

02. IGMP Snooping

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2.1. IGMP Snooping

IGMP (Internet Group Management Protocol) - (multicast) IP-. IGMP (multicast). multicast- 224.0.0.1 IGMP- . , IGMP- .

IGMP Snooping IGMP- multicast / IGMP- multicast, , .

2.2. IGMP Snooping

1. IGMP Snooping
2. IGMP Snooping

1. IGMP Snooping

ip igmp snooping	IGMP Snooping
no ip igmp snooping	IGMP Snooping
!	

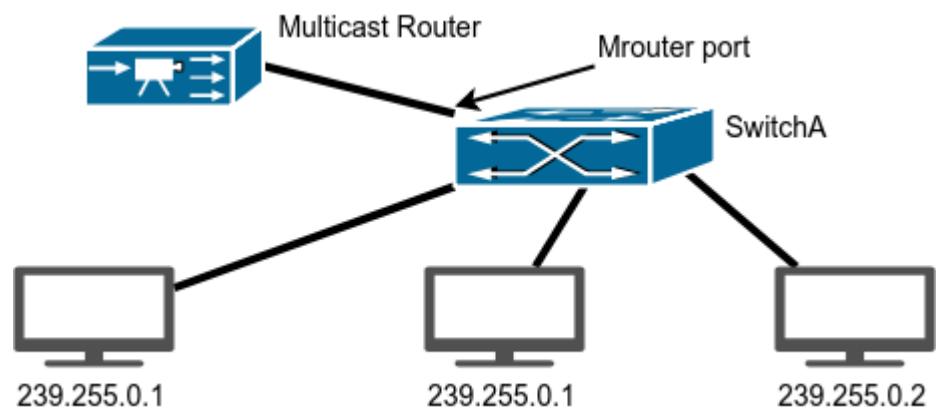
2. IGMP Snooping

ip igmp snooping vlan <vlan-id> no ip igmp snooping vlan <vlan-id> !	IGMP Snooping VLAN <vlan-id>, no .
ip igmp snooping proxy no ip igmp snooping proxy !	IGMP Snooping proxy, no .
ip igmp snooping vlan <vlan-id> limit {group <1-65535> source <1-65535>} no ip igmp snooping vlan < vlan-id > limit !	group <1-65535> source <1-65535> VLAN <vlan-id> -: group <1-65535> - 50, source <1-65535> - 40
ip igmp snooping vlan<vlan-id> interface (ethernet port-channel) IFNAME limit {group <1-65535> source <1-65535>} strategy (replace drop) no ip igmp snooping vlan <1-4094> interface (ethernet port-channel) IFNAME limit group source strategy !	group <1-65535> source <1-65535> VLAN <vlan-id> IFNAME, (replace drop) . -: .
ip igmp snooping vlan <vlan-id> l2-general-querier no ip igmp snooping vlan <vlan-id> l2-general-querier !	L2 General-Querier VLAN <vlan-id> L2 General-Querier VLAN <vlan-id>

ip igmp snooping vlan <vlan-id> l2-general-querier-version <version> !	IGMP L2 General-Querier
ip igmp snooping vlan <vlan-id> l2-general-querier-source <source> !	IP- IGMP L2 General-Querier
ip igmp snooping vlan <vlan-id> mrouter-port interface <interface -name> no ip igmp snooping vlan <vlan-id> mrouter-port interface <interface -name> !	Mrouter <interface -name> <vlan-id> Mrouter <interface -name> <vlan-id>
ip igmp snooping vlan <vlan-id> mrouter-port learnpim no ip igmp snooping vlan <vlan-id> mrouter-port learnpim !	Mrouter VLAN <vlan-id>, PIM-. no .
ip igmp snooping vlan <vlan-id> mrpt <value> no ip igmp snooping vlan <vlan-id> mrpt !	<value> Mrouter-, <vlan-id>. <value> - - 255 .
ip igmp snooping vlan <vlan-id> query-interval <value> no ip igmp snooping vlan <vlan-id> query-interval !	<value> IGMP query general <vlan-id>. <value> - - 125 .
ip igmp snooping vlan <vlan-id> immediately-leave no ip igmp snooping vlan <vlan-id> immediately-leave !	<vlan-id> VLAN <vlan-id>
ip igmp snooping vlan <vlan-id> query-mrsp <value> no ip igmp snooping vlan <vlan-id> query-mrsp !	General Query <value> VLAN <vlan-id> - - 10
ip igmp snooping vlan <vlan-id> query-robustness <value> no ip igmp snooping vlan <vlan-id> query-robustness !	<value> IGMP Query , IGMP snooping VLAN <vlan-id>. - - 2.
ip igmp snooping vlan <vlan-id> suppression-query-time <value> no ip igmp snooping vlan <vlan-id> suppression-query-time !	a Querier <value> query VLAN <vlan-id>. - - 255 .
ip igmp snooping vlan <vlan-id> static-group <A.B.C.D> [source <A.B.C.D>] interface [ethernet port-channel] <IFNAME> no ip igmp snooping vlan <vlan-id> static-group <A.B.C.D> [source <A.B.C.D>] interface [ethernet port-channel] <IFNAME> !	<A.B.C.D> [source <A.B.C.D>] <IFNAME> VLAN <vlan-id>. .
ip igmp snooping vlan <vlan-id> report source-address <A.B.C.D> no ip igmp snooping vlan <vlan-id> report source-address !	IP- <A.B.C.D> IGMP-join VLAN <vlan-id> IP- IGMP-join
ip igmp snooping vlan <vlan-id> specific-query-mrsp <value> no ip igmp snooping vlan <vlan-id> specific-query-mrsp !	Membership Query <value> VLAN <vlan-id> - - 1 a

2.3. IGMP Snooping

1: IGMP Snooping



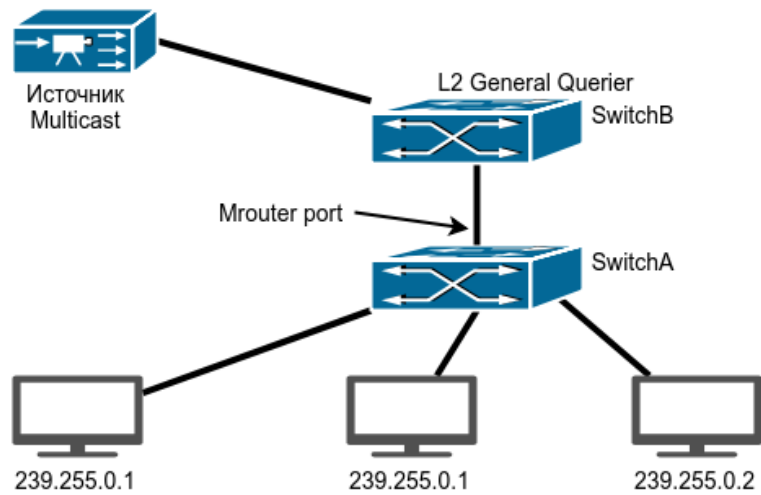
46.1 - IGMP Snooping

46.1, 1, 2, 6, 10 12 VLAN 100 . Multicast 1, 4 2, 6, 10 12 . IGMP Snooping - , , VLAN 100. , 1 Mrouter VLAN 100. :

```
SwitchA(config)#ip igmp snooping
SwitchA(config)#ip igmp snooping vlan 100
SwitchA(config)#ip igmp snooping vlan 100 mrouter interface ethernet 1/0/1
```

, 2 239.255.0.1 239.255.0.2. 2 3 239.255.0.1, 6 - 239.255.0.2.
IGMP Snooping , 2 3 239.255.0.1, 6 - 239.255.0.2, , , , .

2: IGMP Querier



46.2 - IGMP Querier

, 46.2, : Multicast , Switch A Switch B, IGMP Querier. , VLAN 100.

Switch A , . Switch B :

```
SwitchA#config
SwitchA(config)#ip igmp snooping
SwitchA(config)#ip igmp snooping vlan 100
SwitchA(config)#ip igmp snooping vlan 100 L2-general-querier
```

2.4. IGMP Snooping

IGMP Snooping - , . :

- , ;
- , **IGMP Snooping** , VLAN;
- , **mrouter** ;
- **show ip igmp snooping vlan <vlan_id>** , **IGMP Snooping**.