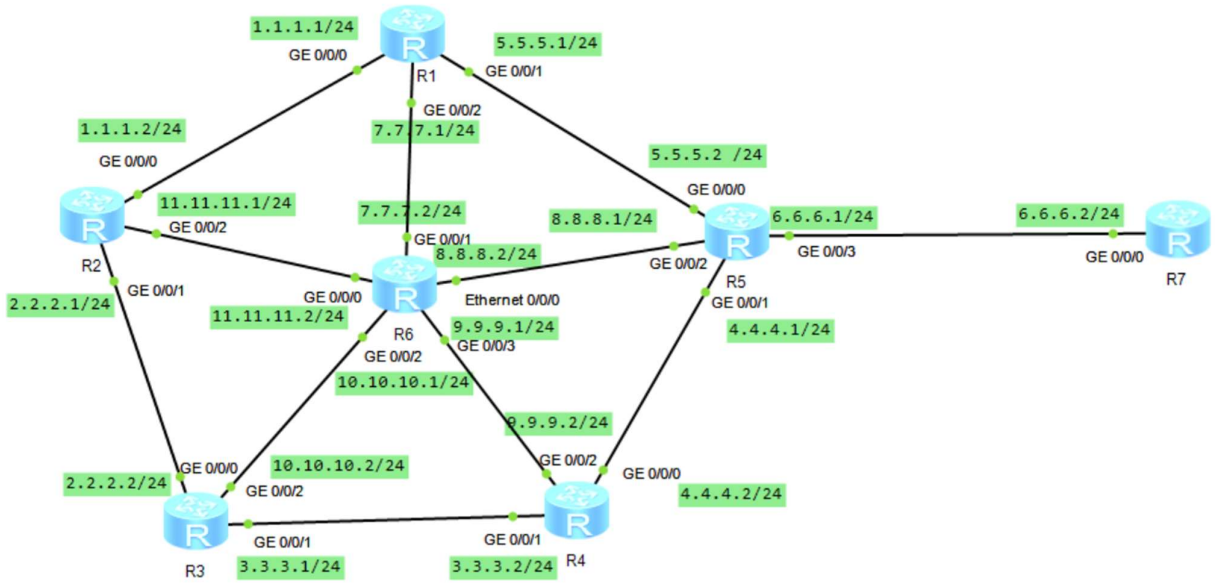
LAB-12

Implement the following scenario by applying RIP protocol (version 2).

eNSP simulation:



First, we assign the IP address to all connected interfaces of each router and then we configure rip version 2 on all routers.

CONFIGURATIONS:

R1:

```
interface GigabitEthernet0/0/0
 ip address 1.1.1.1 255.255.255.0
#
interface GigabitEthernet0/0/1
 ip address 5.5.5.1 255.255.255.0
#
interface GigabitEthernet0/0/2
 ip address 7.7.7.1 255.255.255.0
#
```

```
rip 1
 version 2
 network 1.0.0.0
 network 5.0.0.0
 network 7.0.0.0
#
```

R2:

```
interface GigabitEthernet0/0/0
 ip address 1.1.1.2 255.255.255.0
#
interface GigabitEthernet0/0/1
 ip address 2.2.2.1 255.255.255.0
#
interface GigabitEthernet0/0/2
 ip address 11.11.11.1 255.255.255.0
#
interface GigabitEthernet0/0/3
#
wlan
#
interface NULL0
#
rip 1
 version 2
 network 2.0.0.0
 network 1.0.0.0
 network 11.0.0.0
```

R3:

```
interface GigabitEthernet0/0/0
 ip address 2.2.2.2 255.255.255.0
#
interface GigabitEthernet0/0/1
 ip address 3.3.3.1 255.255.255.0
#
interface GigabitEthernet0/0/2
 ip address 10.10.10.2 255.255.255.0
#
interface GigabitEthernet0/0/3
#
wlan
#
interface NULL0
#
rip 1
 version 2
 network 2.0.0.0
 network 3.0.0.0
 network 10.0.0.0
```

R4:

```
interface GigabitEthernet0/0/0
 ip address 4.4.4.2 255.255.255.0
#
interface GigabitEthernet0/0/1
 ip address 3.3.3.2 255.255.255.0
#
interface GigabitEthernet0/0/2
 ip address 9.9.9.2 255.255.255.0
#
interface GigabitEthernet0/0/3
#
wlan
#
interface NULL0
#
rip 1
 version 2
 network 3.0.0.0
 network 4.0.0.0
 network 9.0.0.0
```

R5:

```
interface GigabitEthernet0/0/0
 ip address 5.5.5.2 255.255.255.0
#
interface GigabitEthernet0/0/1
 ip address 4.4.4.1 255.255.255.0
#
interface GigabitEthernet0/0/2
 ip address 8.8.8.1 255.255.255.0
#
interface GigabitEthernet0/0/3
 ip address 6.6.6.1 255.255.255.0
#
wlan
#
interface NULL0
#
rip 1
 version 2
 network 4.0.0.0
 network 5.0.0.0
 network 6.0.0.0
 network 8.0.0.0
```

R6:

```
interface Ethernet0/0/0
 ip address 8.8.8.2 255.255.255.0
#
interface GigabitEthernet0/0/0
 ip address 11.11.11.2 255.255.255.0
#
interface GigabitEthernet0/0/1
 ip address 7.7.7.2 255.255.255.0
#
interface GigabitEthernet0/0/2
 ip address 10.10.10.1 255.255.255.0
#
interface GigabitEthernet0/0/3
 ip address 9.9.9.1 255.255.255.0
#
wlan
#
interface NULL0
#
rip 1
 version 2
 network 7.0.0.0
 network 8.0.0.0
 network 9.0.0.0
 network 10.0.0.0
 network 11.0.0.0
```

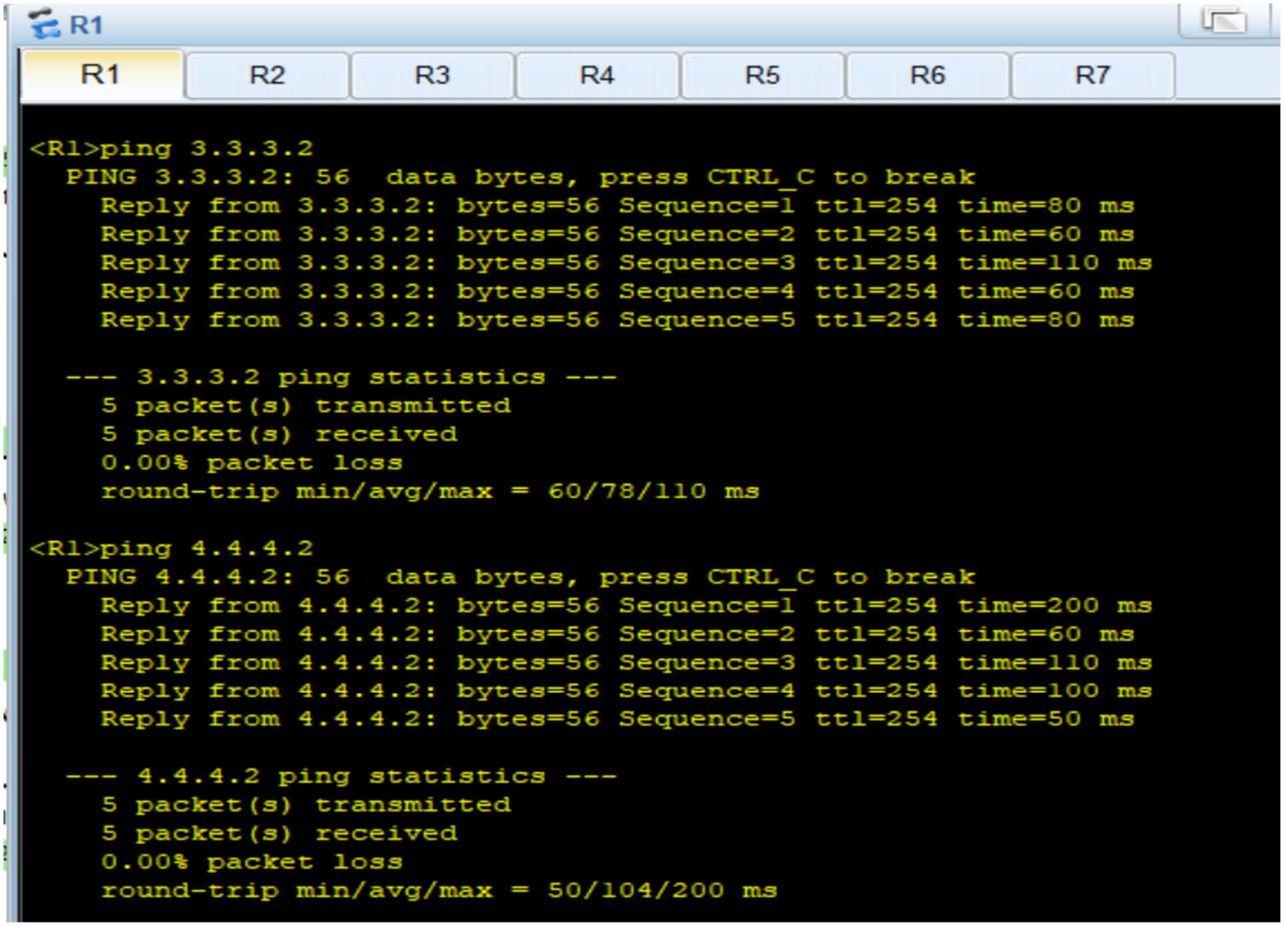
R7:

```
interface GigabitEthernet0/0/0
 ip address 6.6.6.2 255.255.255.0
#
interface GigabitEthernet0/0/1
#
interface GigabitEthernet0/0/2
#
interface GigabitEthernet0/0/3
#
wlan
#
interface NULL0
#
rip 1
 version 2
 network 6.0.0.0
```

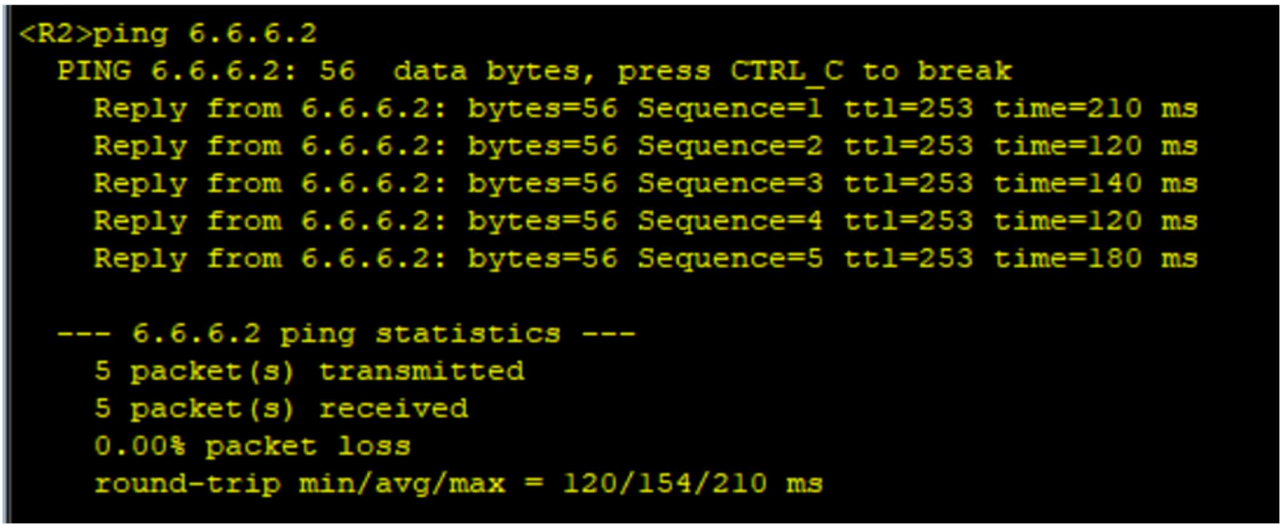
Testing:

Now we try to ping different networks from a router.

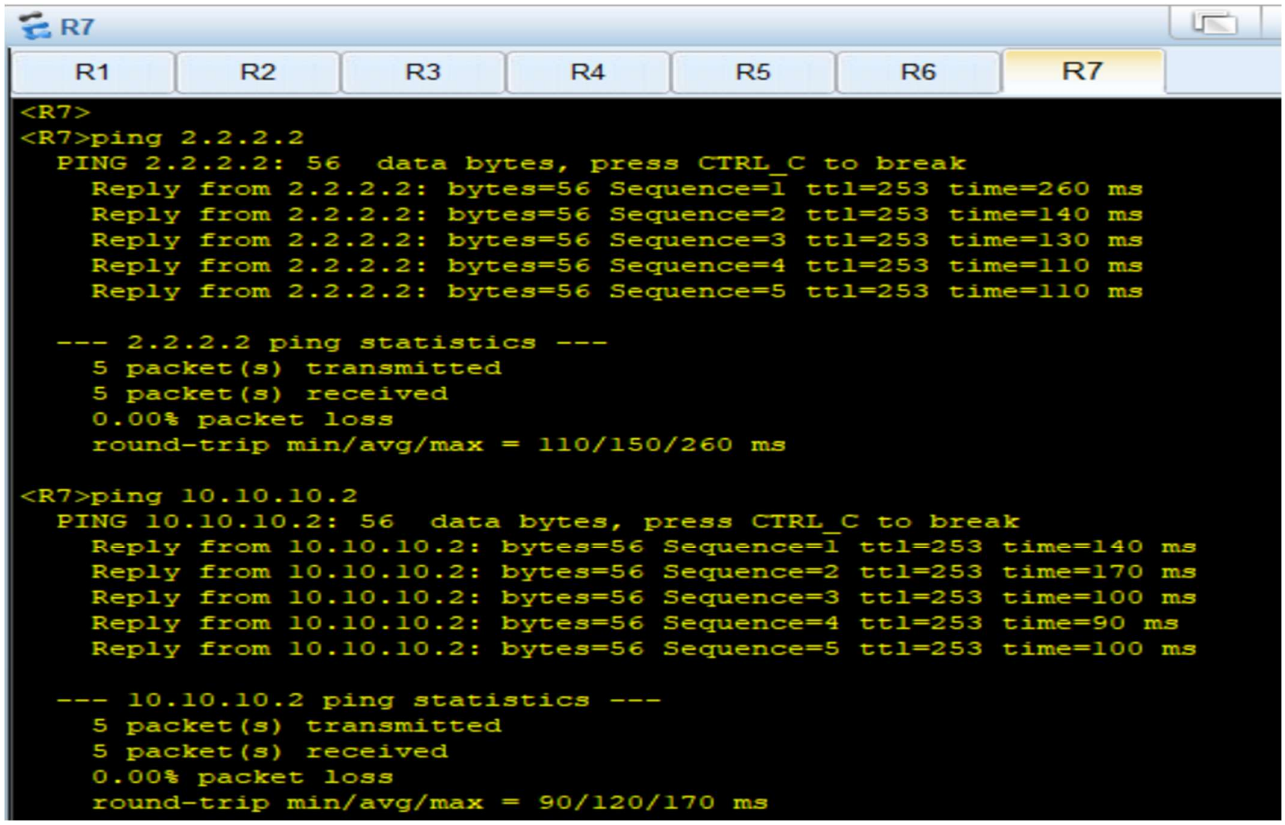
R4 from R1:



R7 from R2:



R3 from R7:



R2 FROM R5: