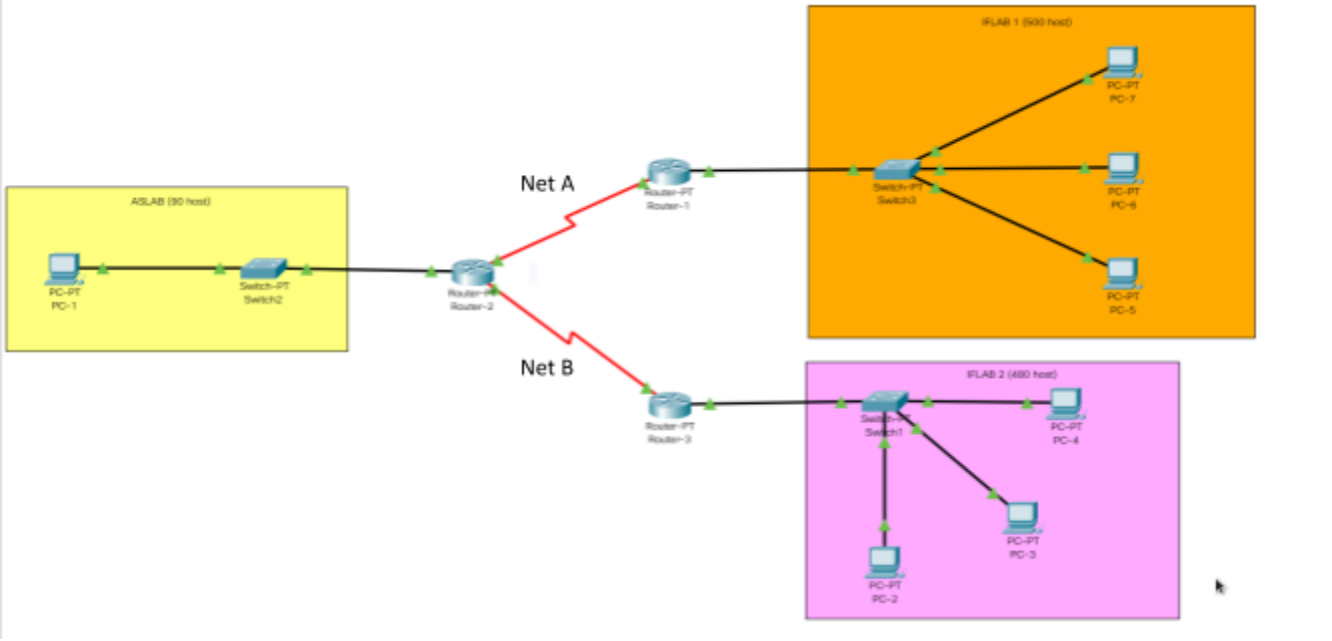
Soal Jurnal Modul 5



Diketahui sebuah topology seperti gambar diatas. Topologi tersebut memiliki network 10.30.40.0/20. Implementasi topologi diatas dengan menggunakan tool Cisco Packet Tracer, lakukan:

a. Isi table Subnetting
b. Definisikan alamat IP pada setiap PC dan interface router (sertakan screenshoot)

Router 1

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip add 10.30.45.128 255.255.255.252
Bad mask /30 for address 10.30.45.128
Router(config-if)#ip add 10.30.45.128 255.255.255.252
Bad mask /30 for address 10.30.45.128
Router(config-if)#no shutdown
```

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int se2/0
Router(config-if)#ip add 10.30.45.130 255.255.255.252
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
```

Router 2

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip add 10.30.45.129 255.255.255.252
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
```

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int se2/0
Router(config-if)#ip add 10.30.45.131 255.255.255.252
Bad mask /30 for address 10.30.45.131
Router(config-if)#no shutdown

Router(config)#int fa4/0
Router(config-if)#ip add 10.30.45.134 255.255.255.252
Router(config-if)#no shutdown
```

Router 3

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip add 10.30.45.132 255.255.255.252
Bad mask /30 for address 10.30.45.132
Router(config-if)#no shutdown
```

```
Router(config)#int se2/0
Router(config-if)#ip add 10.30.45.133 255.255.255.252
Router(config-if)#no shutdown
```

c. Lakukan konfigurasi static routing pada setiap router (sertakan screenshoot)
d. Tes konektivitas (seratakan screenshoot)
   - PC-1 ke PC-2
   - PC-1 ke PC-7
   - PC-2 ke PC-7

Gunakan CLI (Command Line Interface) untuk konfigurasi device. Anda diperbolehkan menggunakan kalkulator offline / bawaan windows untuk perhitungan subnetting. Berikut adalah kondisi jaringan untuk topologi diatas:

- IFLAB 1: 500 Host
- IFLAB 2: 480 Host
- ASLAB: 90 Host
- Network A: 2 Host
- Network B: 2 Host

a. Table Subnetting

Subnet Name	Needed Size	Allocated Size	Address	Prefix	Subnet Mask	Range	Broadcast
IFLAB 1	500	510 (512)	10.30.40.0	/23	255.255.254.0	10.30.40.1 - 10.30.41.254	10.30.41.255
IFLAB 2	480	510 (512)	10.30.42.0	/23	255.255.254.0	10.30.42.1 - 10.30.43.254	10.30.43.255
ASLAB	90	126 (128)	10.30.44.0	/25	255.255.255.128	10.30.44.1 - 10.30.45.126	10.30.45.127
NET A	2	2 (4)	10.30.45.128	/30	255.255.255.252	10.30.45.129 - 10.30.45.130	10.30.45.131
NET B	2	2 (4)	10.30.45.132	/30	255.255.255.252	10.30.45.133 - 10.30.45.134	10.30.45.135

===SELAMAT MENGERJAKAN===