

NAMA : Naufal Alip Pratama

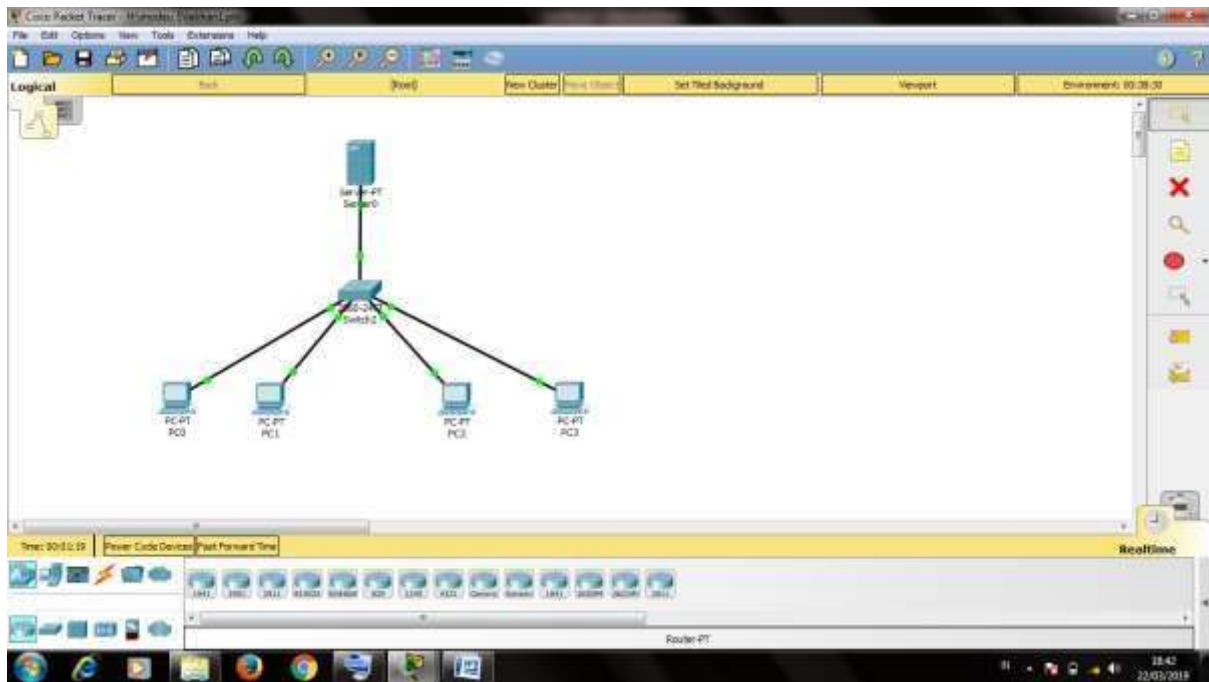
NIM : L200170056

KELAS : B

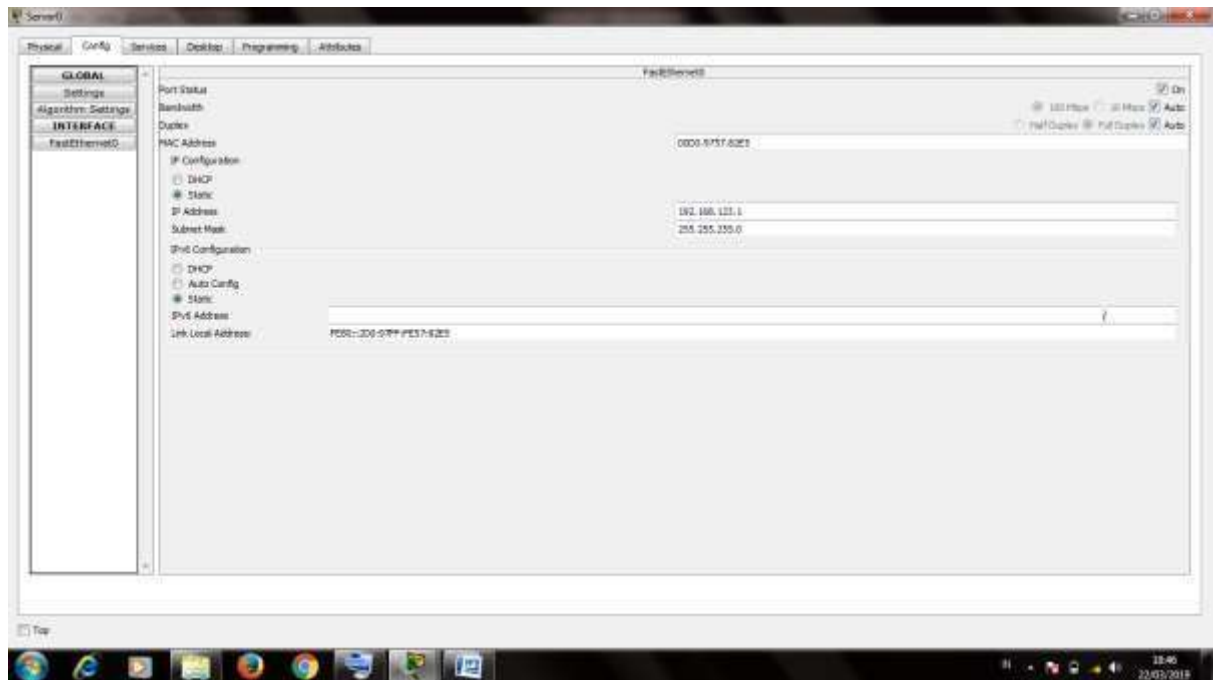
MODUL 5

1. PRAKTIKUM 1 MEMBUAT DHCP SERVER

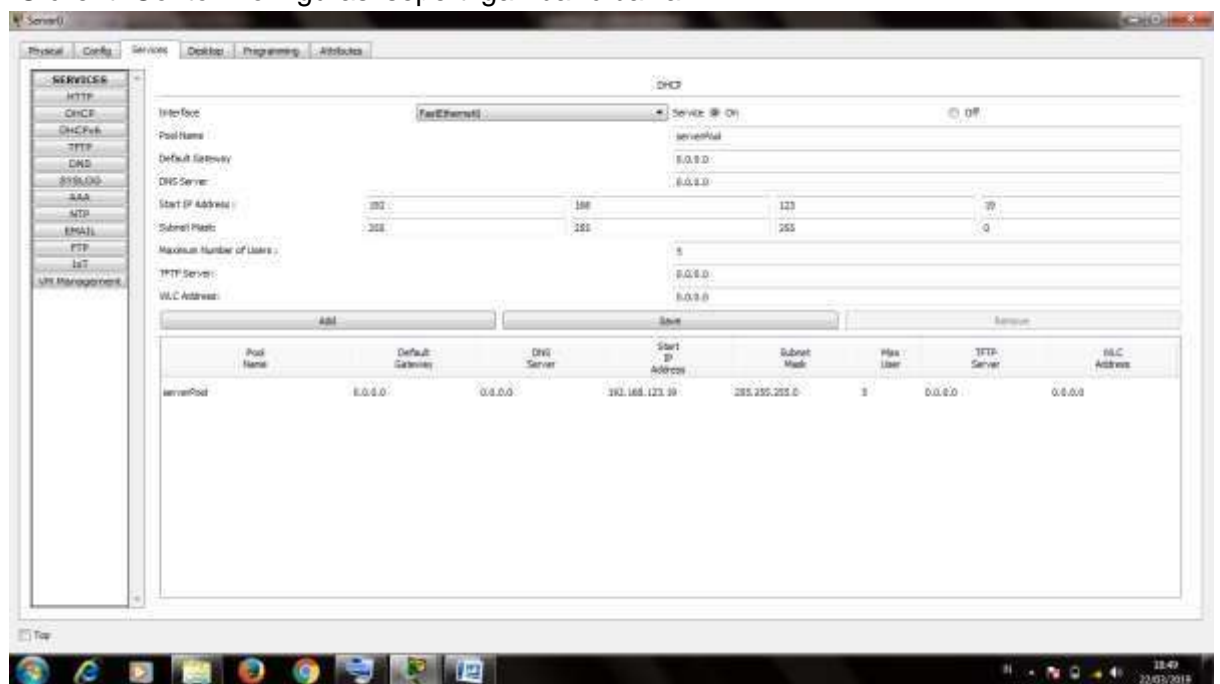
Persiapkan simulasi server DHCP dalam contoh ini adalah dengan menggunakan 5 buah workstation, 1 switch, dan 1 server sehingga terlihat seperti gambar 14 di bawah ini.



- a. Double-klik Server0. Pilih tab Config. Pada menu interface , pilih Fast-Ethernet. Pada bagian IP Configuration, isikan IP address server, dalam contoh ini 192.168.123.1 subnet mask 255.255.255.0.

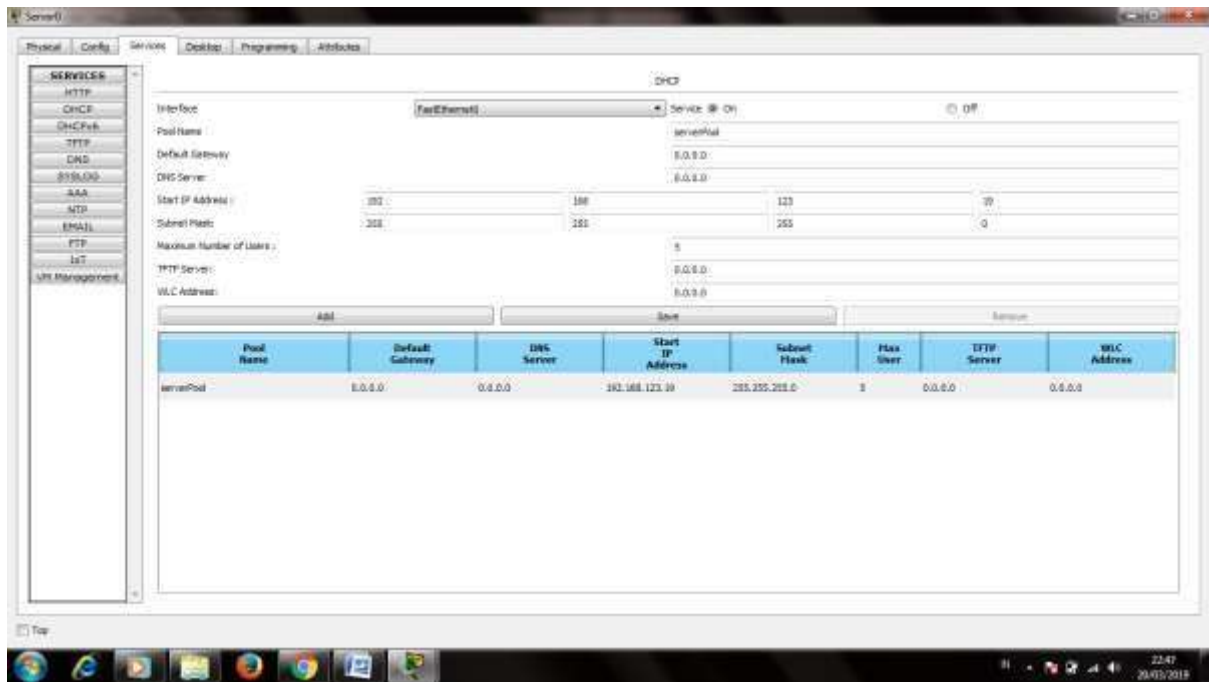


- b. Untuk konfigurasi dhcp server pada jendela properties server 0 pada services, pilih DHCP. Pastikan service DHCP On. Isikan blok IP address yang akan diberikan ke PC client. Contoh konfigurasi seperti gambar dibawah ini.

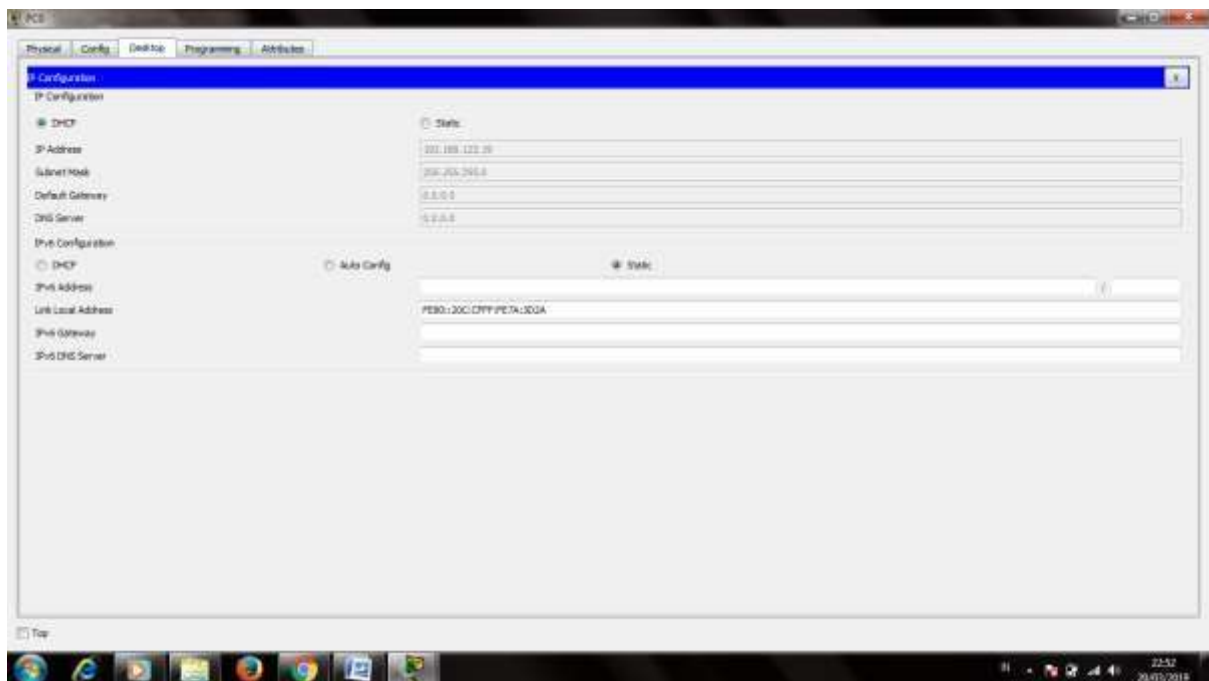


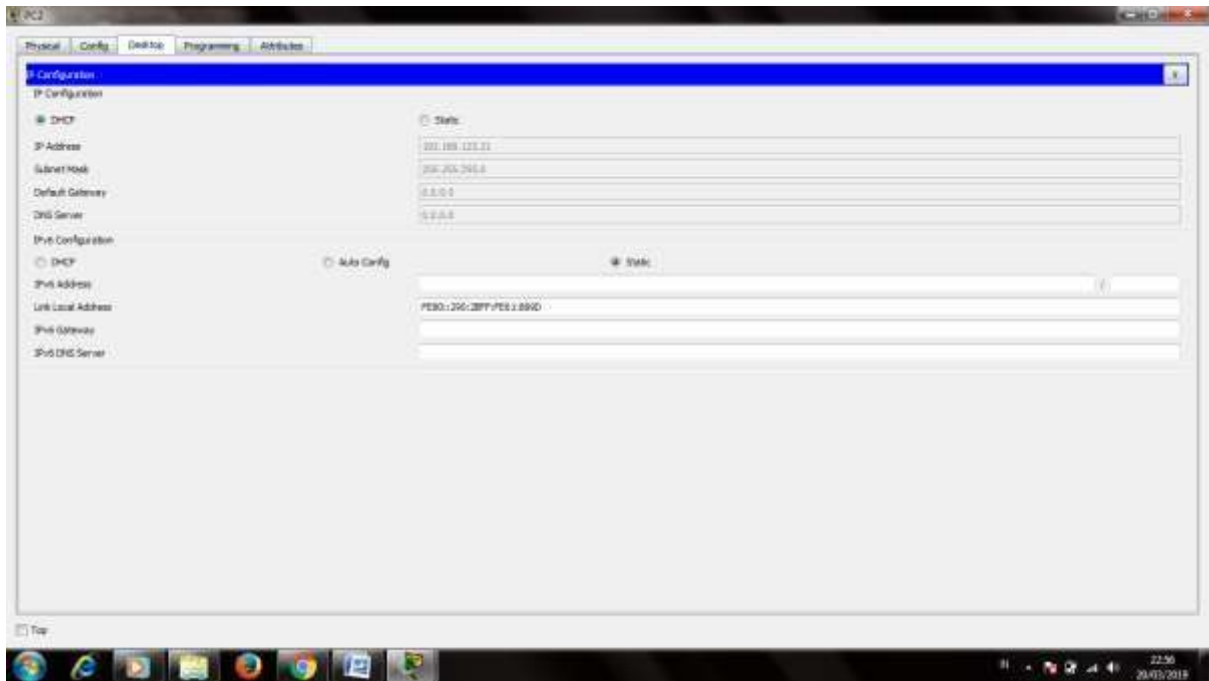
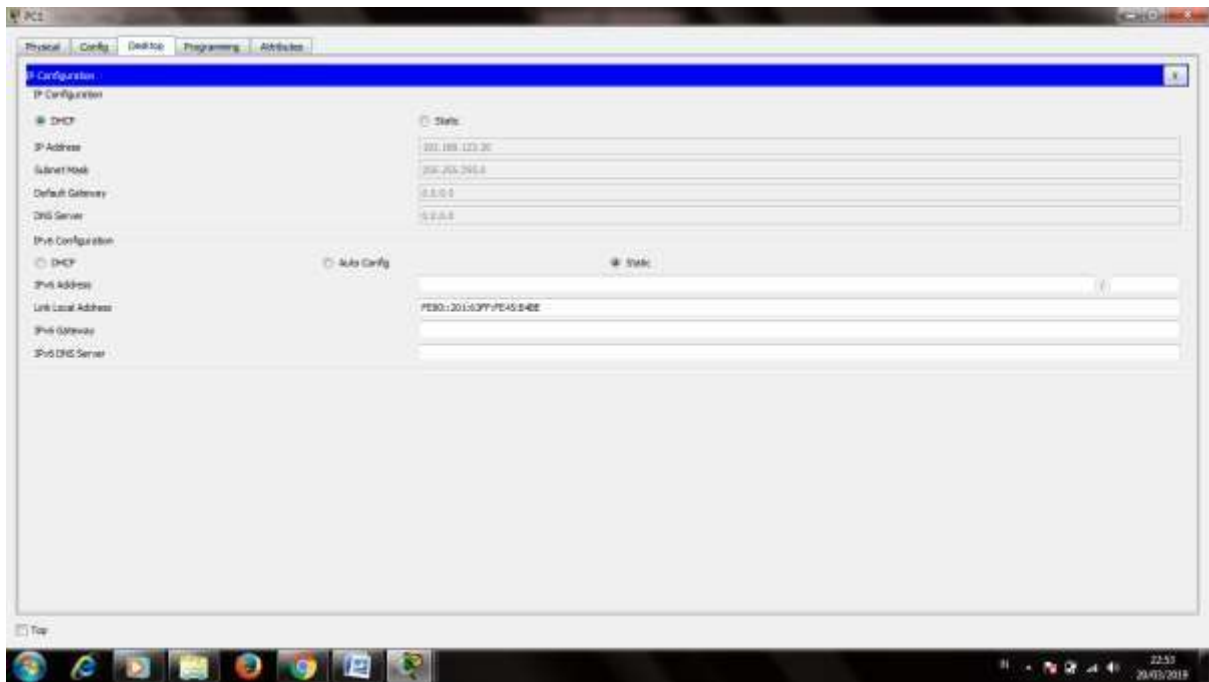
Pada start ip address isikan dengan 192.168.123.19, dan pada maximum number of users=5. Hal ini berarti setiap host yang request IP pada DHCP server akan mendapatkan IP Address mulai dari range 192.168.123.19-192.168.123.23. untuk default gateway dan dns server biarkan kosong untuk contoh ini.

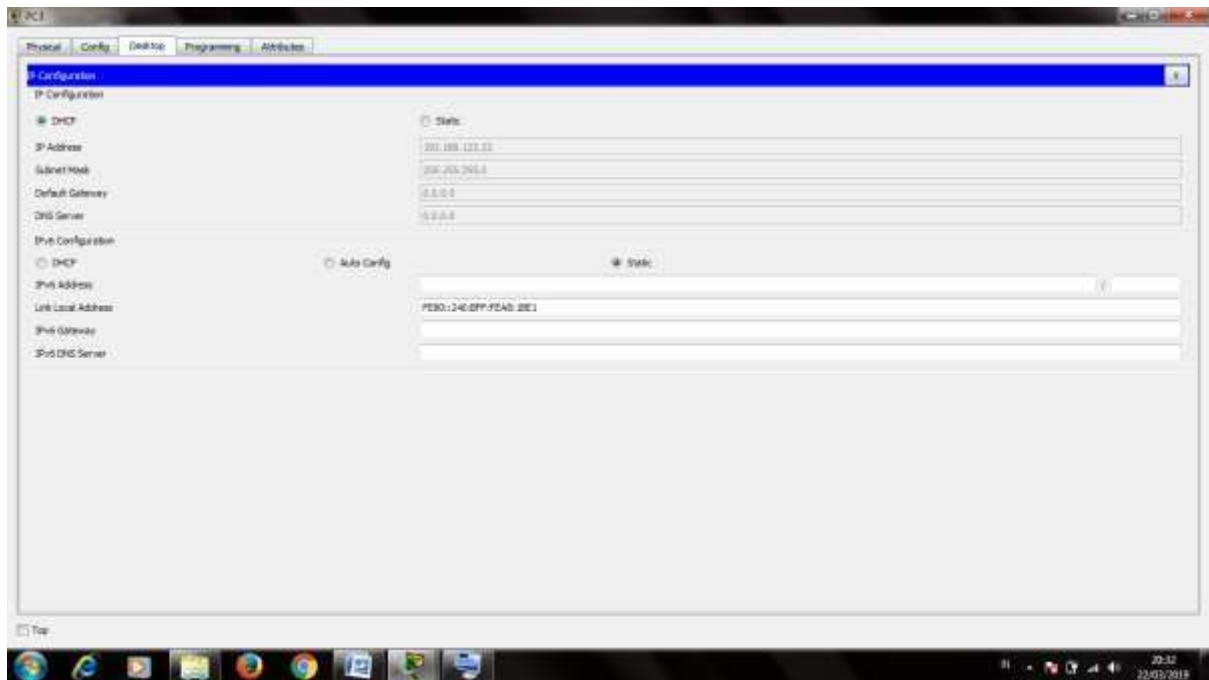
- c. Pada sisi client konfigurasi dilakukan dengan cara sebagai berikut. Double klik pada PC.
Pilih tab desktop, pada menu yang ada, pilih menu IP Configuration.



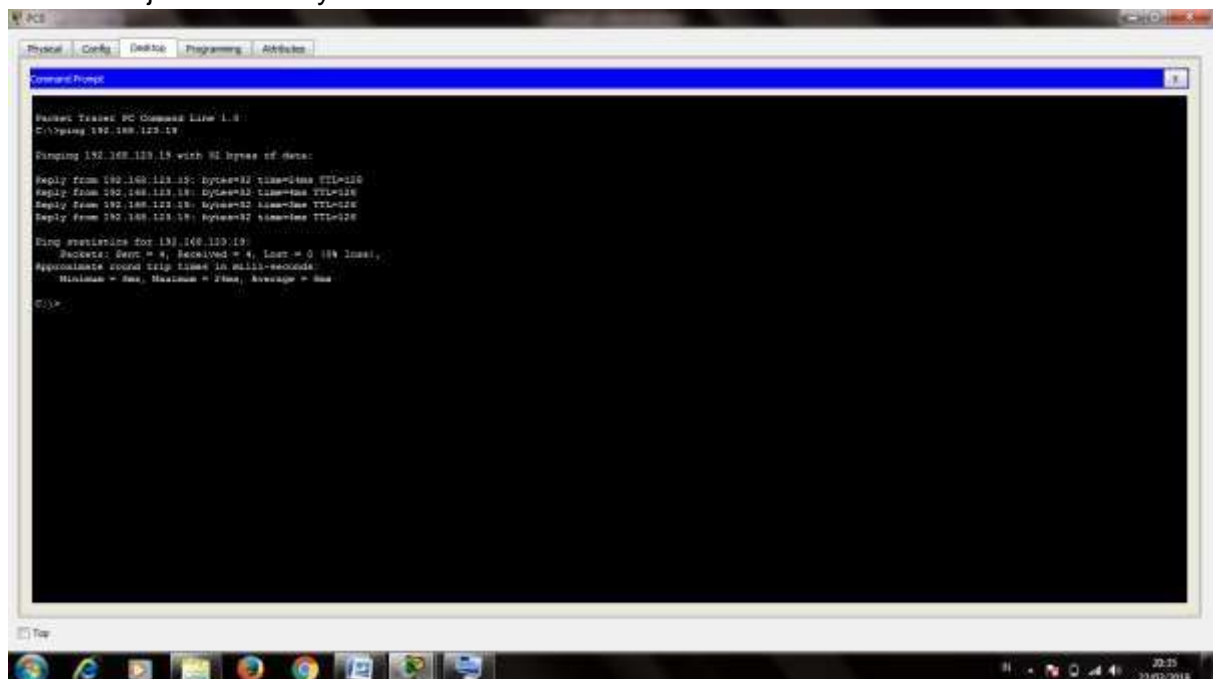
- d. Pastikan pilihan radio button pada pilihan DHCP. Seperti gambar di bawah ini.
- e. Setelah konfigurasi selesai, silahkan cek IP pada pc tersebut. Hasil akhir bisa dilihat pada gambar di bawah ini.







- f. Setelah selesai konfigurasi semua, ping ke semua pc yang terhubung dengan server DHCP. Tampilkan hasilnya ke asisten untuk dinilai.



PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.22

Pinging 192.168.123.22 with 32 bytes of data:

Reply from 192.168.123.22: bytes=32 time=1ms TTL=128
Reply from 192.168.123.22: bytes=32 time=1ms TTL=128
Reply from 192.168.123.22: bytes=32 time=1ms TTL=128
Reply from 192.168.123.22: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.123.22:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>
```



PC2

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.21

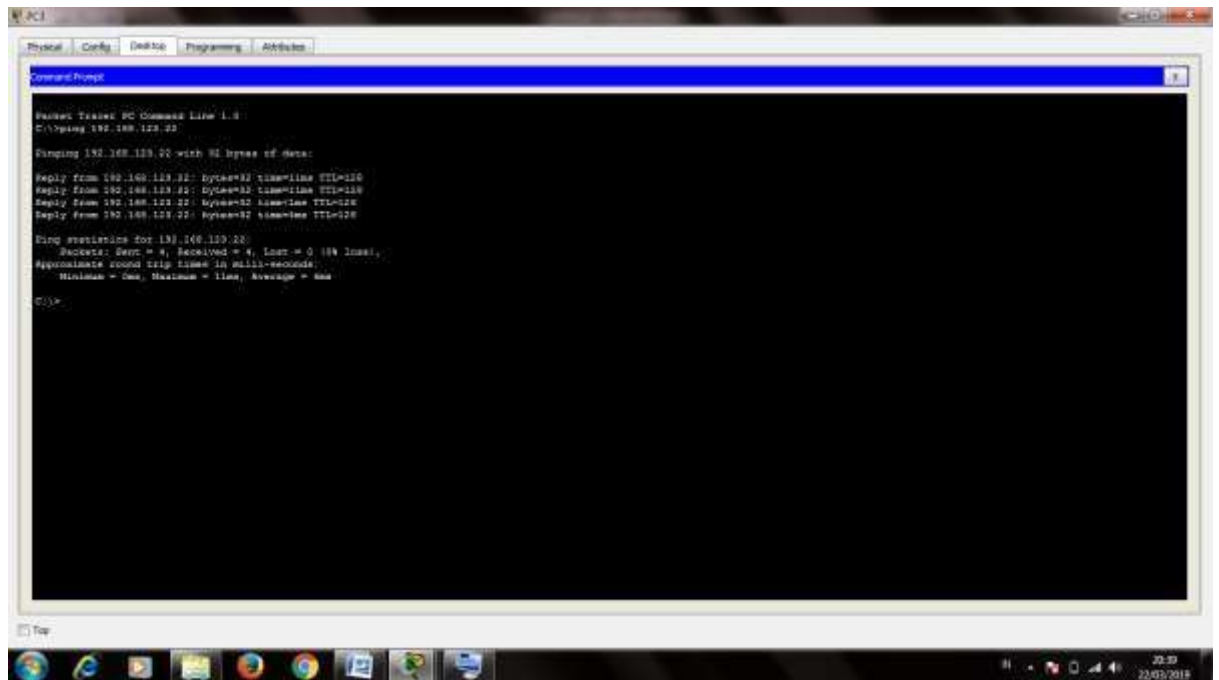
Pinging 192.168.123.21 with 32 bytes of data:

Reply from 192.168.123.21: bytes=32 time=1ms TTL=128
Reply from 192.168.123.21: bytes=32 time=1ms TTL=128
Reply from 192.168.123.21: bytes=32 time=1ms TTL=128
Reply from 192.168.123.21: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.123.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 1ms

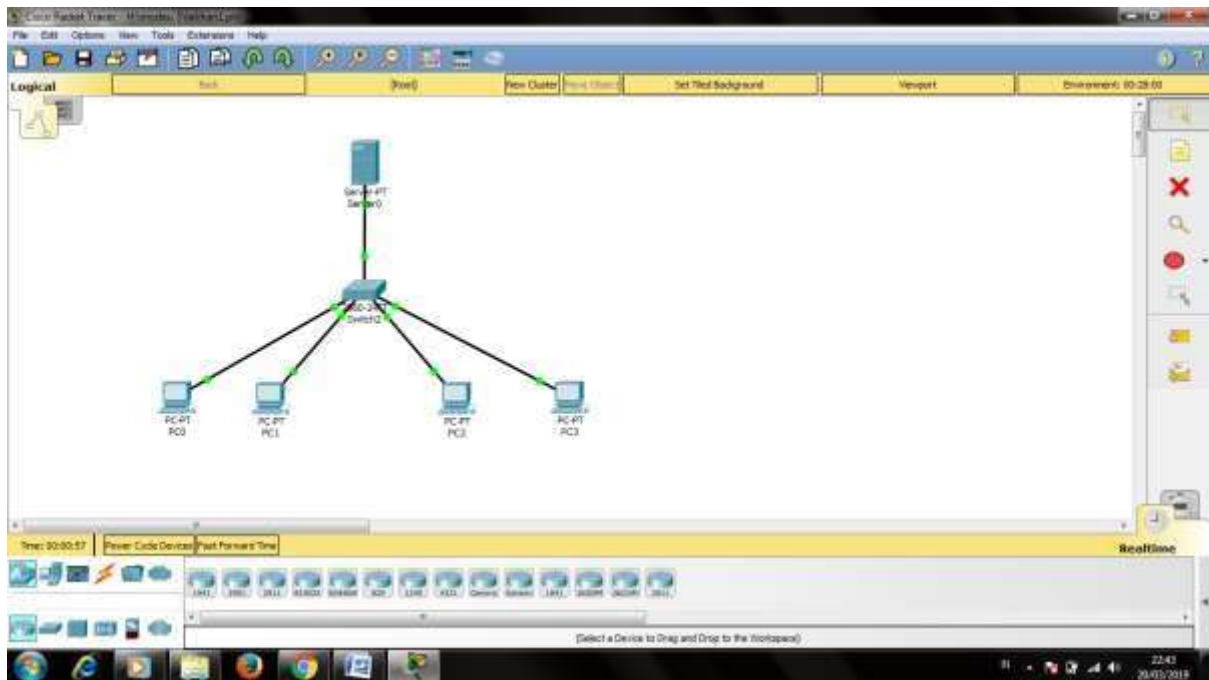
C:\>
```



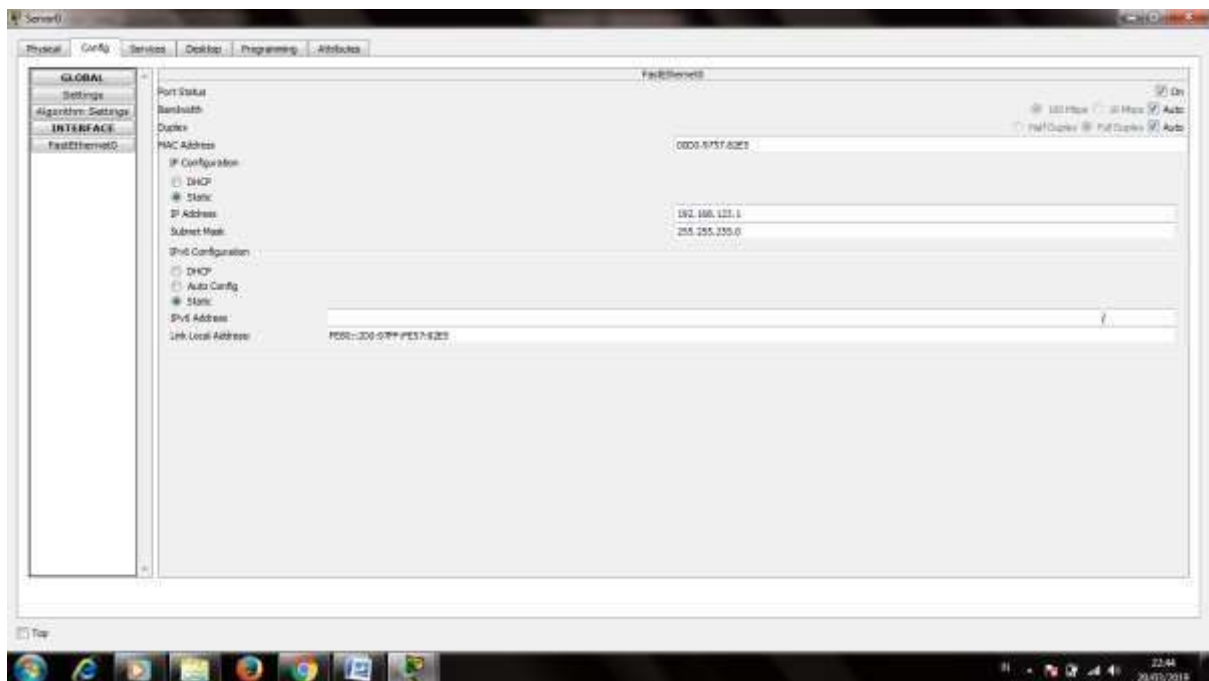


2. PRAKTIKUM 2 MEMBUAT WEB SERVER

Persiapan simulasi server HTTP dalam contoh ini adalah dengan menggunakan 1 buah workstation dan server yang terhubung langsung dengan kabel –tipe cross—sehingga terlihat gambar 11 di bawah ini.



- Lakukan konfigurasi IP address pada PC0 seperti yang telah di jelaskan di bagian sebelumnya.
- Lakukan konfigurasi IP address pada Server0. Langkah-langkah mengkonfigurasi IP address untuk tipe Server-PT pada Cisco Packet Tracker sama dengan workstationnya (PC-PT).



Services

Physical Config Services Desktop Programming Attributes

Services

Interface: **FastEthernet0/0** Service: ☒ ON ☐ OFF

Pool Name: **serverPool**

Default Gateway: **0.0.0.0**

DNS Server: **0.0.0.0**

Start IP Address: **192** **168** **123** **39**

Subnet Mask: **255** **255** **255** **0**

Maximum Number of Users: **5**

TFTP Server: **0.0.0.0**

WLC Address: **0.0.0.0**

Add **Save** **Remove**

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123.39	255.255.255.0	5	0.0.0.0	0.0.0.0

Top

Services

Physical Config Services Desktop Programming Attributes

Services

Interface: **FastEthernet0/0** Service: ☒ ON ☐ OFF

Pool Name: **serverPool**

Default Gateway: **0.0.0.0**

DNS Server: **0.0.0.0**

Start IP Address: **192** **168** **123** **39**

Subnet Mask: **255** **255** **255** **0**

Maximum Number of Users: **5**

TFTP Server: **0.0.0.0**

WLC Address: **0.0.0.0**

Add **Save** **Remove**

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123.39	255.255.255.0	5	0.0.0.0	0.0.0.0

Top

PC0

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.20

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IPv6 Configuration

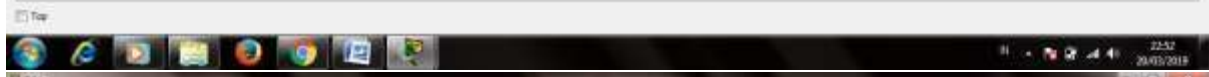
☐ DHCP ☒ Auto Config ☐ Static

IPv6 Address:

Link Local Address: FE80::20C:1FFF:FE7A:3D3A

IPv6 Gateway:

IPv6 DNS Server:



PC1

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.20

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IPv6 Configuration

☐ DHCP ☒ Auto Config ☐ Static

IPv6 Address:

Link Local Address: FE80::20C:1FFF:FE45:54EE

IPv6 Gateway:

IPv6 DNS Server:



PC2

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.21

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address:

Link Local Address: FE80::24C:0FF:FE4B:28C1

IPv6 Gateway:

IPv6 DNS Server:



PC1

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.22

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address:

Link Local Address: FE80::24C:0FF:FE4B:28C1

IPv6 Gateway:

IPv6 DNS Server:



```
PCB
Physical Config Desktop Programming Attributes
Command Prompt

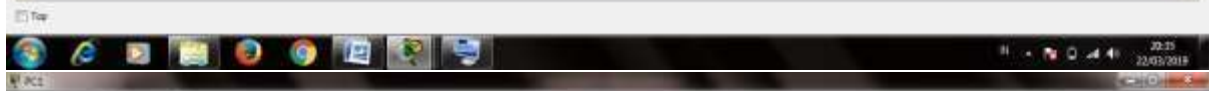
Packet Tracer PC Command Line 1.3
C:\>ping 192.168.123.19

Pinging 192.168.123.19 with 32 bytes of data:

Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.123.19:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>
```



```
PC1
Physical Config Desktop Programming Attributes
Command Prompt

Packet Tracer PC Command Line 1.3
C:\>ping 192.168.123.23

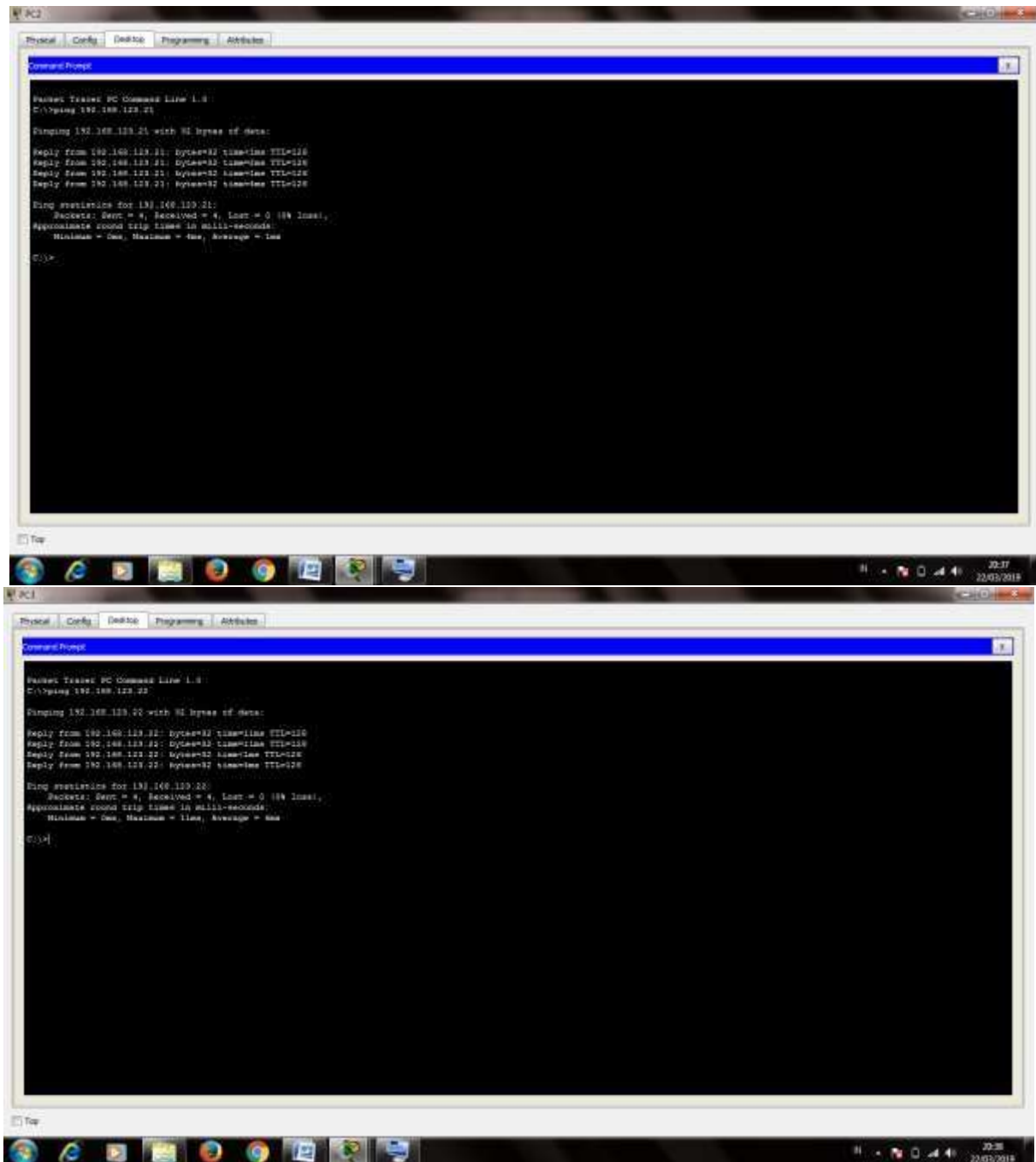
Pinging 192.168.123.23 with 32 bytes of data:

Reply from 192.168.123.23: bytes=32 time=1ms TTL=128
Reply from 192.168.123.23: bytes=32 time=1ms TTL=128
Reply from 192.168.123.23: bytes=32 time=1ms TTL=128
Reply from 192.168.123.23: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.123.23:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>
```

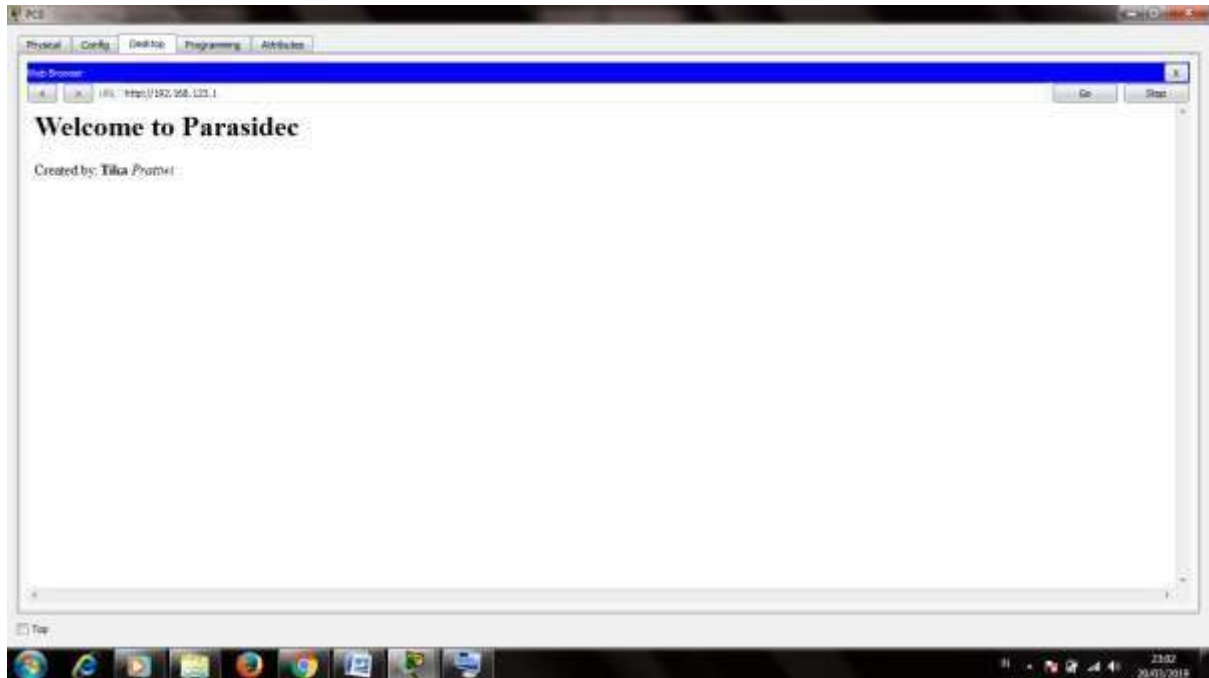




- c. Double-klik Server0 sehingga jendela properti Server0 muncul. Pindahkan ke tab Config.

Pada menu kiri bagian Services, pilih HTTP. Pastikan radio button service HTTP pada pilihan On. Anda juga bisa mengubah halaman homepage Server0, dengan cara mengubah script HTML yang ada sesuka anda. Ilustrasi konfigurasi bisa dilihat di gambar di bawah ini.

Double-klik PC0 sehingga muncul jendela properties PC0. Pilih tab Dekstop. Pada daftar menu, pilih Web Browser. Ketika jendela web browser muncul, ketikkan IP address Server0/Server HTTP(192.186.123.1) di field URL. Sesaat setelah itu akan dihasilkan tampilan halaman web pada Server0 di web browser PC0. Gambar 13 memperlihatkan hasil akhirnya.

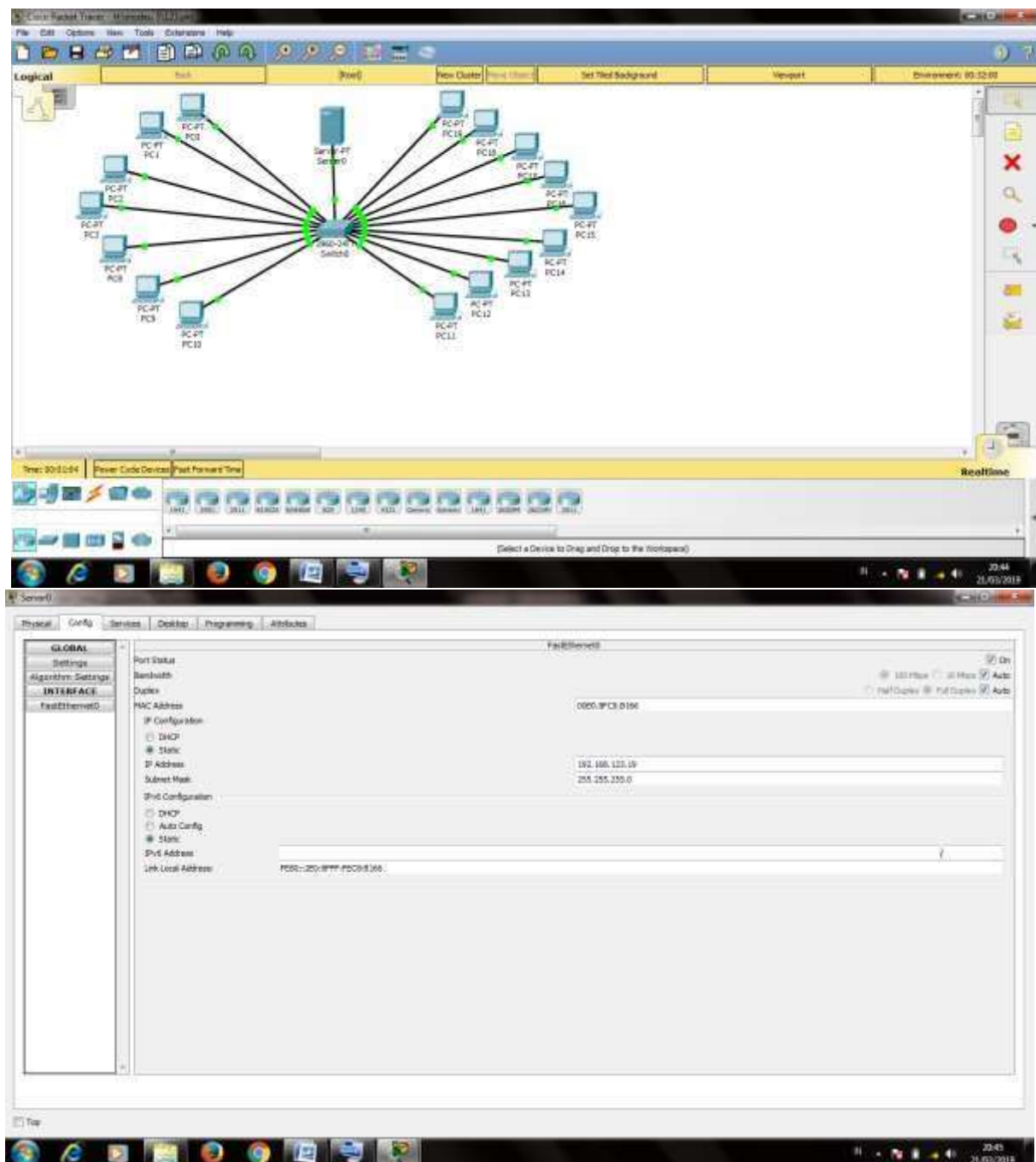


E. Tugas

1. Buatlah dhelp server packet tracer dengan client terdiri dari 20 pc!

2. Buatlah web server pada packet tracer. Dengan mengubah tampilan pada web tersebut.

- a. Nama
- b. Nim
- c. Alamat
- d. Jurusan
- e. Jenis
- f. Jenis Kelamin



Services Desktop Programming Attributes

SERVICES

HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
User Management

DHCP

Interface: **FastEthernet0** Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address: 192.168.123.1

Subnet Mask: 255.255.252.0

Maximum Number of Users: 25

TFTP Server: 0.0.0.0

VLC Address: 0.0.0.0

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	VLC Address
serverPool	0.0.0.0	0.0.0.0	192.168.123.1	255.255.252.0	25	0.0.0.0	0.0.0.0

Top

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.123.1

Subnet Mask: 255.255.252.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☒ Auto Config ☐ Static

IPv6 Address: FE80::201:5FFF:FE34:5827

Link Local Address: FE80::201:5FFF:FE34:5827

IPv6 Gateway:

IPv6 DNS Server:

Top

PC1

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.10

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IPv6 Configuration

☐ DHCP ☒ Auto Config ☐ Static

IPv6 Address:

Link Local Address: FE80::202:0FF:FE14:5348

IPv6 Gateway:

IPv6 DNS Server:



PC2

Physical Config Desktop Programming Attributes

Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.1.9

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 192.168.1.1

IPv6 Configuration

☐ DHCP ☒ Auto Config ☐ Static

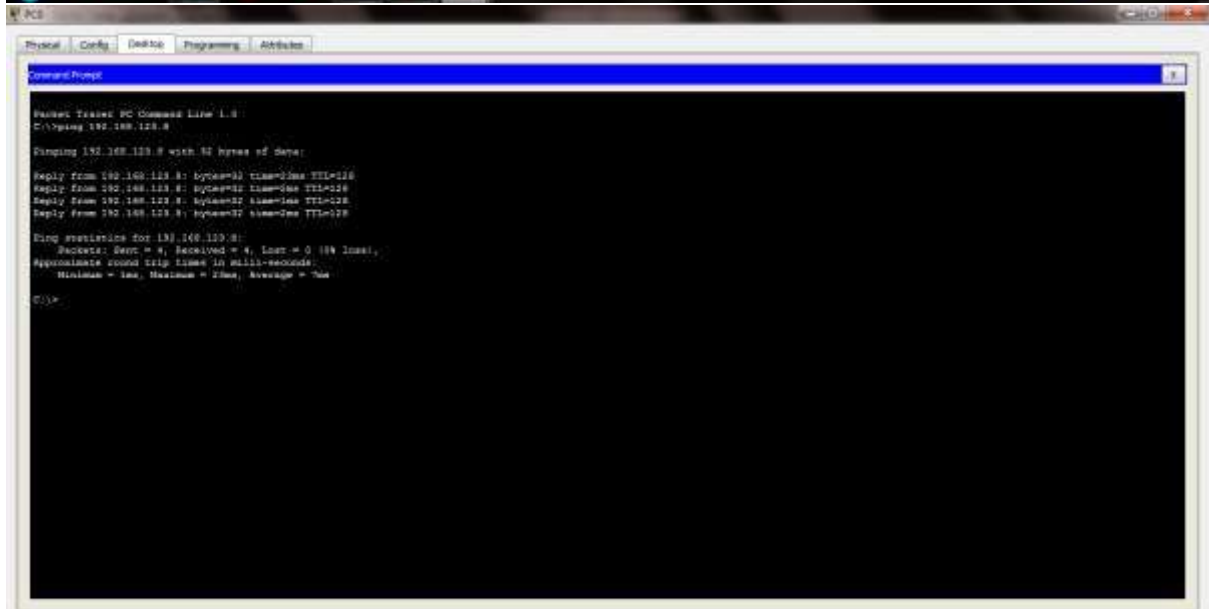
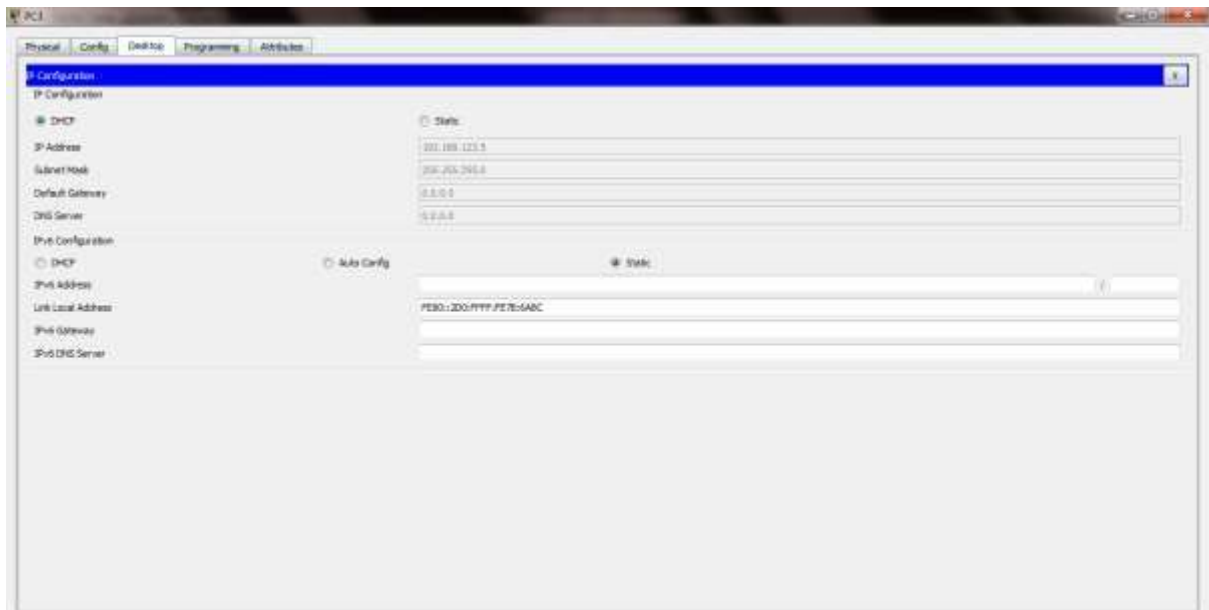
IPv6 Address:

Link Local Address: FE80::246:0FF:FE11:C2D2

IPv6 Gateway:

IPv6 DNS Server:





```
PC1
Physical Config Desktop Programming Attributes
Command Prompt

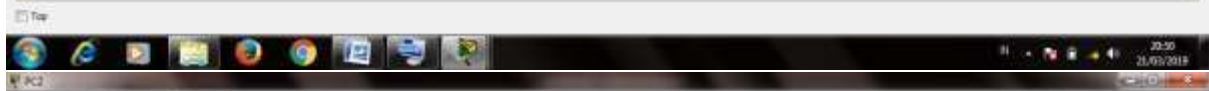
Packet Tracer PC Command Line 1.3
C:\>ping 192.168.123.10

Pinging 192.168.123.10 with 32 bytes of data:

Reply from 192.168.123.10: bytes=32 time=10ms TTL=128
Reply from 192.168.123.10: bytes=32 time=10ms TTL=128
Reply from 192.168.123.10: bytes=32 time=10ms TTL=128
Reply from 192.168.123.10: bytes=32 time=10ms TTL=128

Ping statistics for 192.168.123.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 10ms, Maximum = 20ms, Average = 10ms

C:\>
```



```
PC2
Physical Config Desktop Programming Attributes
Command Prompt

Packet Tracer PC Command Line 1.3
C:\>ping 192.168.123.7

Pinging 192.168.123.7 with 32 bytes of data:

Reply from 192.168.123.7: bytes=32 time=10ms TTL=128
Reply from 192.168.123.7: bytes=32 time=10ms TTL=128
Reply from 192.168.123.7: bytes=32 time=10ms TTL=128
Reply from 192.168.123.7: bytes=32 time=10ms TTL=128

Ping statistics for 192.168.123.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 10ms, Maximum = 20ms, Average = 10ms

C:\>
```



