SNEAK PEEK

Cisco Support Community Expert Series Webcast

Troubleshooting with NX-OS

November 28th, 2017

with Luis Espejel and David Ramirez



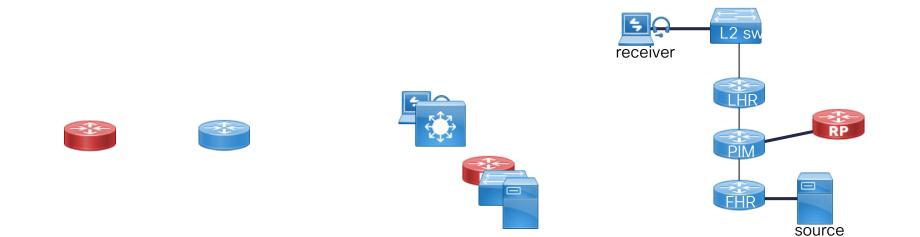


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Agenda

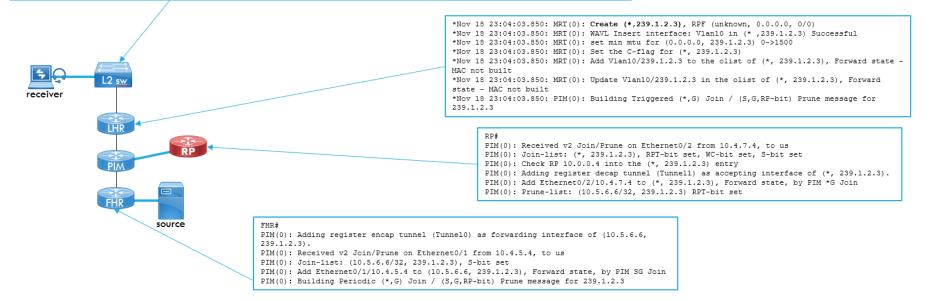
- Introduction
- Multicast basics
- Auto RP, BSR (RP distribution methods)
- Possible threats and security measures
- Demonstration

Multicast – Basic Functioning



Multicast - Basic Functioning

IGMPSN: Received IGMPv2 Report for group 239.1.2.3 received on Vlan 10, port EtO/O IGMPSN: group: Received IGMPv2 report for group 239.1.2.3 from Client 10.2.3.1 received on Vlan 10, port EtO/O IGMPSN: Add v2 group 239.1.2.3 member port EtO/O, on Vlan 10 IGMPSN: group: Added port EtO/O to group 239.1.2.3 IGMPSN: group: Forwarding 239.1.2.3 report to router ports



Multicast – PIM Neighbor Control

```
ip pim multicast-routing
```

```
ip access-list 1 permit 10.0.0.2
ip access-list 1 deny any
```

```
interface ethernet0/0
  ip address 10.0.0.1 255.255.255.0
  ip pim sparse-mode
  in min spirlen filter 1
```

```
ip pim neighbor-filter 1
```

```
ip pim multicast-routing
```

```
ip access-list 1 permit 10.0.0.1
```

```
ip access-list 1 deny any
```

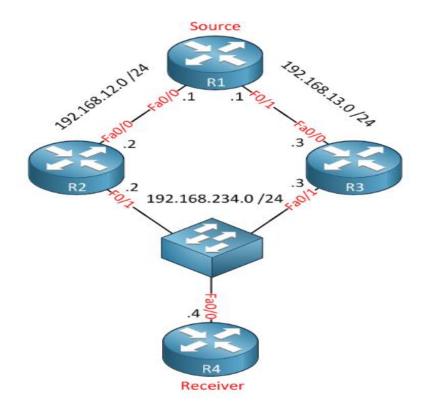
```
interface ethernet0/0
ip address 10.0.0.2 255.255.255.0
ip pim sparse-mode
ip pim neighbor-filter 1
```



MSDP Control:

```
ip msdp peer 10.0.0.1
ip msdp password peer 10.0.0.2 $ecret
```

PIM Assert



IGP Tunning

- The OSPF Link-State Advertisement (LSA) Throttling feature provides a dynamic mechanism to slow down link-state advertisement (LSA) updates in OSPF during times of network instability. It also allows faster Open Shortest Path First (OSPF) convergence by providing LSA rate limiting in milliseconds.
- The SPF and LSA throttle timers should be tuned to these recommended settings.

spf-start	10 ms
msecspf-hold	100 to 500 ms
msecspf-max-wait	5 seconds
lsa-start	10 ms
mseclsa-hold	100 to 500 ms
mseclsa-max-wait	5 seconds
Isa arrival	80 ms (less than Isa-hold of 100 ms)

Check out some additional information on IP Multicast and other Routing Protocols on the Cisco Support Community or Cisco.com

How to configure IP Multicast Routing

https://supportforums.cisco.com/t5/network-infrastructure-documents/how-to-configure-ipmulticast-routing/ta-p/3133143

IP multicast issues

https://supportforums.cisco.com/t5/network-infrastructure-documents/ip-multicast-issues/tap/3114301

If you are not yet a registered user on the community, <u>Click here</u> to register and become an active participant on the community.



Hope you enjoyed this little peek into the webcast. Remember it was just a peek. November 28th, you get a chance to see the whole thing.



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At the webcast you will be able to learn so much more and get a chance to submit questions for the expert to answer during the broadcast. We'll see you there!