**CSE421**

**Project**

**Topic: The Recruit**

**Section-5**

**Group-505**

**By**

**Ahnaf Tahmid (20101555)**

**Akib Zabed Ifti (20101113)**

**Rashad Rahman (18301004)**

**Abdullah Al Fahim (18201099)**

**Router Commands:**

**New York:**

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet6/0

Router(config-if)#ip address 100.100.0.193 255.255.255.224

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet5/0

Router(config-if)#ip address 100.100.1.17 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet9/0

Router(config-if)#ip address 100.100.1.21 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet8/0

Router(config-if)#ip address 100.100.1.25 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet7/0

Router(config-if)#ip address 100.100.1.37 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#copy run start

Router>en

Router#conf t

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#no auto-summary

Router(config-router)#network 100.100.0.192

Router(config-router)#network 100.100.1.36

Router(config-router)#network 100.100.1.24

Router(config-router)#network 100.100.1.16

Router(config-router)#network 100.100.1.20

Router(config-router)#network 100.100.0.0

Router(config-router)#network 100.100.1.32

Router(config-router)#network 100.100.0.224

Router(config-router)#network 100.100.1.0

Router(config-router)#network 100.100.0.64

Router(config-router)#network 100.100.0.128

Router(config-router)#passive-interface g6/0

Router(config-router)#default-information originate

Router(config-router)#exit

Router(config)#exit

Router#copy run start

Router>en

Router#conf t

Router(config)#ip route 100.100.0.128 255.255.255.192 g5/0

Router(config)#ip route 100.100.0.0 255.255.255.192 g7/0

Router(config)#ip route 100.100.0.224 255.255.255.224 g7/0

Router(config)#ip route 100.100.1.0 255.255.255.240 g8/0

Router(config)#ip route 100.100.0.0 255.255.255.192 GigabitEthernet8/0 5

Router(config)#ip route 100.100.0.224 255.255.255.224 GigabitEthernet8/0 5

Router(config)#exit

Router#copy run start

**California:**

Router>enable

Router#configure terminal

Router(config)#interface GigabitEthernet7/0

Router(config-if)#ip address 100.100.1.34 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet6/0

Router(config-if)#ip address 100.100.0.1 255.255.255.192

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#copy run start

Router>en

Router#conf t

Router(config)#ip route 100.100.0.224 255.255.255.224 g7/0

Router(config)#ip route 100.100.0.192 255.255.255.224 g7/0

Router(config)#ip route 100.100.1.0 255.255.255.240 g7/0

Router(config)#ip route 100.100.0.128 255.255.255.192 g7/0

Router(config)#ip route 100.100.0.64 255.255.255.192 g7/0

Router(config)#exit

Router#copy run start

**Nevada:**

Router>enable

Router#configure terminal

Router(config)#interface GigabitEthernet6/0

Router(config-if)#ip address 100.100.1.18 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet7/0

Router(config-if)#ip address 100.100.0.129 255.255.255.192

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#copy run start

Router>en

Router#conf t

Router(config)#ip route 100.100.0.192 255.255.255.224 g6/0

Router(config)#ip route 100.100.0.64 255.255.255.192 g6/0

Router(config)#ip route 100.100.0.0 255.255.255.192 g6/0

Router(config)#ip route 100.100.0.224 255.255.255.224 g6/0

Router(config)#ip route 100.100.1.0 255.255.255.240 g6/0

Router(config)#exit

Router#copy run start

**Arizona:**

Router>enable

Router#configure terminal

Router(config)#interface GigabitEthernet7/0

Router(config-if)#ip address 100.100.1.26 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 100.100.1.30 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet6/0

Router(config-if)#ip address 100.100.1.1 255.255.255.240

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#copy run start

Router>en

Router#conf t

Router(config)#ip route 100.100.0.224 255.255.255.224 f0/0 5 //floating route to TX

Router(config)#ip route 100.100.0.224 255.255.255.224 g7/0

Router(config)#ip route 100.100.0.192 255.255.255.224 g7/0

Router(config)#ip route 100.100.0.0 255.255.255.192 g7/0

Router(config)#ip route 100.100.0.64 255.255.255.192 g7/0

Router(config)#ip route 100.100.0.128 255.255.255.192 g7/0

Router(config)#ip route 100.100.0.0 255.255.255.192 f0/0 5 //floating route to CA

Router(config)#exit

Router#copy run start

**Texas:**

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet7/0

Router(config-if)#ip address 100.100.1.38 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet8/0

Router(config-if)#ip address 100.100.1.33 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface FastEthernet1/0

Router(config-if)#ip address 100.100.1.29 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet6/0

Router(config-if)#ip address 100.100.0.225 255.255.255.224

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#copy run start

Router>en

Router#conf t

Router(config)#ip route 100.100.0.0 255.255.255.192 g8/0

Router(config)#ip route 100.100.0.64 255.255.255.192 g7/0

Router(config)#ip route 100.100.1.0 255.255.255.240 g7/0

Router(config)#ip route 100.100.1.0 255.255.255.240 f1/0 5 //floating route to AZ

Router(config)#ip route 100.100.0.192 255.255.255.224 g7/0

Router(config)#ip route 100.100.0.128 255.255.255.192 g7/0

Router(config)#ip route 100.100.0.128 255.255.255.192 f1/0 5 //floating route to NV

Router(config)#ip route 100.100.0.64 255.255.255.192 f1/0 5 //floating route to FL

Router(config)#ip route 100.100.0.192 255.255.255.224 f1/0 5 //floating route to NY

Router(config)#exit

Router#copy run start

**Florida:**

Router>enable

Router#configure terminal

Router(config)#interface GigabitEthernet7/0

Router(config-if)#ip address 100.100.0.65 255.255.255.192

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface GigabitEthernet6/0

Router(config-if)#ip address 100.100.1.22 255.255.255.252

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#exit

Router#copy run start

Router>en

Router#conf t

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#no auto-summary

Router(config-router)#network 100.100.0.64

Router(config-router)#network 100.100.1.20

Router(config-router)#network 100.100.0.128

Router(config-router)#network 100.100.0.192

Router(config-router)#network 100.100.1.0

Router(config-router)#network 100.100.0.224

Router(config-router)#network 100.100.0.0

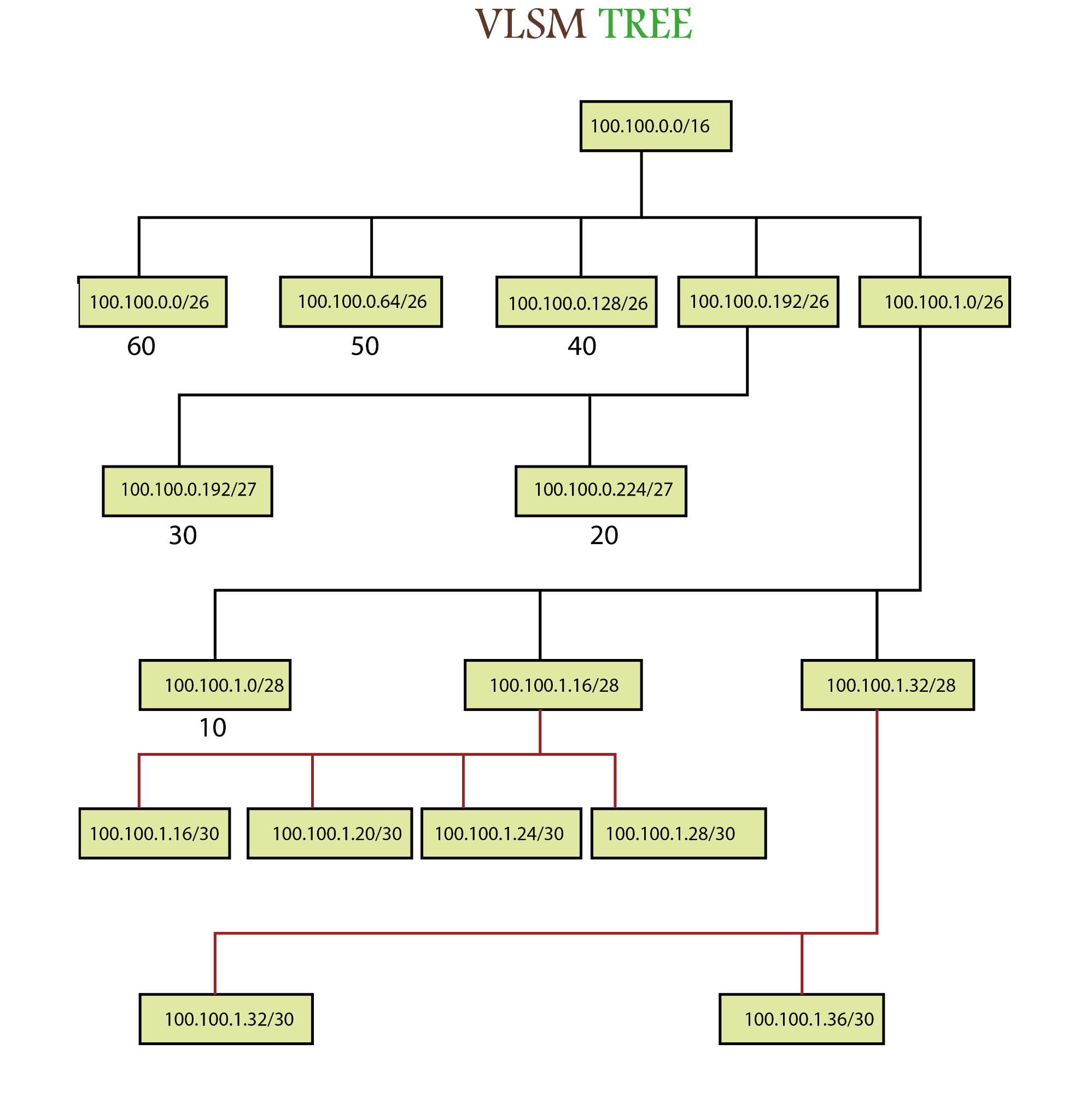
Router(config-router)#passive-interface g7/0

Router(config-router)#exit

Router(config)#exit

Router#copy run start

**VLSM Tree:**



**IP Address Table:**

| **Device** | **Interface** | **IPv4 Address** | **Subnet Mask** | **Default Gateway** |
| --- | --- | --- | --- | --- |
| **New York**  **(Router)** | G6/0 | 100.100.0.193 | 255.255.255.224 | N/A |
| G5/0 | 100.100.1.17 | 255.255.255.252 | N/A |
| G9/0 | 100.100.1.21 | 255.255.255.252 | N/A |
| G8/0 | 100.100.1.25 | 255.255.255.252 | N/A |
| G7/0 | 100.100.1.37 | 255.255.255.252 | N/A |
| **California**  **(Router)** | G7/0 | 100.100.1.34 | 255.255.255.252 | N/A |
| G6/0 | 100.100.0.1 | 255.255.255.192 | N/A |
| **Nevada**  **(Router)** | G6/0 | 100.100.1.18 | 255.255.255.252 | N/A |
| G7/0 | 100.100.0.129 | 255.255.255.192 | N/A |
| **Florida**  **(Router)** | G7/0 | 100.100.0.65 | 255.255.255.192 | N/A |
| G6/0 | 100.100.1.22 | 255.255.255.252 | N/A |
| **Texas**  **(Router)** | G7/0 | 100.100.1.38 | 255.255.255.252 | N/A |
| G8/0 | 100.100.1.33 | 255.255.255.252 | N/A |
| F1/0 | 100.100.1.29 | 255.255.255.252 | N/A |
| G6/0 | 100.100.0.225 | 255.255.255.224 | N/A |
| **Arizona**  **(Router)** | G7/0 | 100.100.1.26 | 255.255.255.252 | N/A |
| F0/0 | 100.100.1.30 | 255.255.255.252 | N/A |
| G6/0 | 100.100.1.1 | 255.255.255.240 | N/A |
| **PC0** | NIC | 100.100.0.197 | 255.255.255.224 | 100.100.0.193 |
| **PC1** | NIC | 100.100.0.198 | 255.255.255.224 | 100.100.0.193 |
| **PC2** | NIC | 100.100.0.199 | 255.255.255.224 | 100.100.0.193 |
| **PC3** | NIC | 100.100.0.8 | 255.255.255.192 | 100.100.0.1 |
| **PC4** | NIC | 100.100.0.6 | 255.255.255.192 | 100.100.0.1 |
| **PC5** | NIC | 100.100.0.7 | 255.255.255.192 | 100.100.0.1 |
| **PC6** | NIC | 100.100.0.11 | 255.255.255.192 | 100.100.0.1 |
| **PC7** | NIC | 100.100.0.9 | 255.255.255.192 | 100.100.0.1 |
| **PC8** | NIC | 100.100.0.227 | 255.255.255.224 | 100.100.0.225 |
| **PC9** | NIC | 100.100.0.228 | 255.255.255.224 | 100.100.0.225 |
| **PC10** | NIC | 100.100.1.3 | 255.255.255.240 | 100.100.1.1 |
| **PC11** | NIC | 100.100.0.137 | 255.255.255.192 | 100.100.0.129 |
| **PC12** | NIC | 100.100.0.134 | 255.255.255.192 | 100.100.0.129 |
| **PC13** | NIC | 100.100.0.135 | 255.255.255.192 | 100.100.0.129 |
| **PC14** | NIC | 100.100.0.136 | 255.255.255.192 | 100.100.0.129 |
| **PC15** | NIC | 100.100.0.73 | 255.255.255.192 | 100.100.0.65 |
| **PC16** | NIC | 100.100.0.71 | 255.255.255.192 | 100.100.0.65 |
| **PC17** | NIC | 100.100.0.70 | 255.255.255.192 | 100.100.0.65 |
| **PC18** | NIC | 100.100.0.72 | 255.255.255.192 | 100.100.0.65 |
| **PC19** | NIC | 100.100.0.5 | 255.255.255.192 | 100.100.0.1 |
| **PC20** | NIC | 100.100.0.74 | 255.255.255.192 | 100.100.0.65 |
| **Laptop 0** | NIC | 100.100.0.11 | 255.255.255.192 | 100.100.0.1 |
| **Laptop 1** | NIC | 100.100.0.69 | 255.255.255.192 | 100.100.0.65 |
| **FL DHCP server** | NIC | 100.100.0.66 | 255.255.255.192 | 100.100.0.65 |
| **NV DHCP server** | NIC | 100.100.0.130 | 255.255.255.192 | 100.100.0.129 |
| **CA DHCP server** | NIC | 100.100.0.2 | 255.255.255.192 | 100.100.0.1 |
| **AZ DHCP server** | NIC | 100.100.1.2 | 255.255.255.240 | 100.100.1.1 |
| **TX Email server** | NIC | 100.100.0.226 | 255.255.255.224 | 100.100.0.225 |
| **NY Web server** | NIC | 100.100.0.195 | 255.255.255.224 | 100.100.0.193 |
| **NY DNS server** | NIC | 100.100.0.194 | 255.255.255.224 | 100.100.0.193 |