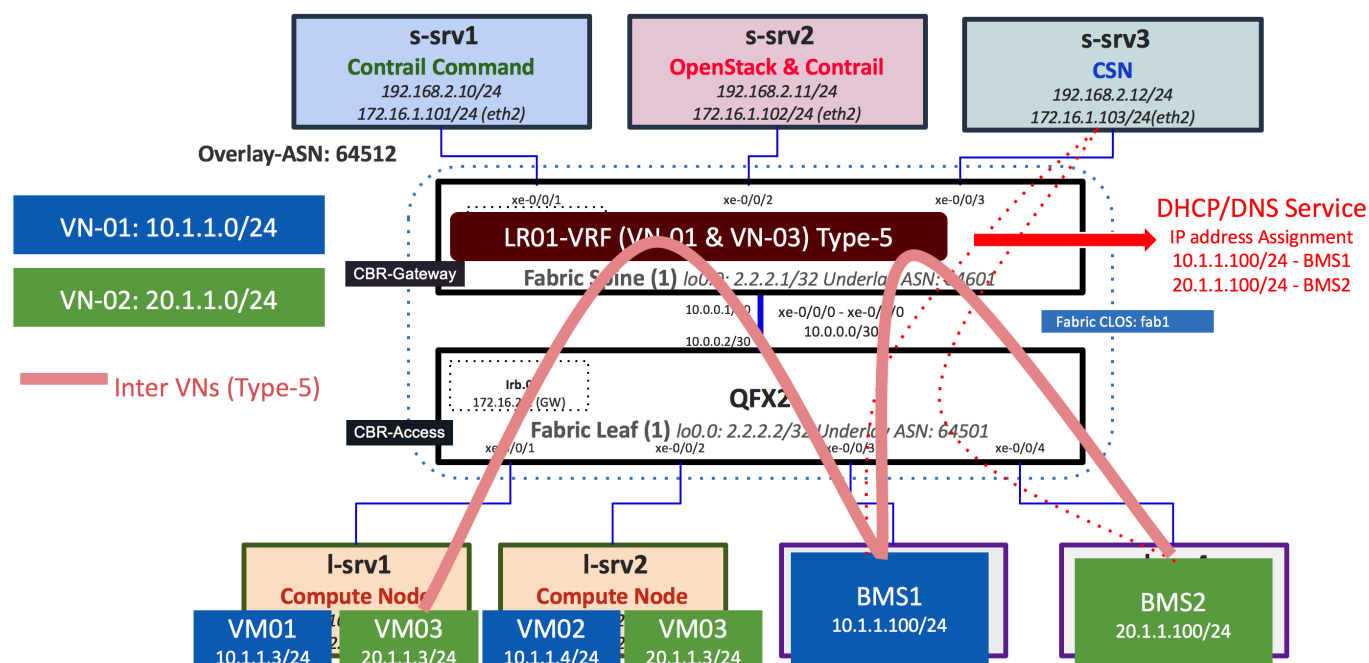


BMS to VM Inter VN

At this point we are going to extend our BMS-VM fabric by creating a non-LCM BMS instance in VN-02 and enabling L3 connectivity between VMs and BMS servers running in VN-01 and VN-02 using EVPN Type-5 VRFs anchored on the Spine QFX (CRB).



1. Add Non-LCM BMS node - l-srv4

Navigate to INFRASTRUCTURE > Servers on the Contrail Command UI and click on Add button on the left top corner to add the second BMS server l-srv4. l-srv4 eth2 interface MAC should be provided under Network Interfaces MAC address and specify "Leaf Device/TOR - Interface" as qfx2-xe-0/0/4.

The screenshot shows the 'Add Server' form in the Contrail Command UI. The form is titled 'Choose Mode' and has three radio buttons: Express, Detailed (selected), and Bulk Import (csv). Below this, there is a section 'Select workload type this server will be used for' with two radio buttons: Physical/Virtual Node and Baremetal (selected). The 'Hostname' field is filled with 'l-srv4'. There are two dropdown menus for 'Deploy Kernel' and 'Deploy Ramdisk', both set to 'Deploy Kernel'. The 'Network Interfaces' section has a table with columns 'Name', 'MAC Address', and 'Leaf Device/TOR - Interface'. The first row has 'eth2' in the Name column, '08:00:27:14:82:ad' in the MAC Address column, and 'vqfx2 - xe-0/0/4' in the Leaf Device/TOR - Interface column. There is an 'Enable PXE' checkbox which is unchecked. Below the table is an '+ Add' button. There is also a 'Port Groups' section with an '+ Add' button. At the bottom, there are sections for 'IPMI Info' and 'Baremetal Properties'. The 'Add' button is highlighted in blue.

To get the MAC address of l-srv4 simply run the command `"vagrant ssh -c 'cat /sys/class/net/eth2/address' l-srv4"` from the vagrant directory.
Other way is to ssh to the l-srv4 VM

2. Create the 2nd BMS instance.

For bms2 we assume that the BMS is a existing BMS migrated from legacy network to VN-02 and has a pre-existing ip address of 20.1.1.20. And we are going to retain that IP address. On l-srv4 flush the 172 ip address on eth2 and statically configure 20.1.1.20 as the IP address.

The screenshot shows the 'Create Existing Baremetal Server' configuration page in the Contrail Command interface. The 'Server Type' is set to 'Existing Baremetal Server'. The 'Instance Name' is 'bms2' and the 'Baremetal Node' is 'l-srv4'. Under 'Associate interfaces', the interface 'eth2-08:00:27:14:82:ad' is associated with IP Address '20.1.1.20', VLAN ID '0', and Virtual Network 'VN-02'. The security group is set to 'default'.

Configs pushed to the leaf qfx.

```
set groups __contrail__ interfaces lo0 unit 0 family inet address 2.2.2.2/32 primary
set groups __contrail__ interfaces lo0 unit 0 family inet address 2.2.2.2/32 preferred
set groups __contrail__ interfaces xe-0/0/3 flexible-vlan-tagging
set groups __contrail__ interfaces xe-0/0/3 native-vlan-id 4094
set groups __contrail__ interfaces xe-0/0/3 encapsulation extended-vlan-bridge
set groups __contrail__ interfaces xe-0/0/3 unit 0 vlan-id 4094
set groups __contrail__ interfaces xe-0/0/4 flexible-vlan-tagging
set groups __contrail__ interfaces xe-0/0/4 native-vlan-id 4094
set groups __contrail__ interfaces xe-0/0/4 encapsulation extended-vlan-bridge
set groups __contrail__ interfaces xe-0/0/4 unit 0 vlan-id 4094
set groups __contrail__ routing-options router-id 2.2.2.2
set groups __contrail__ routing-options route-distinguisher-id 2.2.2.2
set groups __contrail__ routing-options autonomous-system 64512
set groups __contrail__ routing-options resolution rib bgp.rtarget.0
```

```
resolution-ribs inet.0
set groups __contrail__ protocols bgp group _contrail_asn-64512 type
internal
set groups __contrail__ protocols bgp group _contrail_asn-64512 local-
address 2.2.2.2
set groups __contrail__ protocols bgp group _contrail_asn-64512 hold-time
90
set groups __contrail__ protocols bgp group _contrail_asn-64512 family
evpn signaling
set groups __contrail__ protocols bgp group _contrail_asn-64512 family
route-target
set groups __contrail__ protocols bgp group _contrail_asn-64512 neighbor
172.16.1.102 peer-as 64512
set groups __contrail__ protocols bgp group _contrail_asn-64512 neighbor
2.2.2.1 peer-as 64512
set groups __contrail__ protocols evpn vni-options vni 5 vrf-target
target:64512:8000003
set groups __contrail__ protocols evpn vni-options vni 6 vrf-target
target:64512:8000004
set groups __contrail__ protocols evpn encapsulation vxlan
set groups __contrail__ protocols evpn multicast-mode ingress-replication
set groups __contrail__ protocols evpn extended-vni-list all
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-import term _contrail_switch_policy_ from community
_contrail_switch_policy_
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-import term _contrail_switch_policy_ then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-import term t1 from community _contrail_target_64512_8000003
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-import term t1 then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term _contrail_switch_policy_ from community
_contrail_switch_policy_
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term _contrail_switch_policy_ then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term t1 from community _contrail_target_64512_8000004
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term t1 then accept
set groups __contrail__ policy-options policy-statement
_contrail_switch_export_policy_ term t1 then community add
_contrail_switch_export_community_
set groups __contrail__ policy-options community
_contrail_target_64512_8000004 members target:64512:8000004
set groups __contrail__ policy-options community
_contrail_target_64512_8000003 members target:64512:8000003
set groups __contrail__ policy-options community
_contrail_switch_export_community_ members target:64512:8000004
set groups __contrail__ policy-options community
_contrail_switch_export_community_ members target:64512:8000003
set groups __contrail__ policy-options community _contrail_switch_policy_
members target:64512:1
set groups __contrail__ switch-options vtep-source-interface lo0.0
```

```

set groups __contrail__ switch-options route-distinguisher 2.2.2.2:1
set groups __contrail__ switch-options vrf-import _contrail_VN-01-l2-5-
import
set groups __contrail__ switch-options vrf-import _contrail_VN-02-l2-6-
import
set groups __contrail__ switch-options vrf-export
_contrail_switch_export_policy_
set groups __contrail__ switch-options vrf-target target:64512:1
set groups __contrail__ switch-options vrf-target auto
set groups __contrail__ vlans contrail_VN-01-l2-5 interface xe-0/0/3.0
set groups __contrail__ vlans contrail_VN-01-l2-5 vxlan vni 5
set groups __contrail__ vlans contrail_VN-02-l2-6 interface xe-0/0/4.0
set groups __contrail__ vlans contrail_VN-02-l2-6 vxlan vni 6

```

3. BMS2 connectivity to VMs in VN-02.

```

[root@l-srv4 ~]# ip addr flush dev eth2
[root@l-srv4 ~]# ip route delete default
[root@l-srv4 ~]# ip addr add dev eth2 20.1.1.20/24
[root@l-srv4 ~]# ip route add default via 20.1.1.1
[root@l-srv4 ~]# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group
default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 08:00:27:fc:20:25 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global noprefixroute dynamic
eth0
    valid_lft 81561sec preferred_lft 81561sec
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 08:00:27:ff:c9:d0 brd ff:ff:ff:ff:ff:ff
    inet 192.168.2.16/25 brd 192.168.2.127 scope global noprefixroute eth1
    valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:feff:c9d0/64 scope link
    valid_lft forever preferred_lft forever
4: eth2: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 08:00:27:14:82:ad brd ff:ff:ff:ff:ff:ff
    inet 20.1.1.20/24 scope global eth2
    valid_lft forever preferred_lft forever
[root@l-srv4 ~]# ip route
default via 20.1.1.1 dev eth2
10.0.2.0/24 dev eth0 proto kernel scope link src 10.0.2.15 metric 100
20.1.1.0/24 dev eth2 proto kernel scope link src 20.1.1.20
20.1.1.0/24 dev eth2 proto kernel scope link src 20.1.1.20 metric 102

```

```

192.168.2.0/25 dev eth1 proto kernel scope link src 192.168.2.16 metric
101
[root@l-srv4 ~]#
[root@l-srv4 ~]# ping -c 5 20.1.1.3
PING 20.1.1.3 (20.1.1.3) 56(84) bytes of data.
64 bytes from 20.1.1.3: icmp_seq=1 ttl=64 time=340 ms
64 bytes from 20.1.1.3: icmp_seq=2 ttl=64 time=136 ms
64 bytes from 20.1.1.3: icmp_seq=3 ttl=64 time=141 ms
64 bytes from 20.1.1.3: icmp_seq=4 ttl=64 time=35.6 ms
64 bytes from 20.1.1.3: icmp_seq=5 ttl=64 time=141 ms

--- 20.1.1.3 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4013ms
rtt min/avg/max/mdev = 35.664/159.051/340.657/99.346 ms
[root@l-srv4 ~]# ping -c 5 20.1.1.4
PING 20.1.1.4 (20.1.1.4) 56(84) bytes of data.
64 bytes from 20.1.1.4: icmp_seq=1 ttl=64 time=301 ms
64 bytes from 20.1.1.4: icmp_seq=2 ttl=64 time=162 ms
64 bytes from 20.1.1.4: icmp_seq=3 ttl=64 time=100 ms
64 bytes from 20.1.1.4: icmp_seq=4 ttl=64 time=100 ms
64 bytes from 20.1.1.4: icmp_seq=5 ttl=64 time=101 ms

--- 20.1.1.4 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 100.730/153.334/301.693/77.885 ms
[root@l-srv4 ~]#

```

qfx2:

```

show route table default-switch.evpn.0 | no-more
show evpn database | no-more
show ethernet-switching table | no-more

```

4. Connecting VN-01 and VN-02 using EVPN Type-5 logical router.

Create a logical router LR1 and extend it to qfx1 for EVPN Type-5 CRB functionality. Attach VN-01 and VN-02. Assign a L3 VNI of 1024.

The image shows two screenshots of the Contrail Command web interface. The top screenshot displays the 'Instances' menu in the left sidebar, which is highlighted. The main content area shows a grid of navigation options including Monitoring, Infrastructure, Workloads, Services, Security, Overlay, and IAM. The 'Logical Routers' option under the Overlay section is highlighted with a green box. The bottom screenshot shows the 'Create Logical Router' configuration page. The 'Logical Router' tab is selected. The configuration fields are as follows:

- Name:** LRI (highlighted with an orange box)
- Admin State:** Up (selected radio button)
- Extend to Physical Router:** vqfx1 (highlighted with a green box)
- External Gateway:** None
- Connected networks:** VN-01, VN-02 (highlighted with a blue box)
- NAT:** Checked
- VxLAN Network Identifier:** 1024 (highlighted with an orange box)
- Route Target(s):** (empty field)

At the bottom of the configuration page are 'Create' and 'Cancel' buttons.

Note: In order to **enable** EVPN **type-5** feature on Contrail VXLAN routing should be enabled at the project level.

Configuration pushed to QFX spine switch.

```
vagrant@qfx1# show groups __contrail__ | display set | no-more
set groups __contrail__ interfaces lo0 unit 0 family inet address
2.2.2.1/32 primary
set groups __contrail__ interfaces lo0 unit 0 family inet address
2.2.2.1/32 preferred
```

```

set groups __contrail__ interfaces lo0 unit 1007 family inet address
127.0.0.1/32
set groups __contrail__ interfaces irb gratuitous-arp-reply
set groups __contrail__ interfaces irb unit 5 proxy-macip-advertisement
set groups __contrail__ interfaces irb unit 5 family inet address
10.1.1.7/24 virtual-gateway-address 10.1.1.1
set groups __contrail__ interfaces irb unit 6 proxy-macip-advertisement
set groups __contrail__ interfaces irb unit 6 family inet address
20.1.1.6/24 virtual-gateway-address 20.1.1.1
set groups __contrail__ routing-options router-id 2.2.2.1
set groups __contrail__ routing-options route-distinguisher-id 2.2.2.1
set groups __contrail__ routing-options autonomous-system 64512
set groups __contrail__ routing-options resolution rib bgp.rtarget.0
resolution-ribs inet.0
set groups __contrail__ protocols bgp group _contrail_asn-64512 type
internal
set groups __contrail__ protocols bgp group _contrail_asn-64512 local-
address 2.2.2.1
set groups __contrail__ protocols bgp group _contrail_asn-64512 hold-time
90
set groups __contrail__ protocols bgp group _contrail_asn-64512 family
evpn signaling
set groups __contrail__ protocols bgp group _contrail_asn-64512 family
route-target
set groups __contrail__ protocols bgp group _contrail_asn-64512 export
_contrail_ibgp_export_policy
set groups __contrail__ protocols bgp group _contrail_asn-64512 neighbor
172.16.1.102 peer-as 64512
set groups __contrail__ protocols bgp group _contrail_asn-64512 neighbor
2.2.2.2 peer-as 64512
set groups __contrail__ protocols evpn vni-options vni 5 vrf-target
target:64512:8000003
set groups __contrail__ protocols evpn vni-options vni 6 vrf-target
target:64512:8000004
set groups __contrail__ protocols evpn encapsulation vxlan
set groups __contrail__ protocols evpn default-gateway no-gateway-
community
set groups __contrail__ protocols evpn extended-vni-list all
set groups __contrail__ policy-options policy-statement
_contrail_ibgp_export_policy term inet-vpn from family inet-vpn
set groups __contrail__ policy-options policy-statement
_contrail_ibgp_export_policy term inet-vpn then next-hop self
set groups __contrail__ policy-options policy-statement
_contrail_ibgp_export_policy term inet6-vpn from family inet6-vpn
set groups __contrail__ policy-options policy-statement
_contrail_ibgp_export_policy term inet6-vpn then next-hop self
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-export term t1 then community add _contrail_target_64512_8000003
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-export term t1 then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-import term _contrail_switch_policy_ from community
_contrail_switch_policy_
set groups __contrail__ policy-options policy-statement _contrail_VN-01-

```



```

l2-5-import term _contrail_switch_policy_ then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-import term t1 from community _contrail_target_64512_8000003
set groups __contrail__ policy-options policy-statement _contrail_VN-01-
l2-5-import term t1 then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-export term t1 then community add _contrail_target_64512_8000004
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-export term t1 then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term _contrail_switch_policy_ from community
_contrail_switch_policy_
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term _contrail_switch_policy_ then accept
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term t1 from community _contrail_target_64512_8000004
set groups __contrail__ policy-options policy-statement _contrail_VN-02-
l2-6-import term t1 then accept
set groups __contrail__ policy-options policy-statement
_contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__l3-7-export term t1 then community add
_contrail_target_64512_8000006
set groups __contrail__ policy-options policy-statement
_contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__l3-7-export term t1 then accept
set groups __contrail__ policy-options policy-statement
_contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__l3-7-import term _contrail_switch_policy_ from community
_contrail_switch_policy_
set groups __contrail__ policy-options policy-statement
_contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__l3-7-import term _contrail_switch_policy_ then accept
set groups __contrail__ policy-options policy-statement
_contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__l3-7-import term t1 from community
_contrail_target_64512_8000006
set groups __contrail__ policy-options policy-statement
_contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__l3-7-import term t1 then accept
set groups __contrail__ policy-options community
_contrail_target_64512_8000004 members target:64512:8000004
set groups __contrail__ policy-options community
_contrail_target_64512_8000006 members target:64512:8000006
set groups __contrail__ policy-options community
_contrail_target_64512_8000003 members target:64512:8000003
set groups __contrail__ policy-options community
_contrail_switch_export_community_ members target:64512:8000004
set groups __contrail__ policy-options community
_contrail_switch_export_community_ members target:64512:8000006
set groups __contrail__ policy-options community
_contrail_switch_export_community_ members target:64512:8000003
set groups __contrail__ policy-options community _contrail_switch_policy_
members target:64512:1
set groups __contrail__ routing-instances

```



```

__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 instance-type vrf
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 interface lo0.1007
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 interface irb.6
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 interface irb.5
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 vrf-import
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7-import
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 vrf-export
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7-export
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 protocols evpn ip-prefix-routes advertise direct-
nexthop
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 protocols evpn ip-prefix-routes encapsulation vxlan
set groups __contrail__ routing-instances
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7 protocols evpn ip-prefix-routes vni 1024
set groups __contrail__ switch-options mac-ip-table-size 65535
set groups __contrail__ switch-options vtep-source-interface lo0.0
set groups __contrail__ switch-options route-distinguisher 2.2.2.1:1
set groups __contrail__ switch-options vrf-import __contrail_VN-01-l2-5-
import
set groups __contrail__ switch-options vrf-import __contrail_VN-02-l2-6-
import
set groups __contrail__ switch-options vrf-import
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7-import
set groups __contrail__ switch-options vrf-export __contrail_VN-01-l2-5-
export
set groups __contrail__ switch-options vrf-export __contrail_VN-02-l2-6-
export
set groups __contrail__ switch-options vrf-export
__contrail__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-
ede0d4947e8a__-l3-7-export
set groups __contrail__ switch-options vrf-target target:64512:1
set groups __contrail__ switch-options vrf-target auto
set groups __contrail__ vlans contrail_VN-01-l2-5 vlan-id 5
set groups __contrail__ vlans contrail_VN-01-l2-5 l3-interface irb.5
set groups __contrail__ vlans contrail_VN-01-l2-5 vxlan vni 5
set groups __contrail__ vlans contrail_VN-02-l2-6 vlan-id 6

```

```

set groups __contrail__ vlans contrail_VN-02-l2-6 l3-interface irb.6
set groups __contrail__ vlans contrail_VN-02-l2-6 vxlan vni 6

```

5. BMS1 connectivity to VMs and BMS in VN-01 and VN-02.

```

[root@l-srv3 ~]# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group
default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 08:00:27:fc:20:25 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global noprefixroute dynamic
eth0
        valid_lft 83235sec preferred_lft 83235sec
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 08:00:27:4d:4e:7d brd ff:ff:ff:ff:ff:ff
    inet 192.168.2.15/25 brd 192.168.2.127 scope global noprefixroute eth1
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe4d:4e7d/64 scope link
        valid_lft forever preferred_lft forever
4: eth2: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 08:00:27:32:59:0f brd ff:ff:ff:ff:ff:ff
    inet 10.1.1.5/24 brd 10.1.1.255 scope global eth2
        valid_lft forever preferred_lft forever
[root@l-srv3 ~]# ip route
default via 10.1.1.1 dev eth2
default via 10.0.2.2 dev eth0 proto dhcp metric 100
10.0.2.0/24 dev eth0 proto kernel scope link src 10.0.2.15 metric 100
10.1.1.0/24 dev eth2 proto kernel scope link src 10.1.1.5
10.1.1.0/24 dev eth2 proto kernel scope link src 10.1.1.5 metric 102
192.168.2.0/25 dev eth1 proto kernel scope link src 192.168.2.15 metric
101
[root@l-srv3 ~]#
[root@l-srv3 ~]# ping -c 2 10.1.1.3
PING 10.1.1.3 (10.1.1.3) 56(84) bytes of data.
64 bytes from 10.1.1.3: icmp_seq=1 ttl=64 time=117 ms
64 bytes from 10.1.1.3: icmp_seq=2 ttl=64 time=118 ms

--- 10.1.1.3 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 117.415/117.838/118.261/0.423 ms
[root@l-srv3 ~]# ping -c 2 10.1.1.4
PING 10.1.1.4 (10.1.1.4) 56(84) bytes of data.
64 bytes from 10.1.1.4: icmp_seq=1 ttl=64 time=195 ms

```

```
64 bytes from 10.1.1.4: icmp_seq=2 ttl=64 time=103 ms

--- 10.1.1.4 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 103.711/149.365/195.019/45.654 ms
[root@l-srv3 ~]# ping -c 2 20.1.1.3
PING 20.1.1.3 (20.1.1.3) 56(84) bytes of data.
64 bytes from 20.1.1.3: icmp_seq=1 ttl=62 time=394 ms
64 bytes from 20.1.1.3: icmp_seq=2 ttl=62 time=503 ms

--- 20.1.1.3 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 394.232/448.831/503.431/54.603 ms
[root@l-srv3 ~]# ping -c 2 20.1.1.4
PING 20.1.1.4 (20.1.1.4) 56(84) bytes of data.
64 bytes from 20.1.1.4: icmp_seq=1 ttl=62 time=596 ms
64 bytes from 20.1.1.4: icmp_seq=2 ttl=62 time=601 ms

--- 20.1.1.4 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 596.203/599.050/601.897/2.847 ms
[root@l-srv3 ~]# ping -c 2 20.1.1.20
PING 20.1.1.20 (20.1.1.20) 56(84) bytes of data.
64 bytes from 20.1.1.20: icmp_seq=1 ttl=63 time=594 ms
64 bytes from 20.1.1.20: icmp_seq=2 ttl=63 time=499 ms

--- 20.1.1.20 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 499.379/546.901/594.423/47.522 ms
[root@l-srv3 ~]#
```

```
qfx1:
show route table default-switch.evpn.0
show evpn database
show arp no-resolve
```

EVPN Type-5 routing table on the Contrail control-node.

Monitor

Infrastructure

Dashboard

Physical Topology

Control Nodes

Virtual Routers

Analytics Nodes

Config Nodes

Database Nodes

Security

Networking

Debug

Alarms

Monitor > Infrastructure > Control Nodes > s-srv2

Search Sitemap

Search Routes

Routing Instance: default-domain:admin:__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-ed0d4947e8a__...

Prefix: Prefix

Limit: 50 Routes

Search Reset

Routes

Filter Routes

Prefix Protocol Source Next hop Label Security Group Origin VN

Routing Table: default-domain:admin:__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-ed0d4947e8a__:__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-ed0d4947e8a__ermvpn.0 (4 Routes)

0-172.16.2.101:4-0.0.0.0,255.255.255,0.0.... XMPP l-srv1 172.16.2.101 0 - default-domain:admin:__contrail_lr_inter...

0-172.16.2.102:4-0.0.0.0,255.255.255,0.0.... XMPP l-srv2 172.16.2.102 0 - default-domain:admin:__contrail_lr_inter...

1-0-172.16.1.102,255.255.255,0.0.0.0 Local 172.16.1.102 0 - default-domain:admin:__contrail_lr_inter...

2-0-172.16.1.102,255.255.255,0.0.0.0 Local 172.16.1.102 0 - default-domain:admin:__contrail_lr_inter...

Routing Table: default-domain:admin:__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-ed0d4947e8a__:__contrail_lr_internal_vn_c8cf0efa-c03f-408e-bfe3-ed0d4947e8a__evpn.0 (8 Routes)

1-0-0-64512:5-4294967295 BGP 0 2.2.2.1 0 - default-domain:admin:__contrail_lr_inter...

1-0-0-64512:6-4294967295 BGP 0 2.2.2.1 0 - default-domain:admin:__contrail_lr_inter...

5-0-0-10.1.1.0/24 BGP 0 2.2.2.1 1024 - default-domain:admin:__contrail_lr_inter...

5-0-0-20.1.1.0/24 BGP 0 2.2.2.1 1024 - default-domain:admin:__contrail_lr_inter...

5-0-0-1024-10.1.1.3/32 XMPP l-srv1 172.16.2.101 1024 - default-domain:admin:__contrail_lr_inter...

5-0-0-1024-10.1.1.4/32 XMPP l-srv2 172.16.2.102 1024 - default-domain:admin:__contrail_lr_inter...

5-0-0-1024-20.1.1.3/32 XMPP l-srv1 172.16.2.101 1024 - default-domain:admin:__contrail_lr_inter...

5-0-0-1024-20.1.1.4/32 XMPP l-srv2 172.16.2.102 1024 - default-domain:admin:__contrail_lr_inter...

Back to Top

12 / 12