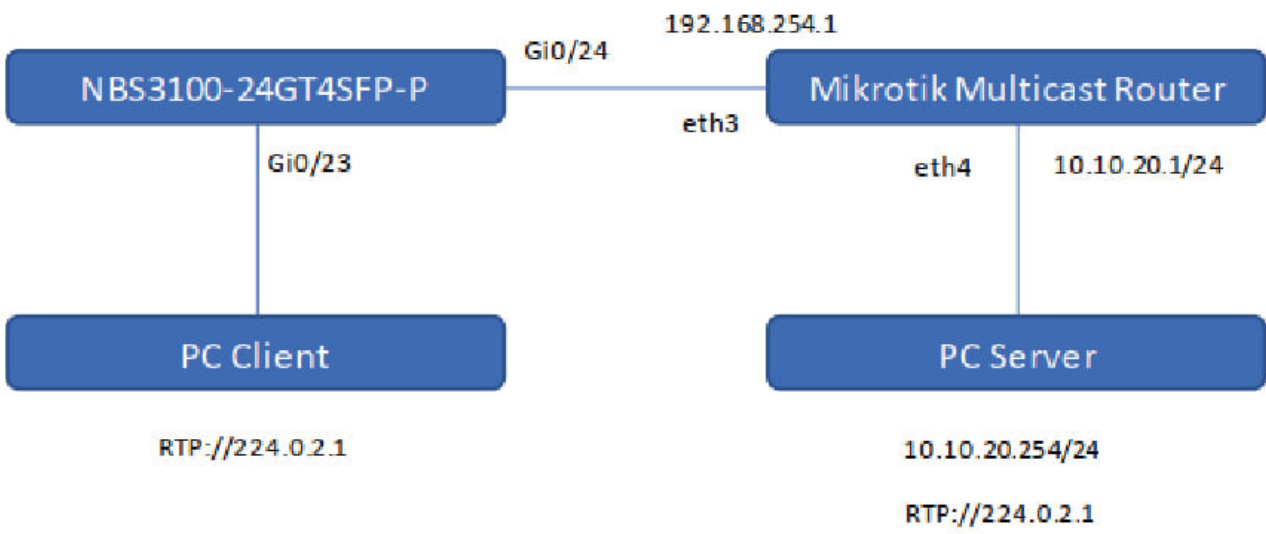


How to configure IGMP for L2 Multicast in Reye Switch ?

1. Topology Example



2. Enable IGMP in L2 Multicast > Global Setting

Switch

NBS3100-24GT4SFP-P

Hostname: igmp_test

SN: G1PD495004110

IP Address: 192.168.254.253

MAC: 30:0D:9E:4D:4E:EC

HomeVLANMonitorPortsL2 MulticastSecurityAdvancedDiagnosticsSystem

Global SettingsIGMP SnoopingMVRMulticast GroupIGMP FilterQuerier

Global Settings

VersionIGMPv2

IGMP Report Suppression

Unknown Multicast PktDiscard

Save

Enable IGMP Report Surpression
Unknown Multicast pkt : Discard (recommended)

3. Enable IGMP Snooping

Switch

NBS3100-24GT4SFP-P

Hostname: igmp_test

SN: G1PD495004110

IP Address: 192.168.254.253

MAC: 30:0D:9E:4D:4E:EC

HomeVLANMonitorPortsL2 MulticastSecurityAdvancedDiagnosticsSystem

Global SettingsIGMP SnoopingMVRMulticast GroupIGMP FilterQuerier

IGMP Snooping

IGMP Snooping

Save

When no any port is selected, multicast will be stopped

Add VLAN for multicast traffic
Multicast status : on (mandatory)
Dynamic Learning : off
Select port members (mandatory)

Switch

NBS3100-24GT4SFP-P

Hostname: igmp_test

SN: G1PD495004110

IP Address: 192.168.254.253

MAC: 30:0D:9E:4D:4EEC

Reboot

Home

VLAN

Monitor

Ports

L2 Multicast

Security

Advanced

Diagnostics

System

Global Settings

IGMP Snooping

MVR

Multicast Group

IGMP Filter

Querier

i

Multicast Group
 The static group will not learn other dynamic ports.

Multicast List

VLAN ID

+

 Add

🗑

 Delete Selected

Up to 256 entries can be added.

VLAN ID	Multicast IP Address	Protocol	Type	Forwarding Port	Action
2	224.0.0.1	IGMP Snooping	Static	Gi23-24	<a>Edit <a>Delete

Total 1

10/page

1

Go to page 1

5. L2 Multicast > IGMP Filter

Define Profile ID, multicast IP range that will be allowed and choose behaviour permit to allow it.
apply filter on switch port that connected to end user devices.

Search

Hostname: igmp_test SN: G1PD495004110 IP Address: 192.168.254.253 MAC: 3D:0C:9E:4D:4E:EC

Reboot

Home VLAN Monitor Ports L2 Multicast Security Advanced Diagnostics System

Global Settings IGMP Snooping MVR Multicast Group IGMP Filter Querier

IGMP Filter

Profile List

+ Add Delete Selected

☐

Profile ID

Behavior

Start IP Address

End IP Address

Action

1

PERMIT

224.0.2.1

224.0.2.1

Edit Delete

Total 1 10/page 1 Go to page 1

Filter List

Batch Edit

Port

Profile ID

Max Multicast Groups

Action

G121

--

256

Edit

G122

--

256

Edit

G123

1

256

Edit

G124

--

256

Edit

6. Server Side testing result

Converting file:///C:/Users/Imam/videos/layand211%20Aven...
Media Playback Audio Video Subtitle Tools View Help

Capturing from Ethernet 2

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter: <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
10187	37.462264	10.10.20.254	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
10188	37.469237	10.10.20.254	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
10189	37.476233	10.10.20.254	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
10190	37.483246	10.10.20.254	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
10191	37.490220	10.10.20.254	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
10192	37.498241	10.10.20.254	224.0.2.1	UDP	1370	63223 → 5004 Len=1328

> Frame 1: 1370 bytes on wire (10960 bits), 1370 bytes captured (10960 bits) on interface \Device\NPF_{B3...} Ethernet II, Src: Realtek5_68:01:3d (00:e0:4c:68:01:3d), Dst: Routerbo_45:31:5b (e4:8d:8c:45:31:5b) Internet Protocol Version 4, Src: 10.10.20.254, Dst: 224.0.2.1 User Datagram Protocol, Src Port: 63223, Dst Port: 5004 Data (1328 bytes)

0000 e4 8d 8c 45 31 5b 00 e0 4c 68 01 3d 08 00 45 00 E1[...Lh...E...
0010 05 4c 64 f6 00 00 80 11 00 00 0a 0a 14 fe e0 00 Ld...
0020 02 01 f6 f7 13 8c 05 38 06 53 80 21 87 2b 24 2c ...8 S-I-i\$
0030 46 1c 9d a9 51 10 47 00 e4 18 7a 5e a0 29 1d 2c F...Q-G d...-
0040 1f 80 50 1c 55 b4 d0 c0 27 3f c7 b3 55 6f 8c 24 -i U- ?-Uo \$
0050 53 40 0b 6f e7 7e 50 10 h6 40 e5 a9 9c 18 f4 6c S(ko wP- @-...
0060 ba ab 05 be 31 cd af e9 b4 5e 76 19 7b 57 d6 0d ...1...y {W...
0070 82 20 95 a6 7b 36 0e d0 5b 3e 89 d2 ea 37 d6 91 ...{6...-7...
0080 d3 b6 ac 96 8a 34 36 80 e4 f3 63 be c9 c9 d2 17 ...4B...-...
Ethernet 2: Live capture in progress Packets: 10192 · Displayed: 10192 (100.0%) Profile: Default

7. Client Side testing result

Capturing from Ethernet 2

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter: <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
8126	2647.589930	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.593749	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.597005	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.599963	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.603021	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.606080	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.609140	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.612200	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.615260	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.618320	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.621380	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.624440	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.627500	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.630560	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.633620	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.636680	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.639740	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.642800	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.645860	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.648920	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.651980	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.655040	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.658100	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.661160	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.664220	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.667280	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.670340	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.673400	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328
8126	2647.676460	192.168.254.1	224.0.2.1	UDP	1370	63223 → 5004 Len=1328

> Frame 1: 1364 bytes on wire (10912 bits), 1364 bytes captured (10912 bits) on interface 0 Ethernet II, Src: Routerbo_45:31:5b (e4:8d:8c:45:31:5b), Dst: Aukelin_af.0b:c4 (00:0c:29:a7:09:c4) Internet Protocol Version 4, Src: 158.150.91.30, Dst: 192.168.254.254 Transport Layer Security

0000 00 0c 29 a7 09 c4 e4 8c 45 31 5a 00 00 45 00 ...L...E...
0010 05 4c 64 f6 00 00 80 11 00 00 0a 0a 14 fe e0 00 Ld...
0020 02 01 f6 f7 13 8c 05 38 06 53 80 21 87 2b 24 2c ...8 S-I-i\$
0030 46 1c 9d a9 51 10 47 00 e4 18 7a 5e a0 29 1d 2c F...Q-G d...-
0040 1f 80 50 1c 55 b4 d0 c0 27 3f c7 b3 55 6f 8c 24 -i U- ?-Uo \$
0050 53 40 0b 6f e7 7e 50 10 h6 40 e5 a9 9c 18 f4 6c S(ko wP- @-...
0060 ba ab 05 be 31 cd af e9 b4 5e 76 19 7b 57 d6 0d ...1...y {W...
0070 82 20 95 a6 7b 36 0e d0 5b 3e 89 d2 ea 37 d6 91 ...{6...-7...
0080 d3 b6 ac 96 8a 34 36 80 e4 f3 63 be c9 c9 d2 17 ...4B...-...
Ethernet 2: Live capture in progress Packets: 81265 · Displayed: 81265 (100.0%) Profile: Default

Official Website >>> <https://www.ruijienetworks.com>
Community >>> <https://community.ruijienetworks.com>
Facebook >>> <https://www.facebook.com/ruijietao>

Official Website

Community

Facebook