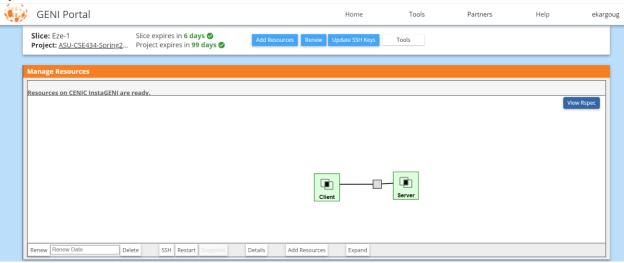
Exercise1

1)



2)

Server:

Data: 10.10.1.2 (eth1)

Control: 172.17.3.25 (eth0)

Client:

Data: 10.10.1.1 (eth1)

Control: 172.17.3.24 (eth0)

3)

```
## ekargoug@client:-

rtt min/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

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ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.556/0.675/0.963/0.129 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms
ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

ekargoug@client:-$ ping -c 5 10.10.1.2

rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms

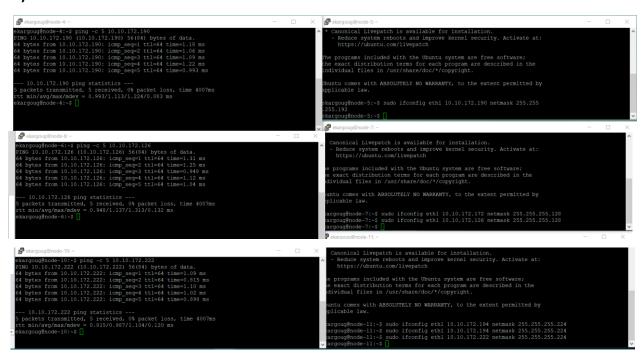
rtm in/avg/max/mdev = 0.637/11.299/53.882/21.291 ms
```

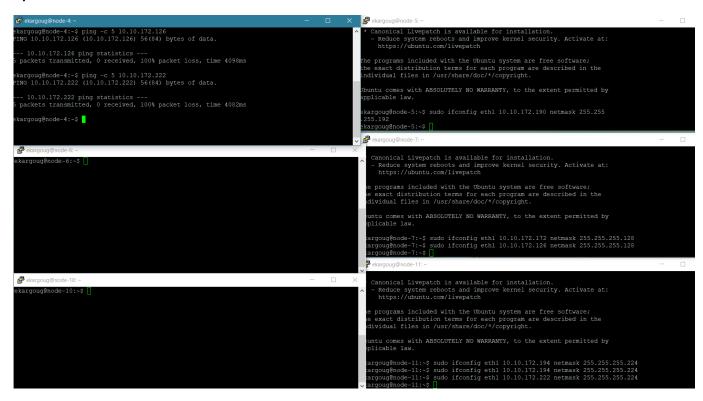
Exercise2

		The subnet mask	The network address	The smallest IPv4 address	The broadcast address	The highest IPv4 address
1	A	255.255.255.192	10.10.172.128	10.10.172.130	10.10.172.191	10.10.172190
	В	255.255.255.128	10.10.172.0	10.10.172.2	10.10.172.127	10.10.172.126
(С	255.255.255.224	10.10.172.192	10.10.172.194	10.10.172.223	10.10.172.222

Exercise3

1)



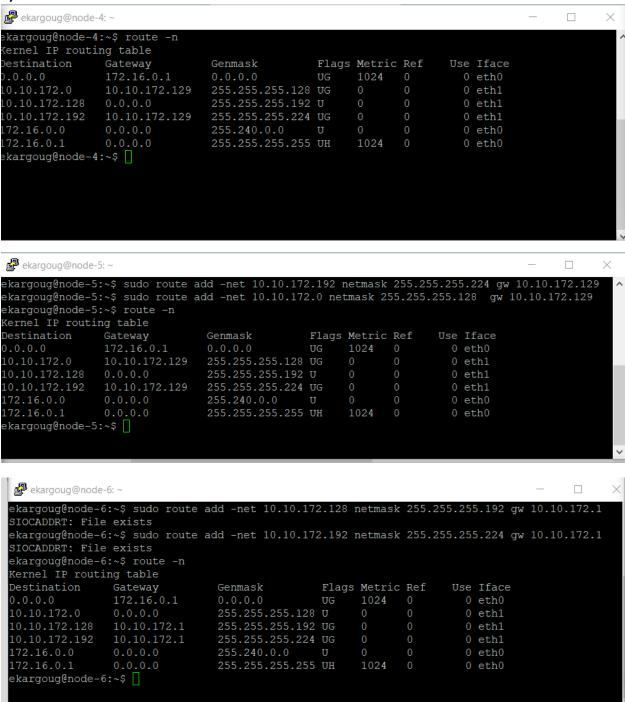


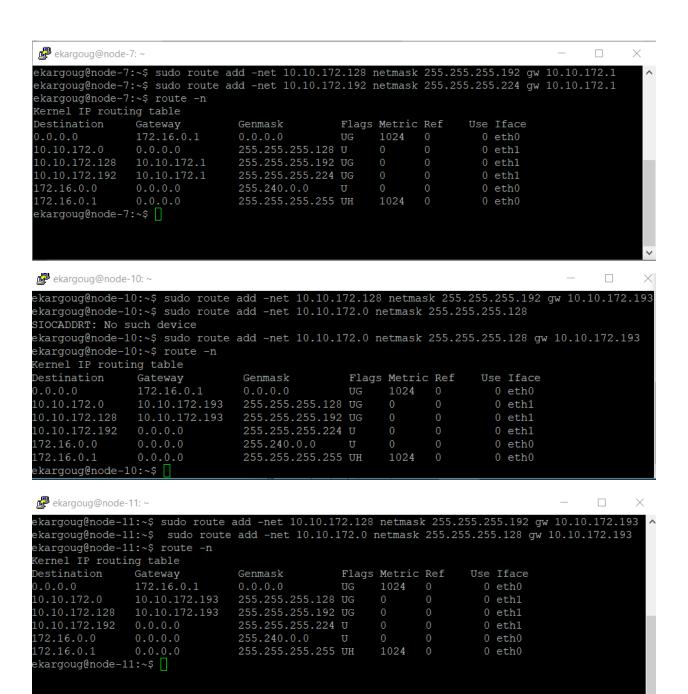


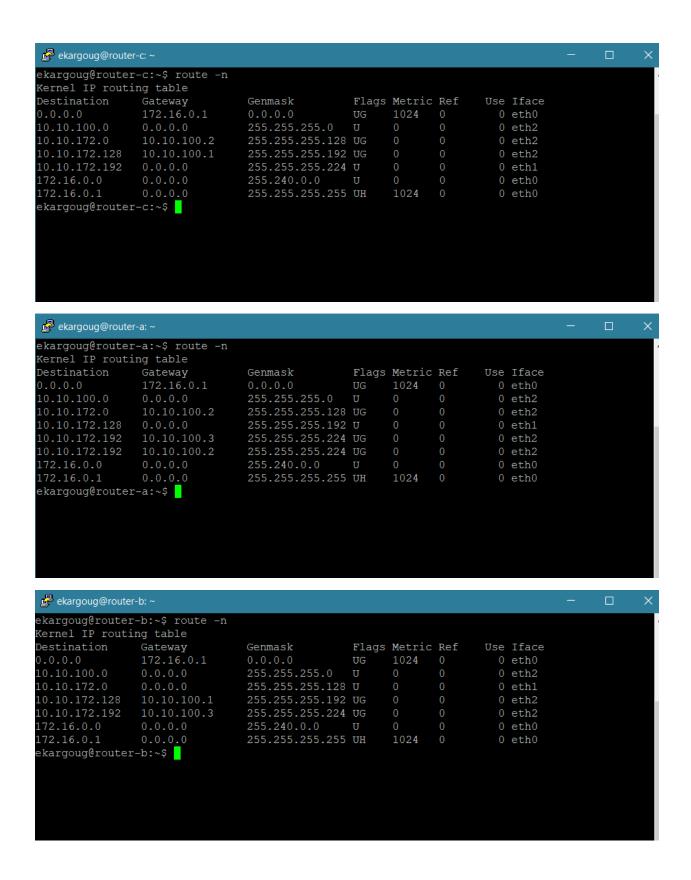
kargoug@node-10:~\$

Exercise 4

1)







```
ekargoug@node-11: ~
             [-l preload] [-m mark] [-M pmtudisc option]
             [-N nodeinfo option] [-p pattern] [-Q tclass] [-s packetsize]
             [-S sndbuf] [-t ttl] [-T timestamp option] [-w deadline]
             [-W timeout] destination
ekargoug@node-11:~$ ping -c 5 10.10.172.130
PING 10.10.172.130 (10.10.172.130) 56(84) bytes of data.
64 bytes from 10.10.172.130: icmp seq=1 ttl=62 time=2.49 ms
64 bytes from 10.10.172.130: icmp seq=2 ttl=62 time=1.96 ms
64 bytes from 10.10.172.130: icmp seq=3 ttl=62 time=2.20 ms
64 bytes from 10.10.172.130: icmp seq=4 ttl=62 time=2.12 ms
64 bytes from 10.10.172.130: icmp seq=5 ttl=62 time=2.26 ms
-- 10.10.172.130 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
ott min/avg/max/mdev = 1.961/2.209/2.493/0.182 ms
ekargoug@node-11:~$
ekargoug@node-5: ~
172.16.0.0
                 0.0.0.0
                                  255.240.0.0
                                                                           0 eth0
172.16.0.1
                 0.0.0.0
                                  255.255.255.255 UH
                                                          1024
                                                                           0 eth0
ekargoug@node-5:~$ ping -c 5 10.10.172.2
PING 10.10.172.2 (10.10.172.2) 56(84) bytes of data.
64 bytes from 10.10.172.2: icmp_seq=1 ttl=62 time=6.64 ms
64 bytes from 10.10.172.2: icmp_seq=2 ttl=62 time=3.20 ms
64 bytes from 10.10.172.2: icmp_seq=3 ttl=62 time=3.34 ms 64 bytes from 10.10.172.2: icmp_seq=4 ttl=62 time=2.87 ms
64 bytes from 10.10.172.2: icmp seq=5 ttl=62 time=3.45 ms
--- 10.10.172.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4007ms
rtt min/avg/max/mdev = 2.879/3.905/6.645/1.385 ms
ekargoug@node-5:~$
 ekargoug@node-10: ~
             [-S sndbuf] [-t ttl] [-T timestamp option] [-w deadline]
             [-W timeout] destination
ekargoug@node-10:~$ ping -c 5 10.10.172.194
PING 10.10.172.194 (10.10.172.194) 56(84) bytes of data.
64 bytes from 10.10.172.194: icmp_seq=1 ttl=64 time=0.068 ms
```

```
64 bytes from 10.10.172.194: icmp_seq=2 ttl=64 time=0.069 ms
64 bytes from 10.10.172.194: icmp_seq=3 ttl=64 time=0.073 ms
64 bytes from 10.10.172.194: icmp_seq=4 ttl=64 time=0.086 ms
64 bytes from 10.10.172.194: icmp_seq=5 ttl=64 time=0.048 ms
--- 10.10.172.194 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4092ms
rtt min/avg/max/mdev = 0.048/0.068/0.086/0.016 ms
 ekargoug@node-10:~$
```

