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Systems, Inc.

N7K-1 N7K-1# show run !Command: show running-config !Running configuration last done at: Thu Apr 13 04:59:43 2023 !Time: Fri Apr 14 08:08:29 2023 version 8.2(3) nv overlay evpn feature ospf feature bgp feature pim feature nv overlay ip pim rp-address 111.1.1.1 group-list 224.0.0.0/4 ip pim ssm range 232.0.0.0/8 vlan 1 vlan 1 interface Ethernet3/1 mtu 9216 medium p2p ip unnumbered loopback0
ip router ospf 1 area 0.0.0.0
ip pim sparse-mode
no shutdown interface Ethernet3/2 mtu 9216 medium p2p ip unnumbered loopback0
ip router ospf 1 area 0.0.0.0
ip pim sparse-mode
no shutdown interface loopback0 ip address 1.1.1.71/32 router ospf 1 area 0.0.0.0 ip pim sparse-mode interface loopback1 ip address 111.1.1.2/29 ip ospf network point-to-point
ip router ospf 1 area 0.0.0.0 ip pim sparse-mode router ospf 1
router bgp 65000
address-family ipv4 unicast address-family l2vpn evpn neighbor 1.1.1.51 remote-as 65000 update-source loopback0 address-family l2vpn evpn send-community both route-reflector-client neighbor 1.1.1.52 remote-as 65000 update-source loopback0 address-family l2vpn evpn send-community both route-reflector-client

N7K-2 N7K-2# show run Command: show running-config Running configuration last done at: Wed Apr 12 16:45:54 !Time: Thu Apr 13 19:53:09 2023 version 8.2(3) v overlay evpn feature ospf feature bgp feature pim feature nv overlay ip pim rp-address 111.1.1.1 group-list 224.0.0.0/4 bidir ip pim ssm range 232.0.0.0/8 vlan 1 interface Ethernet3/1 mtu 9216 medium p2p
ip unnumbered loopback0
ip router ospf 1 area 0.0.0.0
ip pim sparse-mode
no shutdown nterface Ethernet3/2 mtu 9216 medium p2p
ip unnumbered loopback0
ip router ospf 1 area 0.0.0.0
ip pim sparse-mode
no shutdown nterface loopback0 ip address 1.1.1.72/32 ip router ospf 1 area 0.0.0.0 ip pim sparse-mode interface loopback1
ip address 111.1.1.3/28 ip ospf network point-to-point
ip router ospf 1 area 0.0.0.0 ip pim sparse-mode router ospf 1 router bgp 65000
address-family ipv4 unicast
address-family 12vpn evpn
neighbor 1.1.1.51 remote-as 65000
update-source loopback0 address-family l2vpn evpn
send-community both
route-reflector-client
neighbor 1.1.1.52 remote-as 65000
update-source loopback0 address-family l2vpn evpn send-community both route-reflector-client

N5K-1 N5K-1# show run !Command: show running-config !Time: Thu Apr 13 19:37:57 2023 version 7.3(5)N1(1) hardware ethernet store-and-fwd-switching install feature-set fabric feature-set fabric feature fabric forwarding nv overlay evpn feature ospf feature bgp feature pim feature interface-vlan feature lacp feature vpc feature nv overlay feature vn-segment-vlan-based fabric forwarding anycast-gateway-mac ip pim rp-address 111.1.1.1 group-list 224.0.0.0/4 ip pim ssm range 232.0.0.0/8 /lan 1 vn-segment 10010 vlan 20 vn-segment 20020 vn-segment 30030 vlan 1234 route-map PERMIT-TAG permit 10 match tag 12345 rf context tn1 rd auto address-family ipv4 unicast route-target both auto route-target both auto evpn pc domain 5 peer-switch peer-keepalive destination 10.201.182.134 peer-gateway ip arp synchronize nterface Vlan1 nterface Vlan10 no shutdown vrf member tn1 no ip redirects ip address 192.168.10.254/24 tag 12345 no ipv6 redirects fabric forwarding mode anycast-gateway nterface Vlan20 no shutdown vrf member tn1 no ip redirects ip address 192.168.20.254/24 tag 12345 no ipv6 redirects fabric forwarding mode anycast-gateway nterface Vlan30 no shutdown vrf member tn1 no ip redirects ip forward no ipv6 redirects nterface Vlan1234 no shutdown mtu 9216 no ip redirects
ip address 10.53.1.1/24
no ipv6 redirects
ip ospf cost 10 ip ospf network point-to-point
ip router ospf 1 area 0.0.0.0
ip pim sparse-mode nterface port-channel51 switchport mode trunk switchport trunk allowed vlan 10,20,30 vpc 53 nterface port-channel54 switchport mode trunk spanning-tree port type network speed 10000 vpc peer-link nterface nve1 source-interface loopback1 host-reachability protocol bgp member vni 10010 mcast-group 225.5.5.5 member vni 20020 mcast-group 227.7.7.7 member vni 30030 associate-vrf nterface Ethernet1/1 description Connected to N7009-1 Eth3/1 mtu 9216 medium p2p ip unnumbered loopback0 ip router ospf 1 area 0.0.0.0

ip pim sparse-mode

nterface Ethernet1/2

ip pim sparse-mode

nterface Ethernet1/5

switchport mode trunk

nterface Ethernet1/48

switchport mode trunk

interface loopback0 ip address 1.1.1.51/32

interface loopback1
ip address 10.1.1.51/32

ip pim sparse-mode

ip pim sparse-mode

router-id 1.1.1.51

router ospf 1

vrf tn1

vni 10010 12

rd auto

rd auto

outer bgp 65000 router-id 1.1.1.51

ip unnumbered loopback0
ip router ospf 1 area 0.0.0.0

channel-group 51 mode active

channel-group 54 mode active

ip router ospf 1 area 0.0.0.0

ip router ospf 1 area 0.0.0.0

ip address 10.1.1.100/32 secondary

neighbor 1.1.1.71 remote-as 65000

send-community both neighbor 1.1.1.72 remote-as 65000

update-source loopback0 address-family l2vpn evpn

update-source loopback0 address-family l2vpn evpn send-community both

address-family ipv4 unicast

route-target import auto route-target export auto vni 20020 12

route-target import auto route-target export auto

pc nve peer-link-vlan 1234

advertise l2vpn evpn
redistribute direct route-map PERMIT-TAG

no switchport mtu 9216

medium p2p

description Connected to N7009-2 Eth3/1

description Connected to N93180YC-1 Eth1/3

description Connected to N5672UP-2 Eth1/48

switchport trunk allowed vlan 10,20,30

Eth3/2 Eth1/2 Eth1/1 Eth1/48 Eth1/48 Eth1/5 Po90 Eth1/4 Eth1/3 Eth1/4 VLAN 10 VLAN 10 19K-2 91.168.10.10/24 191.168.10.11/2 VLAN 20 VLAN 20 1.168.20.21/24 191.168.20.20/24 N9K-2# show run Command: show running-config 20:23:15 2023 !Time: Thu Apr 13 20:23:52 2023 version 9.2(3) Bios:version 07.69 feature interface-vlan p route 0.0.0.0/0 192.168.10.254

N9K-1# show run Command: show running-config !Running configuration last done at: Thu Apr 13 12:50:28 2023 !Time: Thu Apr 13 20:03:32 20<u>2</u>3 version 9.2(3) Bios:version 07.69 feature interface-vlan feature lacp ip route 0.0.0.0/0 192.168.10.254 ip route 0.0.0.0/0 192.168.20.254 vlan 1,10,20 interface Vlan1 interface Vlan10 no shutdown ip address 192.168.10.10/24 interface Vlan20 no shutdown ip address 192.168.20.21/24 interface port-channel90 switchport switchport mode trunk interface Ethernet1/3 description Connected to N5672UP-1 Eth1/5 switchport switchport mode trunk channel-group 90 mode active no shutdown interface Ethernet1/4 description Connected to N5672UP-2 Eth1/5 switchport switchport mode trunk channel-group 90 mode active no shutdown

N9K-2
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N9K-2# show run

!Command: show running-config
!Running configuration last done at: Thu Apr 13
20:23:15 2023
!Time: Thu Apr 13 20:23:52 2023

version 9.2(3) Bios:version 07.69

feature interface-vlan

ip route 0.0.0/0 192.168.10.254

ip route 0.0.0/0 192.168.20.254

vlan 1,10,20

interface Vlan10

no shutdown
 ip address 192.168.10.11/24

interface Vlan20

no shutdown
 ip address 192.168.20.20/24

interface Ethernet1/4
 description Connected to N5672UP-2 Eth1/6
 switchport
 switchport mode trunk

no shutdown

N5K-2 N5K-2# show run !Command: show running-config !Time: Thu Apr 13 19:40:43 2023 version 7.3(5)N1(1) hardware ethernet store-and-fwd-switching install feature-set fabric feature-set fabric feature fabric forwarding nv overlay evpn feature ospf feature bgp feature pim feature interface-vlan feature lacp feature vpc feature nv overlay feature vn-segment-vlan-based fabric forwarding anycast-gateway-mac ip pim rp-address 111.1.1.1 group-list 224.0.0.0/4 ip pim ssm range 232.0.0.0/8 vlan 1 vn-segment 10010 vlan 20 vn-segment 20020 vlan 30 vn-segment 30030 vlan 1234 route-map PERMIT-TAG permit 10 match tag 12345 rf context tn1 vni 30030 rd auto address-family ipv4 unicast route-target both auto route-target both auto evpn peer-switch peer-keepalive destination 10.201.182.133 ip arp synchronize nterface Vlan10 no shutdown vrf member tn1 no ip redirects ip address 192.168.10.254/24 tag 12345 no ipv6 redirects fabric forwarding mode anycast-gateway nterface Vlan20 no shutdown vrf member tn1 no ip redirects ip address 192.168.20.254/24 tag 12345 no ipv6 redirects fabric forwarding mode anycast-gateway nterface Vlan30 no shutdown vrf member tn1 no ip redirects ip forward no ipv6 redirects nterface Vlan1234 no shutdown mtu 9216 no ip redirects ip address 10.53.1.2/24 no ipv6 redirects ip ospf cost 10 ip ospf network point-to-point
ip router ospf 1 area 0.0.0.0 ip pim sparse-mode .nterface port-channel52 switchport trunk allowed vlan 10,20,30 vpc 53 nterface port-channel54 switchport mode trunk spanning-tree port type network speed 10000 vpc peer-link nterface nve1 no shutdown source-interface loopback1 host-reachability protocol bgp member vni 10010 mcast-group 225.5.5.5 member vni 20020 mcast-group 227.7.7.7 member vni 30030 associate-vrf nterface Ethernet1/1 description Connected to N7009-1 Eth3/2 no switchport mtu 9216 medium p2p
ip unnumbered loopback0 ip router ospf 1 area 0.0.0.0 ip pim sparse-mode description Connected to N7009-2 Eth3/2 no switchport mtu 9216 ip unnumbered loopback0 ip router ospf 1 area 0.0.0.0 ip pim sparse-mode nterface Ethernet1/5 description Connected to N93180YC-1 Eth1/4 switchport mode trunk switchport trunk allowed vlan 10,20,30 channel-group 52 mode active nterface Ethernet1/6 description Connected to N93180YC-2 Eth1/4 switchport mode trunk switchport trunk allowed vlan 10,20,30 nterface Ethernet1/48 description Connected to N5672UP-1 Eth1/48 switchport mode trunk channel-group 54 mode active nterface loopback0 ip address 1.1.1.52/32 ip router ospf 1 area 0.0.0.0 ip pim sparse-mode nterface loopback1 ip address 10.1.1.52/32 ip address 10.1.1.100/32 secondary ip router ospf 1 area 0.0.0.0 ip pim sparse-mode outer ospf 1 router-id 1.1.1.52 router bgp 65000 router-id 1.1.1.52 neighbor 1.1.1.71 remote-as 65000 update-source loopback0
address-family l2vpn evpn
send-community both
neighbor 1.1.1.72 remote-as 65000 update-source loopback0 address-family l2vpn evpn send-community both vrf tn1 address-family ipv4 unicast advertise 12vpn evpn redistribute direct route-map PERMIT-TAG vni 10010 l2 route-target import auto route-target export auto vni 20020 12 rd auto route-target import auto route-target export auto oc nve peer-link-vlan 1234