

server1 (root)

Multi-execution mode: commands are typed to all terminals (use Ctrl+Shift+Insert to paste)

Integrated configuration saved to /etc/frr/frr.conf

server1# traceroute 111.111.111.111
traceroute to 111.111.111.111 (111.111.111.111), 30 hops max, 60 byte packets
1 111.111.111.111 (111.111.111.111) 0.853 ms 0.827 ms 0.709 ms
server1# exit
root@server1:~# ipvsadm -A -t 111.111.111.111:80 -s rr
root@server1:~# ipvsadm -l -n
IP Virtual Server version 1.2.1 (size=4096)
Prot LocalAddress:Port Scheduler Flags
-> RemoteAddress:Port Forward Weight ActiveConn InActConn
TCP 111.111.111.111:80 rr
root@server1:~# ipvsadm -a -t 192.168.1.41:80 -r 172.17.0.2 -m
Service not defined
root@server1:~# ipvsadm -a -t 111.111.111.111:80 -r 172.17.0.2 -m
root@server1:~# ipvsadm -a -t 111.111.111.111:80 -r 172.17.0.3 -m
root@server1:~# netstat -tulpan | grep 80
bash: netstat: command not found
root@server1:~# ss -tulpan | grep 80
tcp UNCONN 0 0 0.0.0.0:* users:(("rpcbind",pid=80))
d424,fd=5),("systemd",pid=1,fd=80))
root@server1:~# ipvsadm -l -n -rate
IP Virtual Server version 1.2.1 (size=4096)
Prot LocalAddress:Port CPS InPPS OutPPS InBPS OutBPS
-> RemoteAddress:Port
TCP 111.111.111.111:80
-> 172.17.0.2:80 0 2 3 120 136
-> 172.17.0.3:80 0 2 1 120 136
root@server1:~#

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The following additional packages will be installed:
libcurl4
The following NEW packages will be installed:
curl libcurl4
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 608 kB of archives.
After this operation, 1,188 kB of additional disk space will be used.
Do you want to continue? [Y/n]
Get:1 http://deb.debian.org/debian bullseye/main amd64 libcurl4 amd64 7.74.0-1.3+b1 [341 kB]
Get:2 http://deb.debian.org/debian bullseye/main amd64 curl amd64 7.74.0-1.3+b1 [267 kB]
Fetched 608 kB in 1s (825 kB/s)
Selecting previously unselected package libcurl4:amd64.
(Reading database ... 28036 files and directories currently installed.)
Preparing to unpack .../libcurl4_7.74.0-1.3+b1_amd64.deb ...
Unpacking libcurl4:amd64 (7.74.0-1.3+b1) ...
Selecting previously unselected package curl.
Preparing to unpack .../curl_7.74.0-1.3+b1_amd64.deb ...
Unpacking curl (7.74.0-1.3+b1) ...
Setting up libcurl4:amd64 (7.74.0-1.3+b1) ...
Setting up curl (7.74.0-1.3+b1) ...
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for libc-bin (2.31-13) ...
root@server3:~# for i in seq 1 1000; do curl http://111.111.111.111 -s; done | sort
| uniq -c
500 This is A
500 This is B
root@server3:~#

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server1 (root)

Multi-execution mode: commands are typed to all terminals (use Ctrl+Shift+Insert to paste)

server2# show ip route
Codes: K - kernel route, C - connected, S - static, R - RIP,
O - OSPF, I - IS-IS, B - BGP, E - EIGRP, N - NHRP,
T - Table, v - VNC, V - VNC-Direct, A - Babel, D - SHARP,
F - FRR, f - OpenFabric,
* - selected route, * - FIB route, q - queued, r - rejected, b - backup
K> 0.0.0.0/0 [0/0] via 192.168.1.1, enp0s3, 00:31:04
O 1.1.1.1/32 [110/10] via 0.0.0.0, dummy0 onlink, weight 1, 00:31:04
C 2.2.2.2/32 [110/60] via 192.168.12.1, team0, weight 1, 00:30:14
O 3.3.3.3/32 [110/160] via 192.168.12.2, team0, weight 1, 00:30:14
O 111.111.111.111/32 [110/60] via 192.168.12.3, enp0s10, weight 1, 00:06:14
C 192.168.12.0/24 [110/50] is directly connected, team0, 00:31:04
O 192.168.12.0/24 [110/50] is directly connected, team0, weight 1, 00:30:53
O 192.168.23.0/24 [110/100] is directly connected, enp0s10, weight 1, 00:43:01
O 192.168.23.0/24 [110/150] via 192.168.12.2, team0, weight 1, 00:30:14
server2#

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server2# show ip route
Codes: K - kernel route, C - connected, S - static, R - RIP,
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T - Table, v - VNC, V - VNC-Direct, A - Babel, D - SHARP,
F - FRR, f - OpenFabric,
* - selected route, * - FIB route, q - queued, r - rejected, b - backup
K> 0.0.0.0/0 [0/0] via 192.168.1.1, enp0s3, 00:43:15
O 1.1.1.1/32 [110/60] via 192.168.12.1, team0, weight 1, 00:30:19
O 2.2.2.2/32 [110/10] via 0.0.0.0, dummy0 onlink, weight 1, 00:43:15
C 2.2.2.2/32 [110/10] via 192.168.12.3, enp0s10, weight 1, 00:42:21
O 111.111.111.111/32 [110/60] via 192.168.12.1, team0, weight 1, 00:06:15
C 192.168.12.0/24 [110/50] is directly connected, team0, 00:43:15
O 192.168.12.0/24 [110/50] is directly connected, team0, weight 1, 00:43:08
C 192.168.12.0/24 [110/100] is directly connected, enp0s10, weight 1, 00:43:08
C 192.168.23.0/24 [110/150] is directly connected, enp0s10, weight 1, 00:43:15
server2#

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F - FRR, f - OpenFabric,
* - selected route, * - FIB route, q - queued, r - rejected, b - backup
K> 0.0.0.0/0 [0/0] via 192.168.1.1, enp0s3, 00:31:04
O 1.1.1.1/32 [110/10] via 0.0.0.0, dummy0 onlink, weight 1, 00:31:04
C 2.2.2.2/32 [110/60] via 192.168.12.1, team0, weight 1, 00:30:14
O 3.3.3.3/32 [110/160] via 192.168.12.2, team0, weight 1, 00:30:14
O 111.111.111.111/32 [110/60] via 192.168.12.3, enp0s10, weight 1, 00:06:14
C 192.168.12.0/24 [110/50] is directly connected, team0, 00:31:04
O 192.168.12.0/24 [110/50] is directly connected, team0, weight 1, 00:30:53
O 192.168.23.0/24 [110/100] is directly connected, enp0s10, weight 1, 00:43:01
O 192.168.23.0/24 [110/150] via 192.168.12.2, team0, weight 1, 00:30:14
server1#

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server3# show ip route
Codes: K - kernel route, C - connected, S - static, R - RIP,
O - OSPF, I - IS-IS, B - BGP, E - EIGRP, N - NHRP,
T - Table, v - VNC, V - VNC-Direct, A - Babel, D - SHARP,
F - FRR, f - OpenFabric,
* - selected route, * - FIB route, q - queued, r - rejected, b - backup
K> 0.0.0.0/0 [0/0] via 192.168.1.1, enp0s3, 00:43:06
O 1.1.1.1/32 [110/160] via 192.168.23.2, enp0s8, weight 1, 00:30:10
O 2.2.2.2/32 [110/10] via 192.168.23.2, enp0s8, weight 1, 00:42:16
O 3.3.3.3/32 [110/10] via 0.0.0.0, dummy0 onlink, weight 1, 00:43:06
C 2.2.2.2/32 [110/10] via 192.168.23.2, enp0s8, weight 1, 00:06:15
C 192.168.12.0/24 [110/50] is directly connected, team0, 00:43:06
O 192.168.12.0/24 [110/150] via 192.168.23.2, enp0s8, weight 1, 00:42:16
O 192.168.23.0/24 [110/100] is directly connected, enp0s8, weight 1, 00:43:01
O 192.168.23.0/24 [110/150] is directly connected, enp0s8, weight 1, 00:43:06
server3#

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6: dummy0: <BROADCAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
link/ether ba:fa:ad:a0:48:10 brd ff:ff:ff:ff:ff:ff
inet 1.1.1.1/32 brd 1.1.1.1 scope global dummy0
valid_lft forever preferred_lft forever
inet6 fe80::baaf:iaff:fe40:4810/64 scope link
valid_lft forever preferred_lft forever

7: docker0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
link/ether 02:42:ac:12:00:00 brd ff:ff:ff:ff:ff:ff
inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
valid_lft forever preferred_lft forever
inet6 fe80::42:47ff:fe02:aa1/64 scope link
valid_lft forever preferred_lft forever

15: vethc0a7a0e1f14: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master docker0 state UP group default
link/ether 5a:7f:92:7f:50:10 brd ff:ff:ff:ff:ff:ff link-netnsid 0
inet6 fe80::507f:92ff:fe7f:5010/64 scope link
valid_lft forever preferred_lft forever

17: veth2fa5481ef16: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master docker0 state UP group default
link/ether 8a:0d:40:62:00:00 brd ff:ff:ff:ff:ff:ff link-netnsid 1
inet6 fe80::808d:43ff:fe03:053/64 scope link
valid_lft forever preferred_lft forever

18: dummy1: <BROADCAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
link/ether 7a:04:2f:3a:1a:a4 brd ff:ff:ff:ff:ff:ff
inet 111.111.111.1/32 scope global dummy1
valid_lft forever preferred_lft forever
inet6 fe80::7a04:2fff:fe3a:1aa4/64 scope link
valid_lft forever preferred_lft forever

root@server1:~#

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3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast master team0 state UP group default qlen 10
link/ether 08:00:27:70:c4:a4 brd ff:ff:ff:ff:ff:ff
inet6 fe80::a00:27ff:fe70:c4a4/64 scope link
valid_lft forever preferred_lft forever

4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast master team0 state UP group default qlen 10
link/ether 08:00:27:70:c4:a4 brd ff:ff:ff:ff:ff:ff permaddr 08:00:27:30:a4:c1
inet6 fe80::a00:27ff:fe70:c4a4/64 scope link
valid_lft forever preferred_lft forever

5: enp0s10: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
link/ether 08:00:27:38:42:0c brd ff:ff:ff:ff:ff:ff
inet 192.168.23.2/24 brd 192.168.23.255 scope global enp0s10
valid_lft forever preferred_lft forever

6: team0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
link/ether 08:00:27:70:c4:a4 brd ff:ff:ff:ff:ff:ff
inet 192.168.12.2/24 brd 192.168.12.255 scope global team0
valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fe38:40c/64 scope link
valid_lft forever preferred_lft forever

7: dummy0: <BROADCAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
link/ether ba:fa:ad:a0:48:10 brd ff:ff:ff:ff:ff:ff
inet 2.2.2.2/32 brd 2.2.2.2 scope global dummy0
valid_lft forever preferred_lft forever
inet6 fe80::baaf:iaff:fe40:4810/64 scope link
valid_lft forever preferred_lft forever

root@server2:~#

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server2# ip a
% Unknown command: ip a
server2# exit
root@server3:~# ip a
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: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
link/ether 08:00:27:56:52:5a brd ff:ff:ff:ff:ff:ff
inet 192.168.3.229/24 brd 192.168.1.255 scope global dynamic enp0s3
valid_lft 40525sec preferred_lft 40525sec
inet6 fe80::a00:27ff:fe56:525a/64 scope link
valid_lft forever preferred_lft forever

3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
link/ether 08:00:27:42:0a:14 brd ff:ff:ff:ff:ff:ff
inet 192.168.23.3/24 brd 192.168.23.255 scope global enp0s8
valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fe42:0a14/64 scope link
valid_lft forever preferred_lft forever

4: dummy0: <BROADCAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
link/ether ba:fa:ad:a0:48:10 brd ff:ff:ff:ff:ff:ff
inet 3.3.3.3/32 brd 3.3.3.3 scope global dummy0
valid_lft forever preferred_lft forever
inet6 fe80::baaf:iaff:fe40:4810/64 scope link
valid_lft forever preferred_lft forever

root@server3:~#

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