

The **show igmp mode** command output includes three fields:

- IGMP Mode—Possible values are auto, igmp-only, and igmp-cgmp.
- IGMP-Operational-Mode—Possible values are igmp-only and igmp-cgmp.
- IGMP Address Aliasing Mode—Possible values are normal and fallback.

Examples This example shows how to display the igmp mode:

```
Console> show igmp mode  
IGMP Mode: auto  
IGMP Operational Mode: igmp-only  
IGMP Address Aliasing Mode: normal  
Console>
```

Related Commands **set igmp mode**

show igmp statistics

Use the **show igmp statistics** command to view IGMP statistics for a particular VLAN.

```
show igmp statistics [vlan_id]
```

Syntax Description	<i>vlan_id</i> (Optional) VLAN for which to show IGMP statistics.
Defaults	If no VLAN is specified, statistics for VLAN 1 are shown.
Command Types	Switch command.
Command Modes	Normal.
Usage Guidelines	This command is supported by the Catalyst 5000 family switches and the Catalyst 2926G series switches.

Examples This example shows how to view IGMP statistics for VLAN 1:

```
Console> show igmp statistics 1
IGMP disabled
IGMP fastleave enabled

IGMP statistics for vlan 1:
Total valid pkts rcvd:          18951
Total invalid pkts rcvd         0
General Queries rcvd           377
Group Specific Queries rcvd     0
MAC-Based General Queries rcvd 0
Leaves rcvd                     14
Reports rcvd                    16741
Queries Xmitted                 0
GS Queries Xmitted             16
Reports Xmitted                 0
Leaves Xmitted                  0
Failures to add GDA to EARL     0
Topology Notifications rcvd     10
IGMP packets dropped            0
Console>
```

Table 2-24 describes the fields in the **show igmp statistics** output.

Table 2-24 show igmp statistics Command Output Fields

Field	Description
IGMP Enabled	Status of whether IGMP snooping is enabled or disabled.
Total valid pkts rcvd	Total number of valid IGMP packets received.

Table 2-24 *show igmp statistics Command Output Fields (continued)*

Field	Description
Total invalid pkts rcvd	Total number of invalid IGMP packets received.
General Queries rcvd	Total number of IGMP general queries received.
Group Specific Queries rcvd	Total number of IGMP group-specific queries received.
MAC-Based General Queries rcvd	Total number of MAC-based general queries received.
Leaves rcvd	Total number of IGMP leaves received.
Reports rcvd	Total number of IGMP reports received.
Queries Xmitted	Total number of IGMP general queries transmitted by the switch.
GS Queries Xmitted	Total number of IGMP group specific-equivalent queries transmitted by the switch.
Reports Xmitted	Total number of IGMP reports transmitted by the switch.
Leaves Xmitted	Total number of IGMP leaves transmitted by the switch.
Failures to add GDA to EARL	Total number of times the switch failed to add a multicast entry (GDA) to the EARL table.
Topology Notifications rcvd	Total number of topology change notifications received by the switch.
IGMP packets dropped	Total number of IGMP packets dropped by the switch.

Related Commands

clear igmp statistics
clear multicast router
set igmp
set igmp fastleave
set multicast router
show multicast router
show multicast group count

show imagemib

Use the **show imagemib** command to display image information provided in the CISCO-IMAGE-MIB for a particular image.

```
show imagemib flash [filename]
```

Syntax Description	
<i>flash</i>	Name of the Flash image on the Supervisor Engine II.
<i>filename</i>	Name of the Flash device on the Supervisor Engine III or the Catalyst 4000 family and 2948G switch supervisor engine module.

Defaults This command has no default setting.

Command Types Switch command.

Command Modes Normal.

Examples This example shows how to display CISCO-IMAGE-MIB information for the Flash device on the Catalyst 4000 family, 2948G, and 2980G switch supervisor engine module:

```
Console> show imagemib cat4000.4-4-0-14.bin
show mib info for file cat4000.4-4-0-14.bin
show_presto_nmp_image_header : open file cat4000.4-4-0-14.bin error code = -3, )
Console>
```

This example shows how to display CISCO-IMAGE-MIB information for the Flash device on the Supervisor Engine III:

```
Console> show imagemib cat5000-sup3.5-1-1.bin
show mib info for file cat5000-sup3.5-1-1.bin
show_presto_nmp_image_header : open file cat5000-sup3.5-1-1.bin error code = -3)
```

show interface

Use the **show interface** command to display information on network interfaces and standard SNMP link trap operation.

show interface

show interface trap

Syntax Description	trap Keyword that specifies to display the trap interface.
Defaults	This command has no default setting.
Command Types	Switch command.
Command Modes	Normal.

Examples

This example shows how to display information on all network interfaces:

```
Console> show interface
me1: flags=63<UP, BROADCAST, RUNNING>
      inet 0.0.0.0 netmask 255.0.0.0 broadcast 0.0.0.0
s10: flags=51<UP, POINTOPOINT, RUNNING>
      slip 0.0.0.0 dest 0.0.0.0
sc0: flags=63<UP, BROADCAST, RUNNING>
      vlan 1 inet 171.69.199.168 netmask 255.255.255.0 broadcast 171.69.199.255
Console>
```

This example shows how to display whether the trap interface is enabled or disabled:

```
Console> (enable) show interface trap
Interface Trap
-----
sc0          enabled
me1          disabled
s10          disabled
Console> (enable)
```

Table 2-25 describes the fields in the **show interface** command output.

Table 2-25 *show interface Command Output Fields*

Field	Description
me1	Information on the me1 interface.
flags	Flags indicating the interface state (decoded in the subsequent field).
<UP,BROADCAST, RUNNING>	Interface state (UP, DOWN, BROADCAST, LOOPBACK, POINTOPOINT, or RUNNING).

Table 2-25 show interface Command Output Fields (continued)

Field	Description
inet	IP address of the interface.
netmask	Network mask for the interface.
broadcast	Broadcast address for the interface.
sl0	Information on the SLIP interface.
<UP,POINTOPOINT, RUNNING>	Interface state (UP, DOWN, BROADCAST, LOOPBACK, POINTOPOINT, or RUNNING).
slip	IP address of the SLIP interface.
dest	IP address of the host to which the console port will be connected.
sc0	Information on the in-band interface.
vlan	Number of the VLAN to which the sc0 interface has been assigned (known as the management VLAN).
Interface	Type of interface.
Trap	Status of whether the trap is enabled or disabled.

Related Commands

set interface

show ip alias

Use the **show ip alias** command to show a listing of defined IP aliases.

```
show ip alias [name]
```

Syntax Description	<i>name</i> (Optional) Alias for a specific host.
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Defaults	This command has no default setting.
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Command Types	Switch command.
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Command Modes	Normal.
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Examples	This example shows how to display a listing of all IP aliases:
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```
Console> show ip alias  
default          0.0.0.0  
sparc20          192.168.10.69  
cat5500-1        172.16.169.16  
cat5500-2        172.16.169.20  
Console>
```

Related Commands	clear ip alias set ip alias
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show ip dns

Use the **show ip dns** command to show the DNS name servers and the default DNS domain name.

show ip dns

Syntax Description This command has no arguments or keywords.

Defaults This command has no default setting.

Command Types Switch command.

Command Modes Normal.

Examples This example shows how to display the DNS name servers and the default DNS domain name:

```

Console> show ip dns
DNS is currently enabled.
The default DNS domain name is: cisco.com

DNS name server          status
-----
172.16.30.32
192.168.2.132           primary
172.31.128.70
Console>

```

Table 2-26 describes the fields in the **show ip dns** command output.

Table 2-26 show ip dns Command Output Fields

Field	Description
DNS is currently enabled	Status of whether DNS is enabled or disabled.
default DNS domain name	Default DNS domain name.
DNS name server	IP addresses or IP aliases of the configured DNS servers.
status	Primary DNS server.

Related Commands

clear ip dns domain
clear ip dns server
set ip dns
set ip dns domain
set ip dns server

show ip http

Use the **show ip http** command to view the HTTP configuration and the switch web interface information.

show ip http

Syntax Description This command has no arguments or keywords.

Defaults This command has no default setting.

Command Types Switch command.

Command Modes Normal.

Examples This example shows how to display the HTTP configuration and web interface information if the web interface is supported:

```

Console> show ip http
HTTP Configuration Information:
-----
HTTP Server: enabled
HTTP port: 80
Web Interface: Supported

Switch Information:
-----
File:  applet.html
      size: 912 bytes
      version: 5.0(0.26)
      date: 10/9/99
File:  cvembopt.jar
      size: 3500000 bytes
      version: 5.0(0.26)
      date: 10/9/99

Active Web Interface Session: 1
-----
Client IP Address: 192.20.20.45
Request Type: GET
Request URI: /all-engine.jar
Console>

```

This example shows the HTTP configuration and web interface information if the web interface is not supported:

```
Console> show ip http
HTTP Configuration Information:
-----
HTTP Server: disabled
HTTP port: 80
Web Interface: Not Supported
Console>
```

Related Commands

set ip http port
set ip http server

show ip permit

Use the **show ip permit** command to display the IP permit list information.

show ip permit [noalias]

Syntax Description	noalias (Optional) Keyword that specifies to force the display to show IP addresses, not IP aliases.
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Defaults This command has no default value.

Command Types Switch command.

Command Modes Normal.

Examples This example shows how to display IP permit list information:

```
Console> (enable) show ip permit
Telnet permit list feature enabled.
Snmp permit list feature disabled.
```

```
Permit List           Mask           Access-Type
-----
172.16.0.0           255.255.0.0   telnet
172.20.52.3
172.20.52.32        255.255.255.224 snmp

Denied IP Address    Last Accessed Time  Type    Telnet Count  SNMP Count
-----
172.100.101.104     01/20/97,07:45:20  SNMP           14           1430
172.187.206.222     01/21/97,14:23:05  Telnet          7            236
```

```
Console> (enable)
```

Table 2-27 describes the fields in the **show ip permit** command output.

Table 2-27 show ip permit Command Output Fields

Field	Description
IP permit list feature enabled	Status of whether the IP permit list feature is enabled or disabled.
Permit List	IP addresses and IP aliases that are allowed to access the switch.
Mask	Subnet masks of permitted IP addresses.
Denied IP Address	IP addresses and IP aliases that are not allowed to access the switch.

Table 2-27 *show ip permit Command Output Fields (continued)*

Field	Description
Last Accessed Time	Date and time of the last attempt to log in to the switch from the address.
Type	Login-attempt type.

Related Commands

clear ip permit
set snmp trap

show ip route

Use the **show ip route** command to display IP routing table entries.

show ip route [noalias]

Syntax Description	noalias (Optional) Keyword that specifies to force the display to show IP addresses, not IP aliases.
---------------------------	---

Defaults This command has no default setting.

Command Types Switch command.

Command Modes Normal.

Examples This example shows how to display the IP route table:

```

Console> (enable) show ip route
Fragmentation   Redirect   Unreachable
-----
enabled         enabled    enabled

Destination      Gateway      RouteMask   Flags   Use   Interface
-----
default          172.20.52.1  0x0         UG     73439  sc0
172.20.52.0     172.20.52.5  0xffffffffe0 U      4     sc0
default          default     0xff000000  UH     0     s10
Console> (enable)

```

Table 2-28 show ip route Command Output Fields

Field	Description
Fragmentation	Displays current setting of IP fragmentation.
Redirect	Displays current setting of ICMP redirect.
Unreachable	Displays current setting of ICMP unreachable messages.
Destination	Destination address IP route mask.
Gateway	IP address or IP alias of the gateway router.
RouteMask	Determines which path is closer to the destination.
Flags	Indicates route status; possible values are U=up, G=route to a Gateway, H=route to a Host, and D=Dynamically created by a redirect.
Use	Number of times a route entry was used to route packets.
Interface	Type of interface.

Related Commands

set ip route
clear ip route

show kerberos

Use the **show kerberos** command to display the Kerberos configuration.

show kerberos

Syntax Description This command has no arguments or keywords.

Defaults This command has no default setting.

Command Types Switch command.

Command Modes Normal.

Examples This example shows how to display Kerberos configuration information:

```
kerberos> (enable) show kerberos
Kerberos Local Realm:CISCO.COM
Kerberos server entries:
Realm:CISCO.COM, Server:187.0.2.1, Port:750

Kerberos Domain<->Realm entries:
Domain:cisco.com, Realm:CISCO.COM

Kerberos Clients NOT Mandatory
Kerberos Credentials Forwarding Enabled
Kerberos Pre Authentication Method set to None
Kerberos config key:
Kerberos SRVTAB Entries
Srvtab Entry 1:host/niners.cisco.com@CISCO.COM 0 932423923 1 1 8 01;;8>00>50;0=0=0
kerberos> (enable)
```

Table 2-29 describes the fields in the **show kerberos** command output.

Table 2-29 show kerberos Command Output Fields

Field	Description
Kerberos Local Realm	Shows if local realm is configured.
Kerberos server entries	Shows servers entered into the switch.
Kerberos Pre Authentication Method	Shows whether preauthentication is enabled or disabled.
Kerberos config key	Shows whether a DES key has been configured.
Kerberos SRVTAB entries	Shows the SRVTAB entries.

Related Commands show kerberos creds