Task 2

CCNA

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سكشن 1 (20220126)

Task 2

Initial IP address: 192.168.1.0/24

Subnet C \rightarrow No. of hosts = 60 | 2^n-2 = 60 | n = 6

Next Hop = 64

New subnet (binary) = 1111 1111.1111 1111.1111 1111.1100 0000

New subnet (decimal) = 255.255.255.192 or / 26

Network IP = 192.168.1.0

Host Range = 192.168.1.1 - 192.168.1.62

Broadcast IP = 192.168.1.63

Subnet B \rightarrow No. of hosts = 30 | 2^n-2 = 30 | n = 5

Next Hop = 32

New subnet (binary) = 1111 1111.1111 1111.1111 1111.1110 0000

New subnet (decimal) = 255.255.255.224 or / 27

Network IP = 192.168.1.64

Host Range = 192.168.1.65 - 192.168.1.94

Broadcast IP = 192.168.1.95

Subnet A \rightarrow No. of hosts = 14 | | 2^n-2 = 14 | n = 4

Next Hop = 16

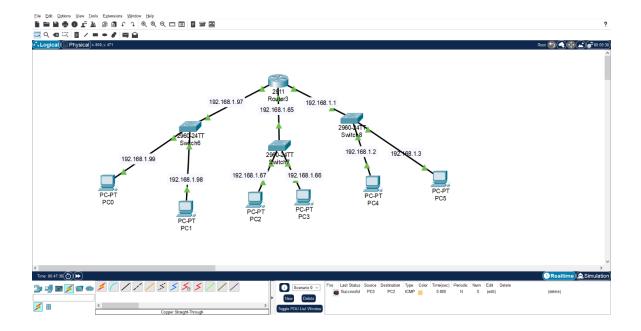
New subnet (binary) = 1111 1111.1111 1111.1111 1111.1111 0000

New subnet (decimal) = 255.255.255.240 or / 28

Network IP = 192.168.1.96

Host Range = 192.168.1.97 - 192.168.1.110

Broadcast IP = 192.168.1.111



Interfaces Configurations

G0/0:

```
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int
Router(config)#interface g0/0
Router(config-if)#IP ad
Router(config-if)#IP address 192.168.1.97 255.255.255.240
Router(config-if)#no shutd
Router(config-if)#no shutdown
```

G0/1:

```
Router(config) #in
Router(config) #interface g0/1
Router(config-if) #IP ad
Router(config-if) #IP address 192.168.1.65 255.255.254
Router(config-if) #no sh
Router(config-if) #no shutdown
```

G0/2:

```
Router(config) #inter
Router(config) #interface g0/2
Router(config-if) #ip add
Router(config-if) #ip address 192.168.1.1 255.255.255.192
Router(config-if) #no shyt
Router(config-if) #no shut
Router(config-if) #no shutdown
```

Ping from PC0 to all other PCs

```
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<lms TTL=127

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```