# I am using all static router in everywhere from Router to EDGE to DLR

# Figure 2:

- This is my router.
- Traceroute output to DLR DOWNLINK
- Routing table
- Can ping DLR-UPLINK interface 10.10.10.2

admin@C4:AD:34:6	:62:95:FF (DC Site) - WinBox (64bit) v6.44.5 on hEX (mmips)			– 6 ×
Session Settings Das	shboard			
🔿 😋 Safe Mode	Session: C4/AD:34:62:95:FF			
auick Set	Terminal			
CAPSMAN	[admin@DC Site] > [admin@DC Site] >			
Interfaces	[admin@DC Site] >			
🗐 Wireless	[admin@DC Site] >			
Bridge	<pre>[admin@DC Site] &gt; [admin@DC Site] &gt;</pre>			
et PPP	[adminght Site]			
T Switch	admir Traceroute (Running)			
°18 Mesh	admii Traceroute To: 192.167.1.1	Start	t	
🕸 IP 🗈 🗈	[admin Packet Size: 56	Stop		
MPLS N	admin Timeout: 1000	ns Close		
😹 Routing	admir Protocol: icmp	▼ New Win		
System	[admi: [admi: Port 33434		Routes Nexthops Rules VRF	
Queues	[admin			
Files	[admi: [admi:		Dst. Address / Gateway	Distance Routing Ma
Log	[admir Count:	•	AS 10.10.10.0/24 BRDC reachable	1
A RADIUS	[admi: [admi: Max Hops:	•	DAC   172.16.6.0/24 BRDC reachable  AS   192.167.1.0/24 BRDC reachable	0
💥 Tools	Iadmin		DC > 192.168.1.0/30 E1-DC-WAN unreachable	255
New Terminal	[ dCm1	•		
Partition	admin Interface:	•		
Ante Supout.rif	admii DSCP:	•		
Manual	[admi: [admi: Routing Table:	•		
New WinBox	[admin			
Exit	Image: Instruction of the state of	from 172.16.6.1	1	
	[admi: 2172.16.6.1 53.3% 60 0.0ms 0.0 0.0 0.0 0.0 0.0 [host unreachable			
	[admi:         3 172.16.6.1         10.0%         60 0.0ms         20.2         0.0         986.0         132.7         host unreachable           [admi:         4         100.0%         3 timeout         Image: Contract of the second se	from 172.16.6.1	1	
	[admin			
	[admin [admin			
	admin •			
	[admi: 4 items			
	[adminect site] >		4 items (1 selected)	
	[admin@DC Site] > ping 10.10.10.2			
	SEQ HOST         SIZE TTL TIME STATUS           0 10.10.10.2         56 64 0ms			
	1 10.10.10.2 56 64 0ms			
	2 10.10.10.2 56 64 0ms sent=3 received=3 packet-loss=0% min-rtt=0ms avg-rtt=0ms max-rtt=0ms			
	[admin@DC Site] > ping 192.167.1.1 SEQ HOST SIZE TTL TIME STATUS			
4	0 192.167.1.1 Size TTL TIME STATUS			
6	1 192.167.1.1 timeout			
2	2 192.167.1.1 timeout sent=3 received=0 packet-loss=100%			
2	[admin@DC Site] >			
-	o 💀 🔄 🐣 💿 🥅			12:35 AM
-	🧿 🔯 🥰 🔮 🗖			

Figure 1

### Figure 2:

This is my DB VM on VXLAN.I can do the followings:

- Can ping to EDGE UPLINK Connected to Distributed portgroup
- Can't ping to Router Interface 172.16.6.1
- Tracerout output ok till DLR-UPLINK interface

```
root@lamp "#
root@lamp "#
root@lamp "#
root@lamp "#
proot@lamp "#
p
```

Figure 2

#### Figure 3:

This is my EDGE.

- Showing routing table
- Can ping Mikrotik router interface 172.16.6.1
- Can ping DLR interface 192.167.1.1
- Can't ping the VM

```
esg-1.home.lab-0#
esg-1.home.lab-0#
esg-1.home.lab-0# show ip route
                Total number of routes:
              Codes: O - OSPF derived, i - IS-IS derived, B - BGP derived,
C - connected, S - static, L1 - IS-IS level-1, L2 - IS-IS level-2,
IA - OSPF inter area, E1 - OSPF external type 1, E2 - OSPF external type 2,
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
                                   0.0.0.0/0
10.10.10.0/29
                                                                                        [1/0]
                                                                                                                           via 172.16.6.1
                                                                                                                          via 10.10.10.2
via 172.16.6.41
via 10.10.10.3
                                                                                        [0/0]
                                   172.16.6.0/24
192.167.1.0/24
                                                                                        [0/0]
              S 192.167.1.0/24 [1/0] via 10.10.10.3
esg-1.home.lab-0# ping 172.16.6.1
PING 172.16.6.1 (172.16.6.1) 56(84) bytes of data.
64 bytes from 172.16.6.1: icmp_seq=1 ttl=64 time=0.377 ms
64 bytes from 172.16.6.1: icmp_seq=2 ttl=64 time=0.374 ms
^C
               esg-1.home.lab-0#
                --- 172.16.6.1 ping statistics ---
               2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.374/0.375/0.377/0.019 ms
              esg-1.home.lab-0#
               esg-1.home.lab-0#
              esg-1.home.lab-U#
esg-1.home.lab-U#
esg-1.home.lab-0#
ping 192.167.1.1
PING 192.167.1.1 (192.167.1.1) 56(84) bytes of data.
64 bytes from 192.167.1.1: icmp_seq=1 ttl=64 time=0.198 ms
64 bytes from 192.167.1.1: icmp_seq=2 ttl=64 time=0.221 ms
64 bytes from 192.167.1.1: icmp_seq=3 ttl=64 time=0.377 ms
64 bytes from 192.167.1.1: icmp_seq=4 ttl=64 time=0.163 ms
\gamma_{p}
                °C
               --- 192.167.1.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3006ms
              esg-1.home.lab-0# rtt Min/avg/Max/Mdev = 0.163/0.239/0.377/0.084 Ms
esg-1.home.lab-0# ping 192.167.1.5
PING 192.167.1.5 (192.167.1.5) 56(84) bytes of data.
From 10.10.10.3 icmp_seq=1 Destination Host Unreachable
From 10.10.10.3 icmp_seq=2 Destination Host Unreachable
From 10.10.10.3 icmp_seq=3 Destination Host Unreachable
               From 10.10.10.3 icmp_seq=3 Destination Host Unreachable
^C
               esg-1.home.lab-0#
--- 192.167.1.5 ping statistics ---
6 packets transmitted, 0 received, +4 errors, 100% packet loss, time 5000ms
               pipe 4
esg-1.home.lab-0#
                                                                                                                                                                                                                       へ いい 12:03 AM
🧿 🔹 🍣 🔮 🗉
```



### Figure 4:

This is my DLR VM.

- Routing table is given here
- Can ping only EDGE inernal interface.
- Cant ping EDGE Uplink connected tp distributed port group
- Canlt ping physical router

```
dlr1.hoмe.lab-0#
dlr1.hoмe.lab-0#
               dlr1.home.lab-0#
               dlr1.home.lab-0# show ip route
               Total number of routes: 3
              Codes: O - OSPF derived, i - IS-IS derived, B - BGP derived,
C - connected, S - static, L1 - IS-IS level-1, L2 - IS-IS level-2,
IA - OSPF inter area, E1 - OSPF external type 1, E2 - OSPF external type 2,
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
                                 10.10.10.0/29
172.16.6.0/24
192.167.1.0/24
                                                                                                                  via 10.10.10.3
via 10.10.10.2
via 192.167.1.1
                                                                                  [0/0]
               С
                                                                                  [1/0]
                                                                                  [0/0]
              dlr1.home.lab-0# ping 10.10.10.3
PING 10.10.10.3 (10.10.10.3) 56(84) bytes of data.
64 bytes from 10.10.10.3: icmp_seq=1 ttl=64 time=0.172 ms
64 bytes from 10.10.10.3: icmp_seq=2 ttl=64 time=0.732 ms
               dlr1.home.lab-0#
                --- 10.10.10.3 ping statistics -
               2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.172/0.452/0.732/0.280 ms
              dlr1.home.lab-0#
              dlr1.home.lab-0#
dlr1.home.lab-0#
             dirl.home.lab-0#
dlr1.home.lab-0# ping 172.16.6.41
PING 172.16.6.41 (172.16.6.41) 56(84) bytes of data.
From 10.10.10.3 icmp_seq=1 Destination Host Unreachable
From 10.10.10.3 icmp_seq=2 Destination Host Unreachable
From 10.10.10.3 icmp_seq=3 Destination Host Unreachable
From 10.10.10.3 icmp_seq=4 Destination Host Unreachable
               dlr1.home.lab-0#
               --- 172.16.6.41 ping statistics ---
5 packets transmitted, 0 received, +4 errors, 100% packet loss, time 4000ms
              pipe 4
dlr1.home.lab-0# ping 172.16.6.1
FING 172.16.6.1 (172.16.6.1) 56(84) bytes of data.
From 10.10.10.3 icmp_seq=1 Destination Host Unreachable
From 10.10.10.3 icmp_seq=2 Destination Host Unreachable
From 10.10.10.3 icmp_seq=3 Destination Host Unreachable
From 10.10.10.3 icmp_seq=4 Destination Host Unreachable
                ^C
               dlr1.home.lab-0#
               --- 172.16.6.1 ping statistics --
               5 packets transmitted, 0 received, +4 errors, 100% packet loss, time 4001ms
               pipe 4
dlr1.home.lab-0#
                                                                                                                                                                                                          へ 🌄 12:22 AM
3/28/2020
             🧿 🔹 🌻 🔮 E
    in.
```

