

```

XXXX-IPT-CoreSW02#show ip igmp q
XXXX-IPT-CoreSW02#show ip igmp qu
XXXX-IPT-CoreSW02#show ip igmp ?
  filter          IGMP filter information
  groups          IGMP group membership information
  interface       IGMP interface information
  membership      IGMP membership information for forwarding
  profile         IGMP profile information
  snooping        Snooping info on Catalyst Vlans
  ssm-mapping     Display IGMP SSM mapping info
  static-group    Static group
  udlr           IGMP undirectional link multicast routing
information
  vrf            Select VPN Routing/Forwarding instance

```

```

XXXX-IPT-CoreSW02#show ip igmp s
XXXX-IPT-CoreSW02#show ip igmp sn
XXXX-IPT-CoreSW02#show ip igmp snooping ?
  detail          Show operational state info
  groups          Show group information
  igmpv2-tracking Show IGMPv2 tracking
  mrouter         Show routers on Catalyst Vlans
  querier        Show IGMP querier information
  vlan           Snooping info in a Catalyst Vlan
  wireless       Show wireless related events
  |              Output modifiers
<cr>

```

```

XXXX-IPT-CoreSW02#show ip igmp snooping q
XXXX-IPT-CoreSW02#show ip igmp snooping querier ?
  detail Show IGMP querier detailed information in a vlan
  vlan   Show IGMP querier information in a vlan
  |      Output modifiers
<cr>

```

```

XXXX-IPT-CoreSW02#show ip igmp snooping querier de
XXXX-IPT-CoreSW02#show ip igmp snooping querier detail
Vlan      IP Address          IGMP Version  Port
-----
1         172.16.35.254         v2            Gi1/1/3
8         172.16.35.254         v2            Gi1/1/3
9         172.16.35.254         v2            Gi1/1/3
10        172.16.35.254         v2            Gi1/1/3
11        172.16.35.254         v2            Gi1/1/3
12        172.16.35.254         v2            Gi1/1/3
20        172.16.35.254         v2            Gi1/1/3
30        172.16.35.254         v2            Gi1/1/3
33        172.16.35.254         v2            Gi1/1/3
34        172.16.35.254         v2            Gi1/1/3
35        172.16.35.254         v2            Gi1/1/3

```

Global IGMP switch querier status

admin state : Disabled
admin version : 2
source IP address : 0.0.0.0
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10

Vlan 1: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.8.29
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 8: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.8.29
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 9: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.9.253
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 10: IGMP switch querier status

admin state : Disabled (state inherited)

admin version : 2
source IP address : 172.16.10.253
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 11: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.11.253
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 12: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.12.253
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 20: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.8.29
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 30: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.8.29
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 33: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.33.253
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 34: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.34.253
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

Vlan 35: IGMP switch querier status

admin state : Disabled (state inherited)
admin version : 2
source IP address : 172.16.35.253
query-interval (sec) : 60
max-response-time (sec) : 10
querier-timeout (sec) : 120
tcn query count : 2
tcn query interval (sec) : 10
operational state : Disabled
operational version : 2
tcn query pending count : 0

XXXX-IPT-CoreSW02#show vlan

VLAN	Name	Status	Ports
1	default	active	Gi1/1/1
8	Interconnect	active	Gi1/0/11
9	Voice-Server	active	Gi1/0/12, Gi1/1/2
10	3rdParty-Phones	active	
11	Cisco-Phones	active	
12	Cisco-Phones-2	active	
20	VLAN0020	active	
30	VLAN0030	active	
33	AV	active	
34	Client	active	
35	IPTV	active	
1002	fddi-default	act/unsup	
1003	token-ring-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trnet-default	act/unsup	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
1	enet	100001	1500	-	-	-	-	0
8	enet	100008	1500	-	-	-	-	0
9	enet	100009	1500	-	-	-	-	0
10	enet	100010	1500	-	-	-	-	0
11	enet	100011	1500	-	-	-	-	0
12	enet	100012	1500	-	-	-	-	0
20	enet	100020	1500	-	-	-	-	0
30	enet	100030	1500	-	-	-	-	0
33	enet	100033	1500	-	-	-	-	0
34	enet	100034	1500	-	-	-	-	0
35	enet	100035	1500	-	-	-	-	0
1002	fddi	101002	1500	-	-	-	-	0
1003	tr	101003	1500	-	-	-	-	srb 0
1004	fdnet	101004	1500	-	-	-	ieee	- 0
1005	trnet	101005	1500	-	-	-	ibm	- 0

0

Remote SPAN VLANs

Primary Secondary Type Ports

XXXX-IPT-CoreSW02#show cdp nei
XXXX-IPT-CoreSW02#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route
Bridge
S - Switch, H - Host, I - IGMP, r - Repeater, P -
Phone,
D - Remote, C - CVTA, M - Two-port Mac Relay

Device ID Port ID	Local Intrfce	Holdtme	Capability	Platform
CUCM-2 eth0	Gig 1/1/2	144	H	VMware
XXXX-IPT-VG02.XXXX.com Gig 0/0/0	Gig 1/0/12	169	R S I	ISR4431/K
CUC-2 eth0	Gig 1/1/2	151	H	VMware
XXXX-IPT-CoreSW01 Gig 1/1/4	Gig 1/1/4	147	R S I	WS-C3850-
XXXX-IPT-CoreSW01 Gig 1/1/3	Gig 1/1/3	127	R S I	WS-C3850-
XXXX-IPT-AccessSW03 Gig 1/0/49	Gig 1/0/3	143	S I	WS-C2960X
XXXX-IPT-AccessSW02 Gig 1/0/49	Gig 1/0/2	151	S I	WS-C2960X
XXXX-IPT-AccessSW01 Gig 1/0/49	Gig 1/0/1	162	S I	WS-C2960X
XXXX-IPT-AccessSW10 Gig 1/0/49	Gig 1/0/10	152	S I	WS-C2960X
XXXX-IPT-AccessSW07 Gig 1/0/49	Gig 1/0/7	149	S I	WS-C2960X
XXXX-IPT-AccessSW06 Gig 1/0/49	Gig 1/0/6	152	S I	WS-C2960X
XXXX-IPT-AccessSW05 Gig 1/0/49	Gig 1/0/5	141	S I	WS-C2960X

```

Gig 1/0/49
XXXX-IPT-AccessSW04
          Gig 1/0/4          164          S I    WS-C2960X
Gig 1/0/49
XXXX-IPT-AccessSW09
          Gig 1/0/9          155          S I    WS-C2960X
Gig 1/0/49
XXXX-IPT-AccessSW08
          Gig 1/0/8          167          S I    WS-C2960X
Gig 1/0/49

```

```

Total cdp entries displayed : 15
XXXX-IPT-CoreSW02#show run
Building configuration...

```

```

Current configuration : 11919 bytes
!
! Last configuration change at 14:38:30 UTC Fri Oct 25 2019 by admin
!
version 16.3
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no platform punt-keepalive disable-kernel-core
!
hostname XXXX-IPT-CoreSW02
!
!
vrf definition Mgmt-vrf
!
  address-family ipv4
  exit-address-family
!
  address-family ipv6
  exit-address-family
!
enable secret 5 $1$.Gk0$B0C75dHhwoLSj1z0sNk4X1
!
no aaa new-model
switch 1 provision ws-c3850-12s
!
!
!
!
ip routing
!
!
!
ip dhcp excluded-address 172.16.10.1 172.16.10.128
ip dhcp excluded-address 172.16.10.250 172.16.10.254
ip dhcp excluded-address 172.16.11.1 172.16.11.128
ip dhcp excluded-address 172.16.11.250 172.16.11.254
ip dhcp excluded-address 172.16.12.1 172.16.12.128
ip dhcp excluded-address 172.16.12.250 172.16.12.254

```

```
ip dhcp excluded-address 172.16.33.201 172.16.33.254
ip dhcp excluded-address 172.16.34.201 172.16.34.254
ip dhcp excluded-address 172.16.35.201 172.16.35.254
ip dhcp excluded-address 172.16.33.1 172.16.33.100
ip dhcp excluded-address 172.16.34.1 172.16.34.100
ip dhcp excluded-address 172.16.35.1 172.16.35.100
!
ip dhcp pool 3rdParty-Phone
  network 172.16.10.0 255.255.255.0
  default-router 172.16.10.254
  option 150 ip 172.16.9.213 172.16.9.223
!
ip dhcp pool Cisco-Phone-1
  network 172.16.11.0 255.255.255.0
  default-router 172.16.11.254
  option 150 ip 172.16.9.213 172.16.9.223
!
ip dhcp pool Cisco-Phone-2
  network 172.16.12.0 255.255.255.0
  default-router 172.16.12.254
  option 150 ip 172.16.9.213 172.16.9.223
!
ip dhcp pool AV
  network 172.16.33.0 255.255.255.0
  default-router 172.16.33.254
  dns-server 8.8.8.8
!
ip dhcp pool Client
  network 172.16.34.0 255.255.255.0
  default-router 172.16.34.254
  dns-server 8.8.8.8
!
ip dhcp pool IPTV
  network 172.16.35.0 255.255.255.0
  default-router 172.16.35.254
  dns-server 8.8.8.8
!
!
!
!
!
!
!
!
!
!
!
crypto pki trustpoint TP-self-signed-1125952749
  enrollment selfsigned
  subject-name cn=IOS-Self-Signed-Certificate-1125952749
  revocation-check none
  rsakeypair TP-self-signed-1125952749
!
!
crypto pki certificate chain TP-self-signed-1125952749
  certificate self-signed 01
```


30820330 30820218 A0030201 02020101 300D0609 2A864886 F70D0101
05050030
31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D
43657274
69666963 6174652D 31313235 39353237 3439301E 170D3138 31323137
31303330
30375A17 0D323030 31303130 30303030 305A3031 312F302D 06035504
03132649
4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D31
31323539
35323734 39308201 22300D06 092A8648 86F70D01 01010500 0382010F
00308201
0A028201 0100DC2A 7CB02FF1 8D4EAF47 9820A17B 4B1E02ED 2F1DC585
E59D093F
04911B1F 7533E809 898183A9 857BB245 E052F223 507DE4BB 4A69A5CE
56B95EEC
8B02115E BEB21D27 1F0DC9AC AB854C21 8253DB92 FBCF44FA 43605097
699E0148
5EB5E9EB 4E2C33D1 455C08FC 0A1D49F7 D6B73926 96105129 60D3443E
EE7D7566
77764E56 82E6E8E9 E7276210 E69924D0 0F0E356C 207DB589 9BB052E3
6182272C
5DF31919 CB39734C 3E42B2B7 21DC7F44 D156DA07 416E1DAC E542A16E
6534D05B
2B108E3F 64F1EE09 5A435A57 4160761F 33580D6D F7123F12 45FD7213
5028C43D
3E93BAA6 FBE386E2 08F9F7A2 C9118263 CCC5949B 70B85C72 2861260D
C693CA48
D915E1EC 52610203 010001A3 53305130 0F060355 1D130101 FF040530
030101FF
301F0603 551D2304 18301680 14C18A09 5676BA4F 28BB2475 42D35D06
D4BEDBBE
91301D06 03551D0E 04160414 C18A0956 76BA4F28 BB247542 D35D06D4
BEDBBE91
300D0609 2A864886 F70D0101 05050003 82010100 75AC0315 F437FA7A
35414DAE
E563DB80 815895C6 8CC15F88 3E1E9C13 A9B86C24 49C64338 34B4F2DB
01FB3C37
FC490D98 60B19CBC ED6C7E5E 4B16F85C 5BD8B27E BEE34EA4 3AC70FE2
9E150091
D2232E5B B4AEC7CB 5C102AA5 44C63ED2 DA41BDF2 BE48989F 5249D97E
EEFE38ED
96419619 472352D0 FDC95EAA FCA05B61 FA5C6A3E 535253DE 85BF72C0
CD666A32
8A4BC1A3 4CA0089A 74EB45D4 CF5F9634 F998AFAA DE789227 0BEC018
832A8F8F
7D09B0AD 75596A5F 0658B029 859A9D88 4693594B D2DBEC62 B65F528E
C4129433
E6289AFF F9ED30F8 07DB8144 A7AAF99F EB36CE98 C23FB6B6 26245EF9
441D1F96
9EF88BA8 40CC1FE3 7328E49A 842BFC11 531E2ACE
quit
!
system mtu 9198

```
license boot level ipbasek9
diagnostic bootup level minimal
spanning-tree mode rapid-pvst
spanning-tree extend system-id
!
!
username admin privilege 15 password 0 Password01!
!
redundancy
  mode sso
!
!
!
class-map match-any system-cpp-police-topology-control
  description Topology control
class-map match-any system-cpp-police-sw-forward
  description Sw forwarding, SGT Cache Full, LOGGING
class-map match-any system-cpp-default
  description DHCP snooping, show forward and rest of traffic
class-map match-any system-cpp-police-sys-data
  description Learning cache ovfl, Crypto Control, Exception, EGR
Exception, NFL SAMPLED DATA, Gold Pkt, RPF Failed
class-map match-any system-cpp-police-punt-webauth
  description Punt Webauth
class-map match-any system-cpp-police-forus
  description Forus Address resolution and Forus traffic
class-map match-any system-cpp-police-multicast-end-station
  description MCAST END STATION
class-map match-any system-cpp-police-multicast
  description Transit Traffic and MCAST Data
class-map match-any system-cpp-police-l2-control
  description L2 control
class-map match-any system-cpp-police-dot1x-auth
  description DOT1X Auth
class-map match-any system-cpp-police-data
  description ICMP_GEN and BROADCAST
class-map match-any system-cpp-police-control-low-priority
  description ICMP redirect and general punt
class-map match-any system-cpp-police-wireless-priority1
  description Wireless priority 1
class-map match-any system-cpp-police-wireless-priority2
  description Wireless priority 2
class-map match-any system-cpp-police-wireless-priority3-4-5
  description Wireless priority 3,4 and 5
class-map match-any non-client-nrt-class
class-map match-any system-cpp-police-routing-control
  description Routing control
class-map match-any system-cpp-police-protocol-snooping
  description Protocol snooping
!
policy-map port_child_policy
  class non-client-nrt-class
    bandwidth remaining ratio 10
policy-map system-cpp-policy
```



```
interface GigabitEthernet1/0/4
  switchport trunk allowed vlan 1,9-12,34,35
  switchport mode trunk
!
interface GigabitEthernet1/0/5
  switchport trunk allowed vlan 1,9-12
  switchport mode trunk
!
interface GigabitEthernet1/0/6
  switchport trunk allowed vlan 1,9-12,33-35
  switchport mode trunk
!
interface GigabitEthernet1/0/7
  switchport trunk allowed vlan 1,9,33-35
  switchport mode trunk
!
interface GigabitEthernet1/0/8
  switchport trunk allowed vlan 1,9-12,33-35
  switchport mode trunk
!
interface GigabitEthernet1/0/9
  switchport trunk allowed vlan 1,9-12,33-35
  switchport mode trunk
!
interface GigabitEthernet1/0/10
  switchport trunk allowed vlan 1,9-12,33-35
  switchport mode trunk
!
interface GigabitEthernet1/0/11
  description ****Connect To ASA02****
  switchport access vlan 8
  switchport mode access
  spanning-tree portfast
!
interface GigabitEthernet1/0/12
  description ****Connect to CUBE02-G0/0/0****
  switchport access vlan 9
  switchport mode access
!
interface GigabitEthernet1/1/1
!
interface GigabitEthernet1/1/2
  description ****Connect To BE6M02 Eth0****
  switchport access vlan 9
  switchport mode access
!
interface GigabitEthernet1/1/3
  description ****Connect To CoreSW01 G1/1/3-4****
  switchport mode trunk
!
interface GigabitEthernet1/1/4
  description ****Connect To CoreSW01 G1/1/3-4****
  switchport mode trunk
!
```

```
interface TenGigabitEthernet1/1/1
!
interface TenGigabitEthernet1/1/2
!
interface TenGigabitEthernet1/1/3
!
interface TenGigabitEthernet1/1/4
!
interface Vlan1
  no ip address
  shutdown
!
interface Vlan8
  ip address 172.16.8.29 255.255.255.224
  standby 8 ip 172.16.8.30
  standby 8 preempt
!
interface Vlan9
  ip address 172.16.9.253 255.255.255.0
  standby 9 ip 172.16.9.254
  standby 9 preempt
!
interface Vlan10
  ip address 172.16.10.253 255.255.255.0
  standby 10 ip 172.16.10.254
  standby 10 preempt
!
interface Vlan11
  ip address 172.16.11.253 255.255.255.0
  standby 11 ip 172.16.11.254
  standby 11 preempt
!
interface Vlan12
  ip address 172.16.12.253 255.255.255.0
  standby 12 ip 172.16.12.254
  standby 12 preempt
!
interface Vlan33
  ip address 172.16.33.253 255.255.255.0
  standby 33 ip 172.16.33.254
  standby 33 preempt
!
interface Vlan34
  ip address 172.16.34.253 255.255.255.0
  standby 34 ip 172.16.34.254
  standby 34 preempt
!
interface Vlan35
  ip address 172.16.35.253 255.255.255.0
  standby 35 ip 172.16.35.254
  standby 35 preempt
!
ip forward-protocol nd
ip pim bsr-candidate Vlan35 0
```

```
ip pim rp-candidate Vlan35
ip http server
ip http authentication local
ip http secure-server
ip route 0.0.0.0 0.0.0.0 172.16.8.2
ip route 10.10.10.0 255.255.255.252 172.16.9.252
ip route 172.16.1.0 255.255.255.0 172.16.8.1
ip route 172.16.2.0 255.255.255.0 172.16.8.2
ip route 192.168.10.0 255.255.255.0 10.10.10.1
!
ip access-list extended AutoQos-4.0-wlan-Acl-Bulk-Data
 permit tcp any any eq 22
 permit tcp any any eq 465
 permit tcp any any eq 143
 permit tcp any any eq 993
 permit tcp any any eq 995
 permit tcp any any eq 1914
 permit tcp any any eq ftp
 permit tcp any any eq ftp-data
 permit tcp any any eq smtp
 permit tcp any any eq pop3
ip access-list extended AutoQos-4.0-wlan-Acl-MultiEnhanced-Conf
 permit udp any any range 16384 32767
 permit tcp any any range 50000 59999
ip access-list extended AutoQos-4.0-wlan-Acl-Scavanger
 permit tcp any any range 2300 2400
 permit udp any any range 2300 2400
 permit tcp any any range 6881 6999
 permit tcp any any range 28800 29100
 permit tcp any any eq 1214
 permit udp any any eq 1214
 permit tcp any any eq 3689
 permit udp any any eq 3689
 permit tcp any any eq 11999
ip access-list extended AutoQos-4.0-wlan-Acl-Signaling
 permit tcp any any range 2000 2002
 permit tcp any any range 5060 5061
 permit udp any any range 5060 5061
ip access-list extended AutoQos-4.0-wlan-Acl-Transactional-Data
 permit tcp any any eq 443
 permit tcp any any eq 1521
 permit udp any any eq 1521
 permit tcp any any eq 1526
 permit udp any any eq 1526
 permit tcp any any eq 1575
 permit udp any any eq 1575
 permit tcp any any eq 1630
 permit udp any any eq 1630
 permit tcp any any eq 1527
 permit tcp any any eq 6200
 permit tcp any any eq 3389
 permit tcp any any eq 5985
 permit tcp any any eq 8080
!
```

```
!  
!  
control-plane  
  service-policy input system-cpp-policy  
!  
!  
line con 0  
  stopbits 1  
line aux 0  
  stopbits 1  
line vty 0 4  
  login local  
line vty 5 15  
  login local  
!  
!  
wsma agent exec  
!  
wsma agent config  
!  
wsma agent filesys  
!  
wsma agent notify  
!  
!  
ap dot11 airtime-fairness policy-name Default 0  
ap group default-group  
ap hyperlocation ble-beacon 0  
ap hyperlocation ble-beacon 1  
ap hyperlocation ble-beacon 2  
ap hyperlocation ble-beacon 3  
ap hyperlocation ble-beacon 4  
end
```

XXXX-IPT-CoreSW02#