

testClient1 и testServer1 в vlan3

Смотрим конфигурации сети testClient1 и пингуем testServer1

Смотрим конфигурации сети testServer1 и пингуем testClient1

Смотрим конфигурации сети testClient2 и пингуем testServer2

```
■ 10. testClient1 × ■ 11. testServer1
                                                                                                                                                      2 12. testClient2
                                                                                                                                                                                                      X 13. testServer2 X
 root@testClient2:~# ip a
 1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
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: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000 link/ether 00:50:56:a9:eb:e2 brd ff:ff:ff:ff:ff
          altname enp3s0
          inet 10.100.11.145/24 brd 10.100.11.255 scope global ens160
  valid_lft forever preferred_lft forever
inet6 fe80::250:56ff:fea9:ebe2/64 scope link
valid_lft forever preferred_lft forever
3: ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
link/ether 00:50:56:a9:f4:f8 brd ff:ff:ff:ff:ff
          altname enp11s0
           inet6 fe80::250:56ff:fea9:f4f8/64 scope link
valid_lft forever preferred_lft forever
4: ens192.2@ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
link/ether 00:50:56:a9:f4:f8 brd ff:ff:ff:ff:ff
inet 10.10.10.254/24 brd 10.10.10.255 scope global ens192.2
   valid_lft forever preferred_lft forever
   inet6 fe80::250:56ff:fea9:f4f8/64 scope link
   valid_lft forever preferred_lft forever
root@testClient2:~#
root@testClient2:~#
root@testClient2:~#
ping 10.10.10.254
PING 10.10.10.254 (10.10.10.254) 56(84) bytes of data.
64 bytes from 10.10.10.254: icmp_seq=1 ttl=64 time=0.029 ms
64 bytes from 10.10.10.254: icmp_seq=2 ttl=64 time=0.022 ms
64 bytes from 10.10.10.254: icmp_seq=3 ttl=64 time=0.022 ms
 ^C
               .10.10.254 ping statistics
3 packets transmitted, 3 received, 0% packet loss, time 2034ms rtt min/avg/max/mdev = 0.022/0.024/0.029/0.003 ms root@testClient2:~# ■
```

Смотрим конфигурации сети testServer2 и пингуем testClient2

```
■ 10. testClient1 ■ 11. testServer1 ■ 12. testClient2 ■ 13. testServer2
        2. ubuntu1
 root@testServer2:~# 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 of forever preferred_lft forever
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
link/ether 00:50:56:a9:fb:a9 brd ff:ff:ff:ff:ff
        altname enp3s0
inet 10.100.11.146/24 brd 10.100.11.255 scope global ens160
valid_lft forever preferred_lft forever
inet6 fe80::250:56ff:fea9:fba9/64 scope link
valid_lft forever preferred_lft forever

3: ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
link/ether 00:50:56:a9:82:aa brd ff:ff:ff:ff:ff
        altname enp11s0
inet6 fe80::250:56ff:fea9:82aa/64 scope link
valid_lft forever preferred_lft forever

4: ens192.2@ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
        root@testServer2:~#
root@testServer2:~# ping 10.10.10.254
PING 10.10.10.254 (10.10.10.254) 56(84) bytes of data.
64 bytes from 10.10.10.254: icmp_seq=1 ttl=64 time=0.203 ms
64 bytes from 10.10.10.254: icmp_seq=2 ttl=64 time=0.125 ms
 ^C
--- 10.10.10.254 ping statistics --- 2 packets transmitted, 2 received, 0% packet loss, time 1005ms rtt min/avg/max/mdev_= 0.125/0.164/0.203/0.039 ms
root@testServer2:~#
```

C testClient1, testClient2 также доступен шлюз inetRouter

```
| 10. testClient1 | X | 12. testClient2 | 12. testClient2 | 12. testClient2 | 13. testClient1 | X | 14. testClient2 | 15. testClient2 | 15. testClient2 | 16. testClient2 | 16
```

проверяем работу bond-интерфейса, для этого, на хосте inetRouter(192.168.255.1) запустим ping до centralRouter (192.168.255.2):

```
2. ubuntu1
                                      15. centralRouter
[root@inetRouter ~]# ping 192.168.255.2
PING 192.168.255.2 (192.168.255.2) 56(84) bytes of data.
64 bytes from 192.168.255.2: icmp_seq=1 ttl=64 time=0.771 ms
64 bytes from 192.168.255.2: icmp_seq=2 ttl=64 time=0.139
64 bytes from 192.168.255.2: icmp_seq=3 ttl=64 time=0.104
64 bytes from 192.168.255.2: icmp_seq=4 ttl=64 time=0.141 ms
64 bytes from 192.168.255.2: icmp_seq=5 ttl=64 time=0.143 ms
64 bytes from 192.168.255.2: icmp_seq=6 ttl=64 time=0.093 ms
64 bytes from 192.168.255.2: icmp_seq=7 ttl=64 time=0.113 ms
64 bytes from 192.168.255.2: icmp_seq=8 ttl=64 time=0.138 ms
64 bytes from 192.168.255.2: icmp_seq=9 ttl=64 time=0.115 ms
64 bytes from 192.168.255.2: icmp_seq=10 ttl=64 time=0.136 ms
64 bytes from 192.168.255.2: icmp_seq=11 ttl=64 time=0.119
64 bytes from 192.168.255.2: icmp_seq=12 ttl=64 time=0.115
64 bytes from 192.168.255.2:
                              icmp_seq=13 ttl=64 time=0.138
64 bytes from 192.168.255.2:
                              icmp_seq=14 ttl=64 time=0.109
64 bytes from 192.168.255.2:
                              icmp_seq=15 ttl=64 time=0.157
64 bytes from 192.168.255.2:
                              icmp_seq=16 ttl=64 time=0.107
64 bytes from 192.168.255.2:
                              icmp_seq=17 ttl=64 time=0.130
64 bytes from 192.168.255.2:
                              icmp_seq=18 ttl=64 time=0.095
64 bytes from 192.168.255.2:
                              icmp_seq=19 ttl=64 time=0.103 ms
64 bytes from 192.168.255.2:
                              icmp_seq=20 ttl=64 time=0.124
64 bytes from 192.168.255.2:
                              icmp_seq=21 ttl=64 time=0.112
64 bytes from 192.168.255.2:
                              icmp seq=22 ttl=64 time=0.135
64 bytes from 192.168.255.2:
                              icmp_seq=23 ttl=64 time=0.117
64 bytes from 192.168.255.2:
                              icmp_seq=24 ttl=64 time=0.101
64 bytes from 192.168.255.2:
                              icmp_seq=25 ttl=64 time=0.149
64 bytes from 192.168.255.2:
                              icmp_seq=26 ttl=64 time=0.113
64 bytes from 192.168.255.2:
                              icmp_seq=27
                                         ttl=64 time=0.182
64 bytes from 192.168.255.2:
                              icmp_seq=28 ttl=64 time=0.132
64 bytes from 192.168.255.2:
                              icmp_seq=29 ttl=64 time=0.102
64 bytes from 192.168.255.2:
                              icmp_seq=30 ttl=64 time=0.110
64 bytes from 192.168.255.2:
                              icmp_seq=31 ttl=64 time=0.203
64 bytes from 192.168.255.2:
                              icmp seq=32 ttl=64 time=0.092
64 bytes from 192.168.255.2:
                              icmp_seq=33 ttl=64 time=0.120
64 bytes from 192.168.255.2:
                              icmp_seq=34 ttl=64 time=0.118
   bytes from 192.168.255.2:
                              icmp_seq=35 ttl=64 time=0.120
64
   bytes from 192.168.255.2:
                              icmp_seq=36 ttl=64 time=0.152
64
   bytes from 192.168.255.2:
                              icmp_seq=37
64
                                          ttl=64 time=0.130
                              icmp_seq=38 ttl=64 time=0.104
   bytes from 192.168.255.2:
64
                              icmp_seq=39 ttl=64 time=0.106
   bytes from 192.168.255.2:
64 bytes from 192.168.255.2: icmp_seq=40 ttl=64 time=0.115
64 bytes from 192.168.255.2: icmp_seq=41 ttl=64 time=0.132
64 bytes from 192.168.255.2: icmp_seq=42 ttl=64 time=0.111 ms
^C
--- 192.168.255.2 ping statistics --- 42 packets transmitted, 42 received, 0% packet loss, time 41997ms
rtt min/avg/max/mdev = 0.092/0.139/0.771/0.101 ms
[root@inetRouter ~]#
```

Ha centralRouter смотрим интерфейс ens256

tcpdump –I ens256, трафик идет через ens256,

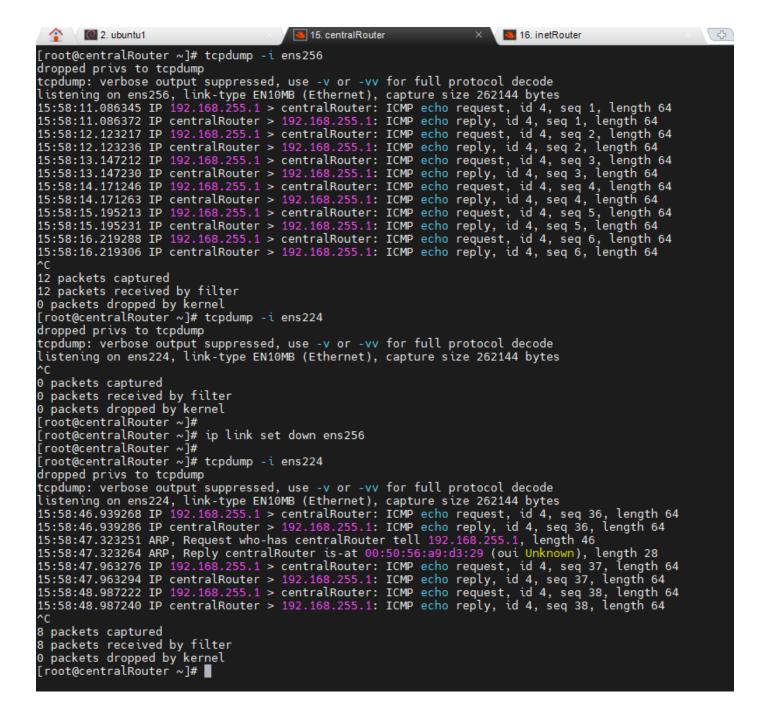
проверяем интерфейс ens224

tcpdump -I ens224, трафика нет

отключаем интерфейс ens256

ip link set down ens256

tcpdump -I ens224, трафик теперь идет через интерфейс ens224



ping не прерывался.