Nama : Anang Prasetyo

NIM : L200180063

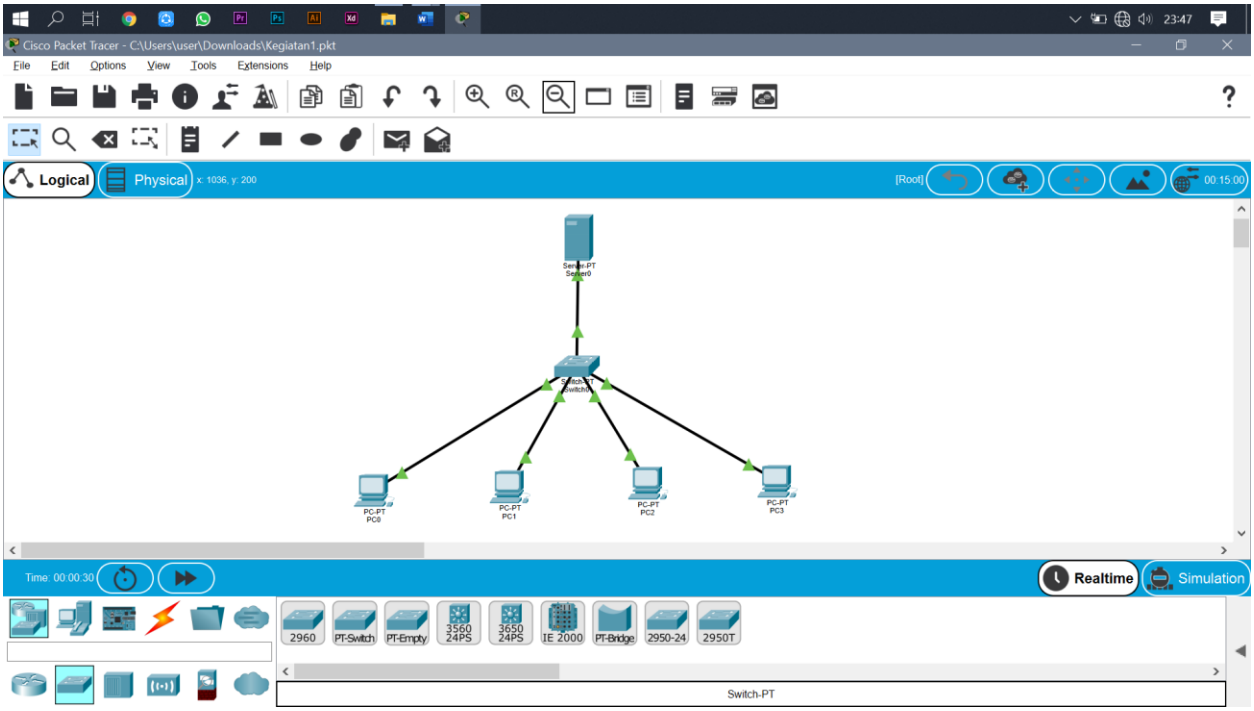
Kelas : B

# MODUL 5

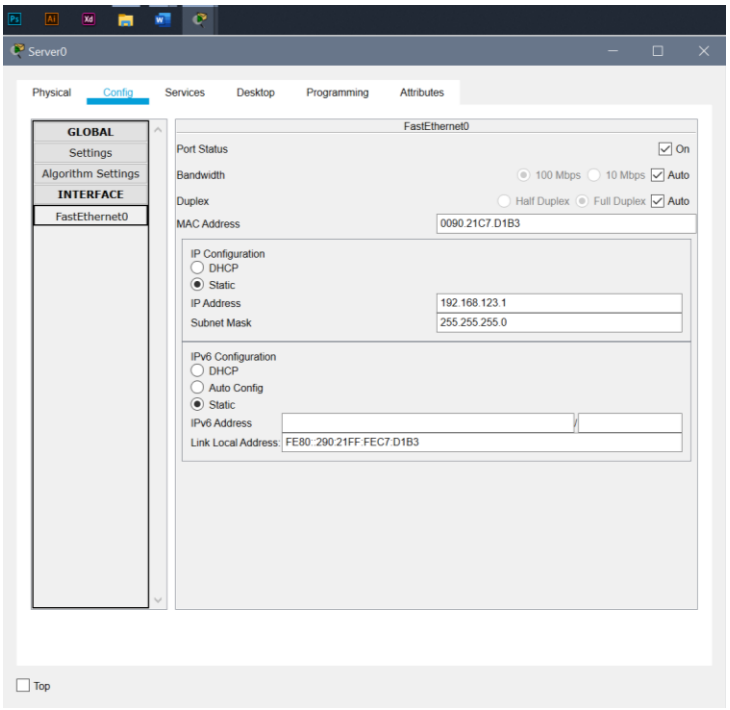
## Kegiatan Praktikum

1. **Praktikum 1 membuat DHCP Server**

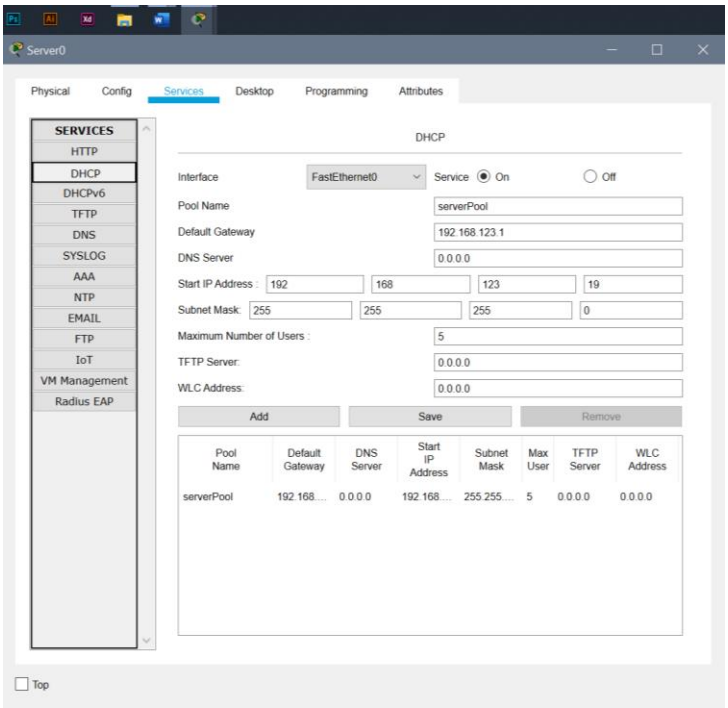
   Menyusun komponen-komponen pada rancangan, yaitu terdiri dari 1 server, 1 switch, dan 4 PC



Double klik Server0, memilih config. Pada menu Interface, pilih Fast-Ethernet. Pada bagian IP Configuration, isikan dengan IP Address server.

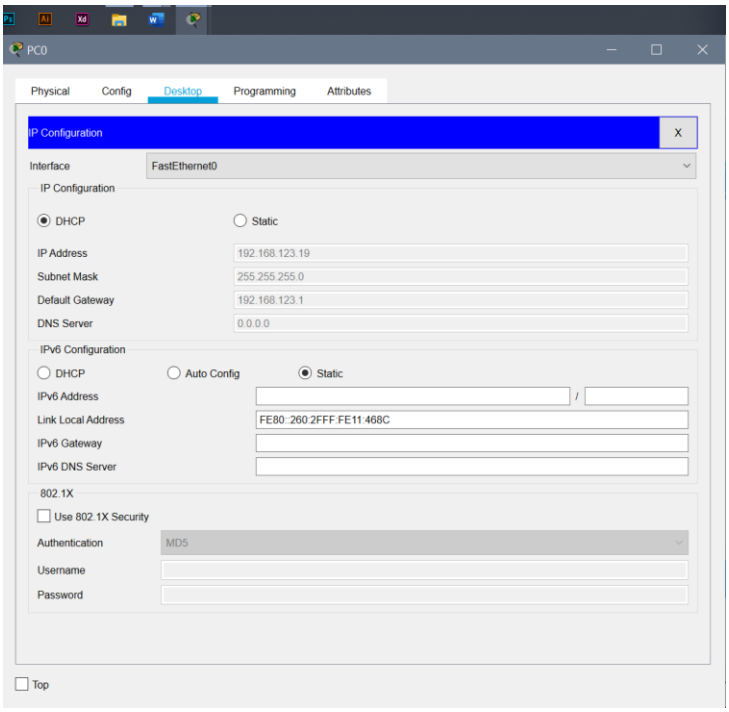



Untuk konfigurasi DHCP Server pada jendela properties server 0 pada services, DHCP. Pastikan service DHCP On. Isikan blok IP Address yang akan diberikan ke PC client. Pada start IP Address isikan dengan 192.168.123.19 dan pada maximum number of users = 5.

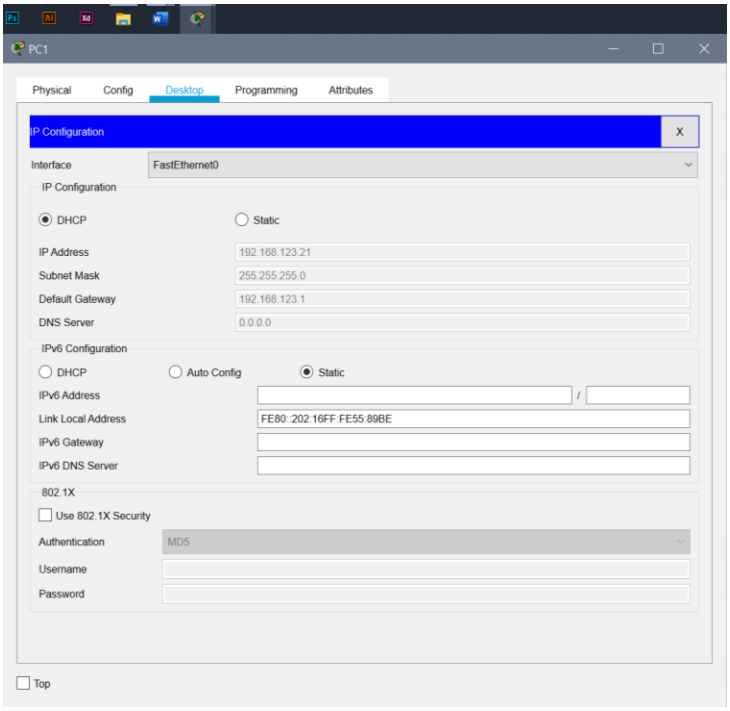


Pada sisi client konfigurasi dilakukan dengan cara double klik pada PC, pilih tab desktop, pada menu yang ada, pilih menu IP Configuration. Pastikan pilihan radio button pada pilihan DHCP. Setelah konfigurasi selesai, silakan cek IP pada PC tersebut.

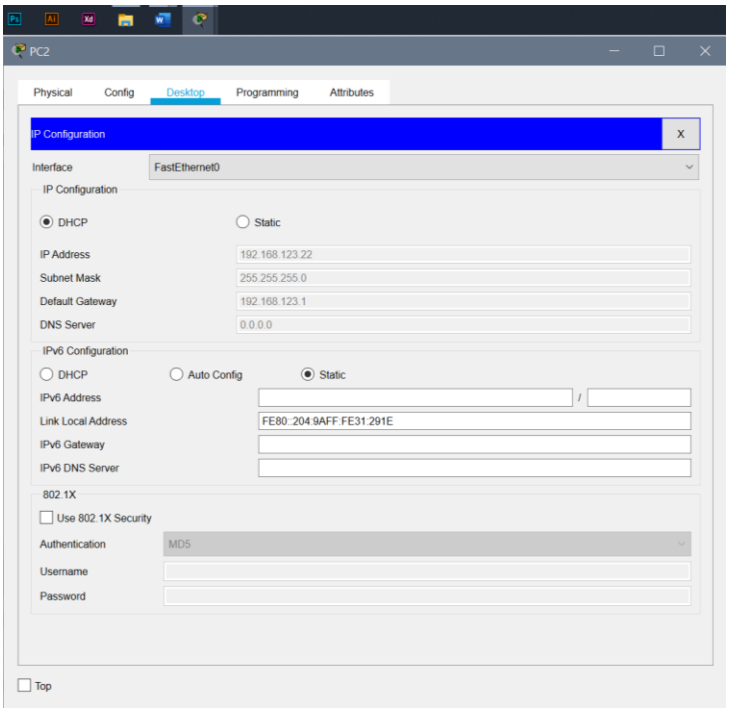
PC0



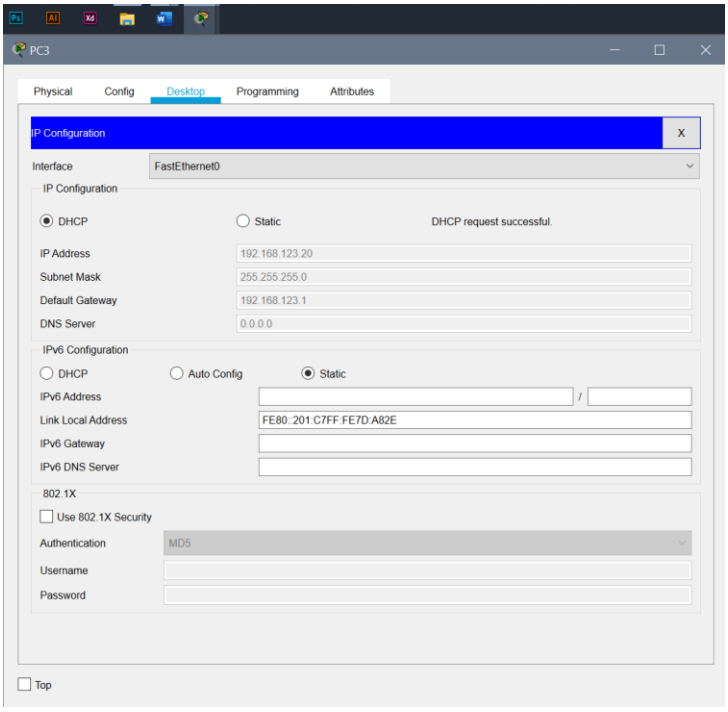
PC1


PC1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.123.21
Subnet Mask
255.255.255.0
Default Gateway
192.168.123.1
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::202:16FF:FE55:89BE
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top

PC2

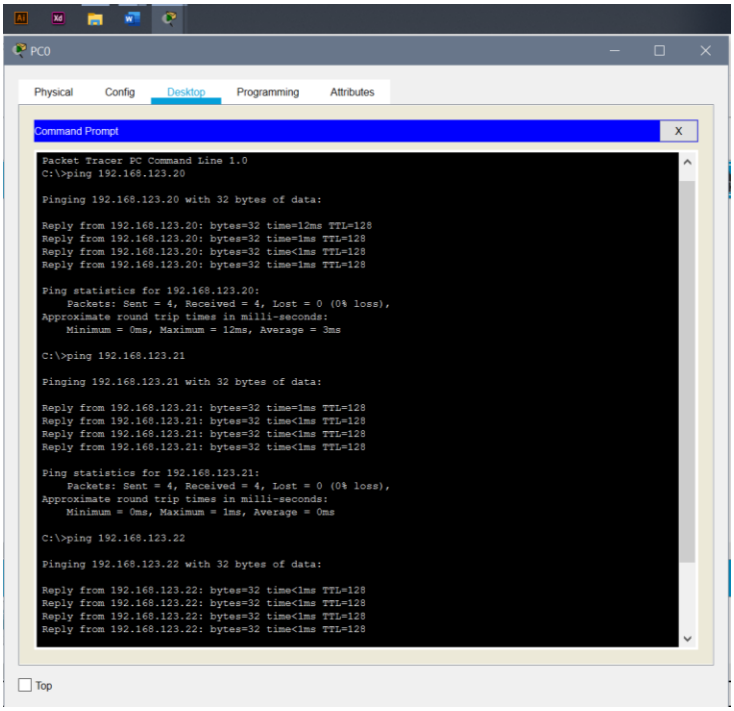

PC2
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.123.22
Subnet Mask
255.255.255.0
Default Gateway
192.168.123.1
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::204:9AFF:FE31:291E
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top

PC3

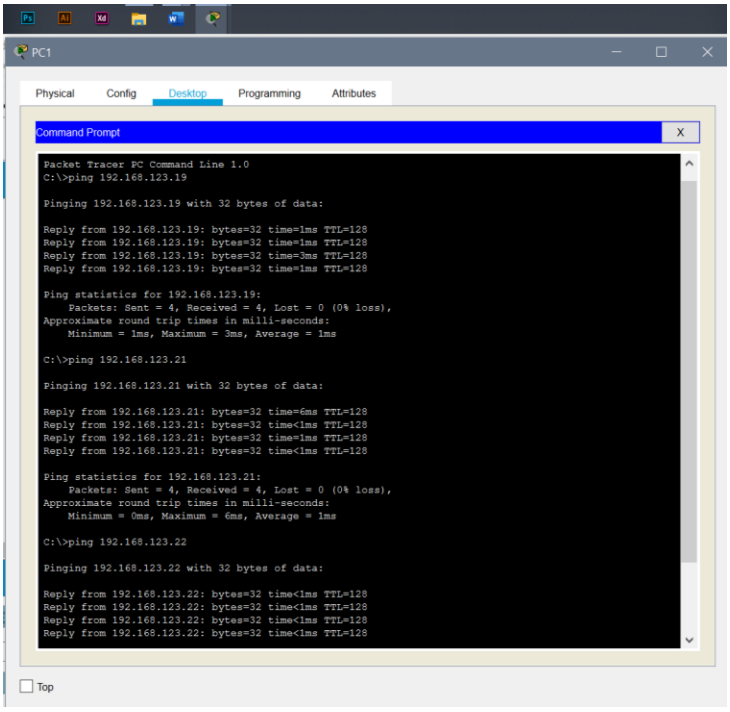



Setelah selesai konfigurasi semua, ping ke semua PC yang terhubung dengan server DHCP

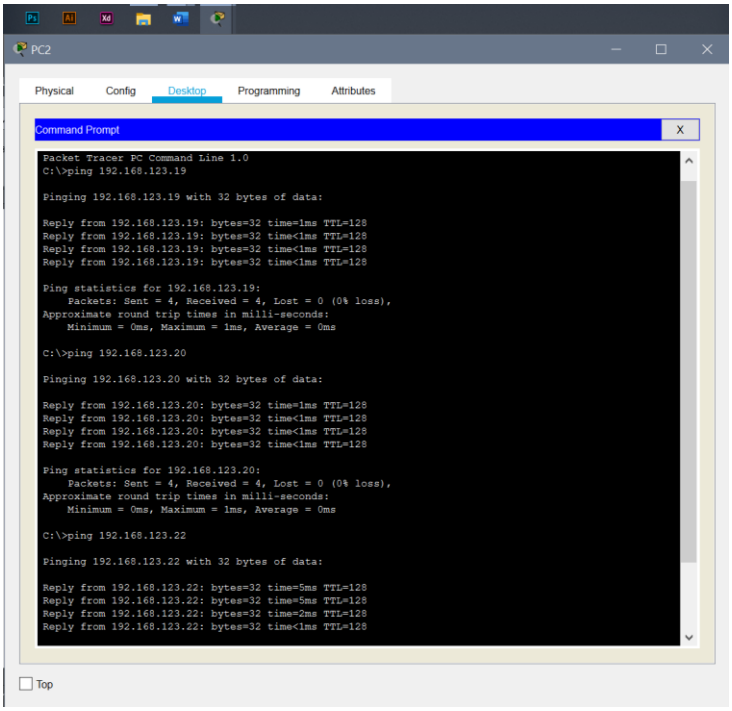
PC0



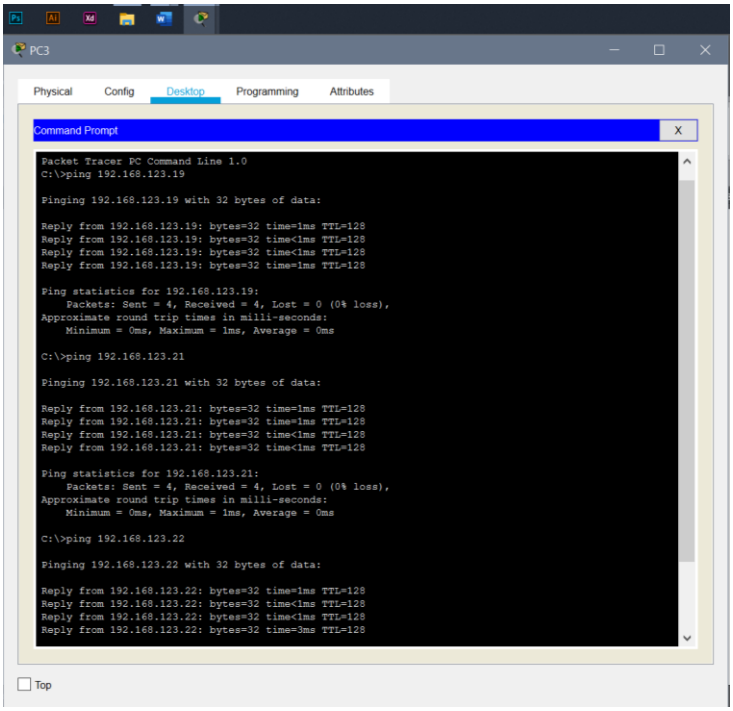
PC1


PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Packet Tracer PC Command Line 1.0
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=3ms 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 = 3ms, Average = 1ms
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=6ms 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 = 6ms, Average = 1ms
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
Top

PC2

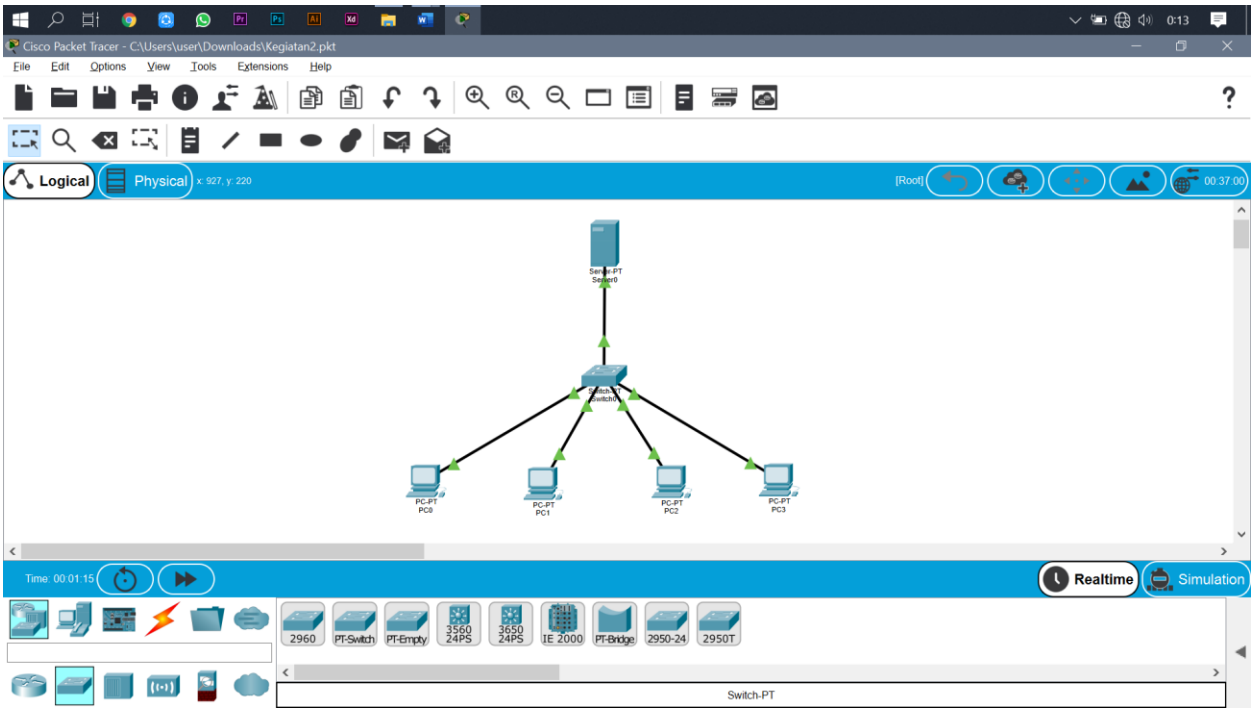

PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.123.19
Pinging 192.168.123.19 with 32 bytes of data:
Reply from 192.168.123.19: bytes=32 time=1ms TTL=128
Reply from 192.168.123.19: bytes=32 time<1ms TTL=128
Reply from 192.168.123.19: 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 = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 192.168.123.20
Pinging 192.168.123.20 with 32 bytes of data:
Reply from 192.168.123.20: bytes=32 time=1ms TTL=128
Reply from 192.168.123.20: bytes=32 time<1ms TTL=128
Reply from 192.168.123.20: bytes=32 time<1ms TTL=128
Reply from 192.168.123.20: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.123.20:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
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=5ms TTL=128
Reply from 192.168.123.22: bytes=32 time=5ms TTL=128
Reply from 192.168.123.22: bytes=32 time=2ms TTL=128
Reply from 192.168.123.22: bytes=32 time<1ms TTL=128
Top

PC3

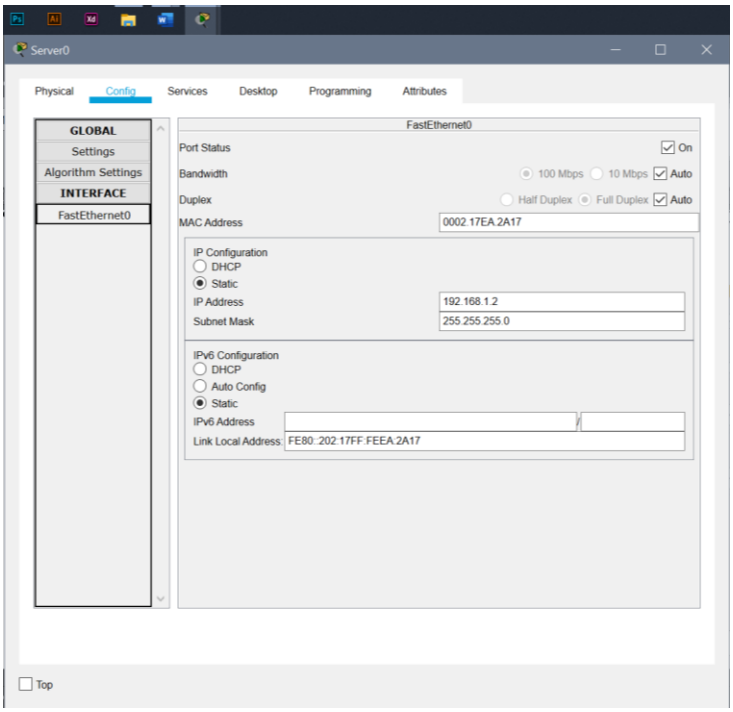



## 2. Praktikum 2 membuat Web Server

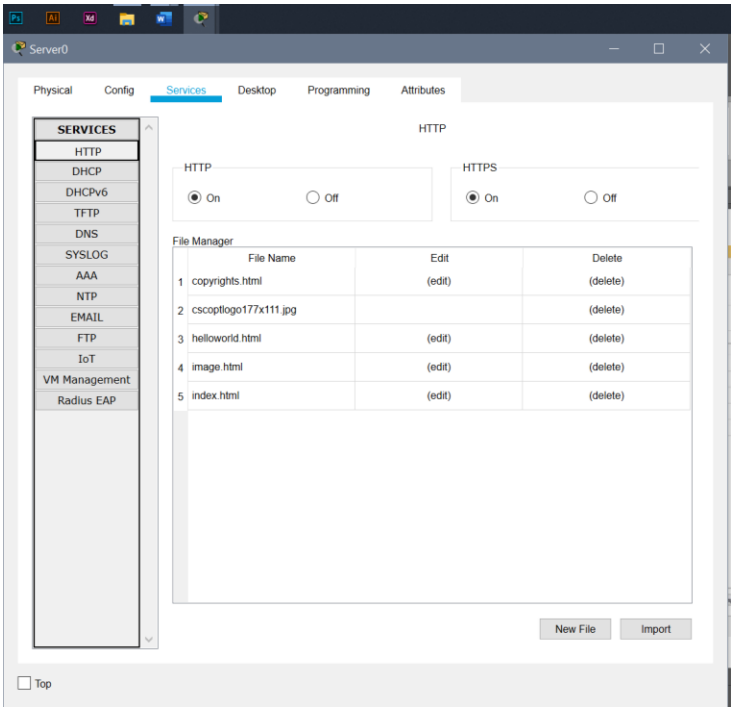
Menyusun komponen-komponen pada rancangan, yaitu terdiri dari 1 server, 1 switch, dan 4 PC



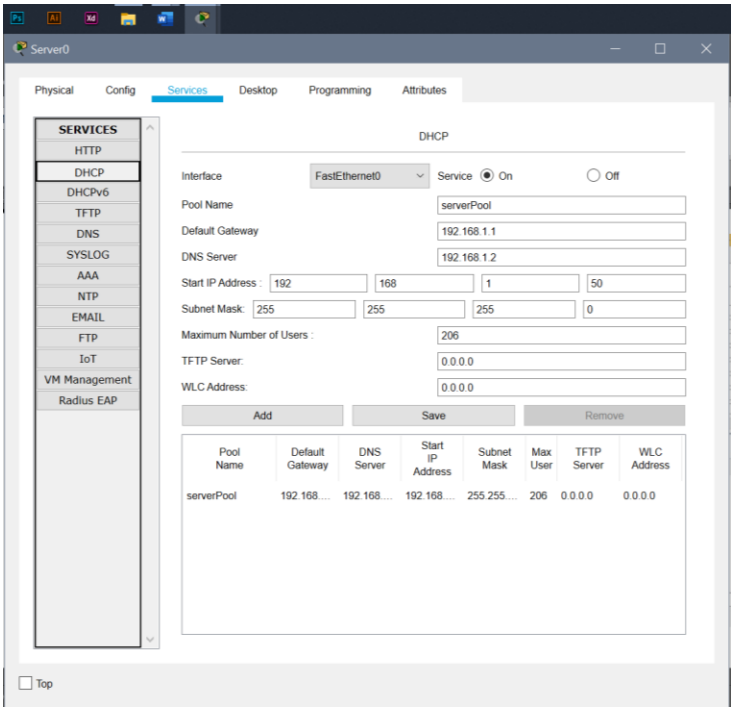
Double klik Server0, memilih config. Pada menu Interface, pilih Fast-Ethernet. Pada bagian IP Configuration, isikan dengan IP Address server.



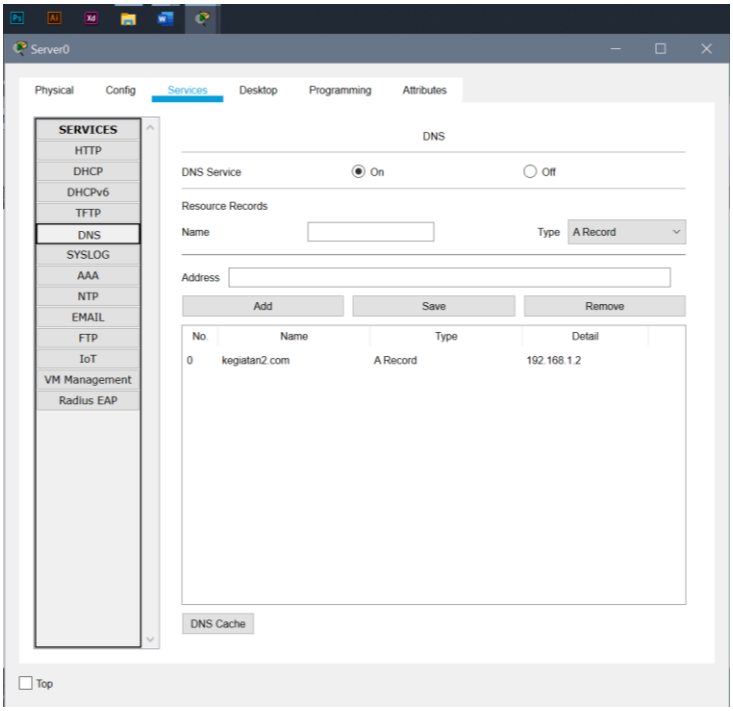

Memastikan radio button service HTTP pada pilihan on



Mengatur pada service DHCP

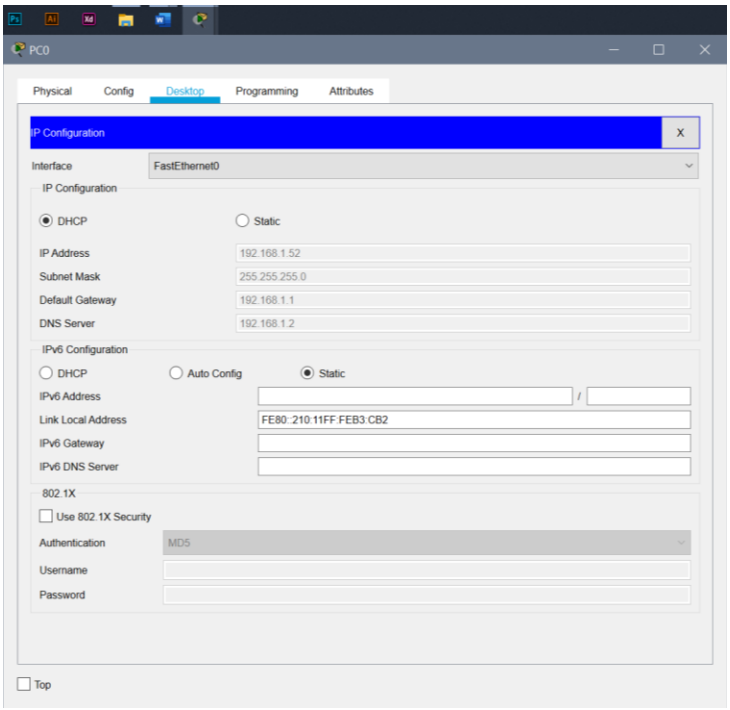



Mengatur pada service DNS

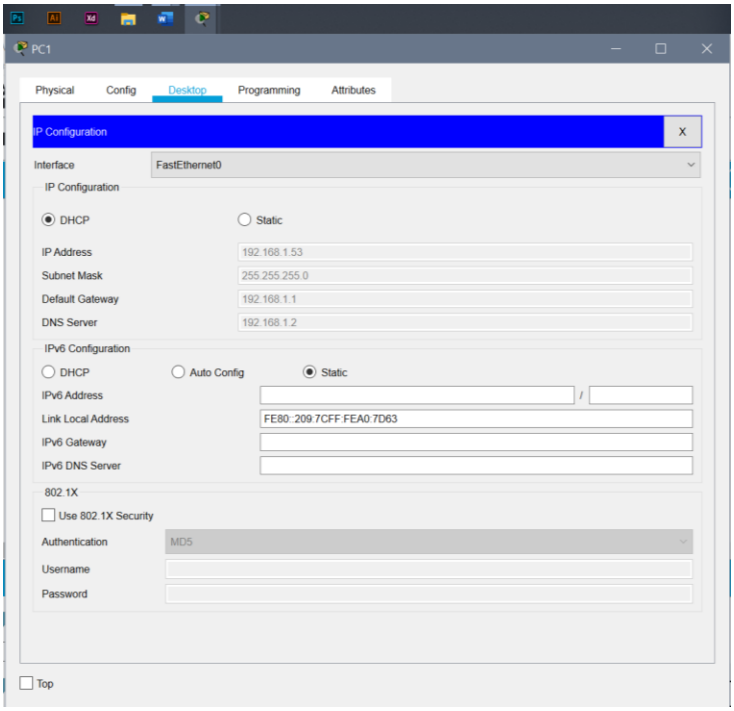


Pada sisi client konfigurasi dilakukan dengan cara double klik pada PC, pilih tab desktop, pada menu yang ada, pilih menu IP Configuration. Pastikan pilihan radio button pada pilihan DHCP. Setelah konfigurasi selesai, silakan cek IP pada PC tersebut.

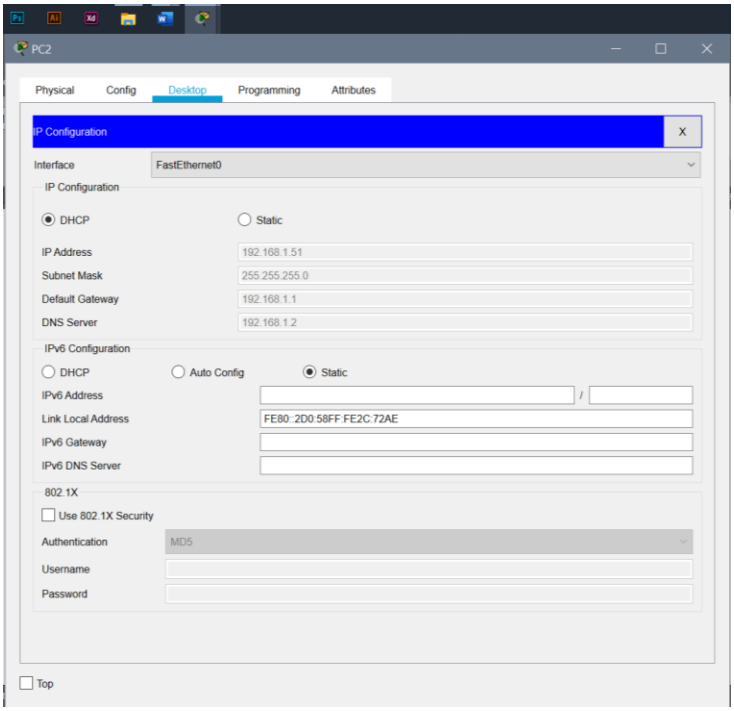
PC0



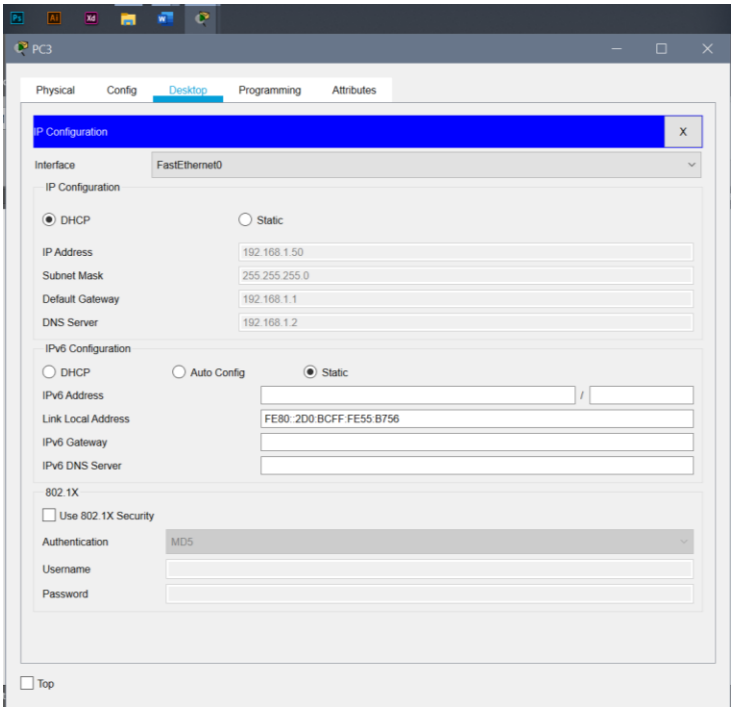
PC1


PC1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.1.53
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.2
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::209:7CFF:FEA0:7D63
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top

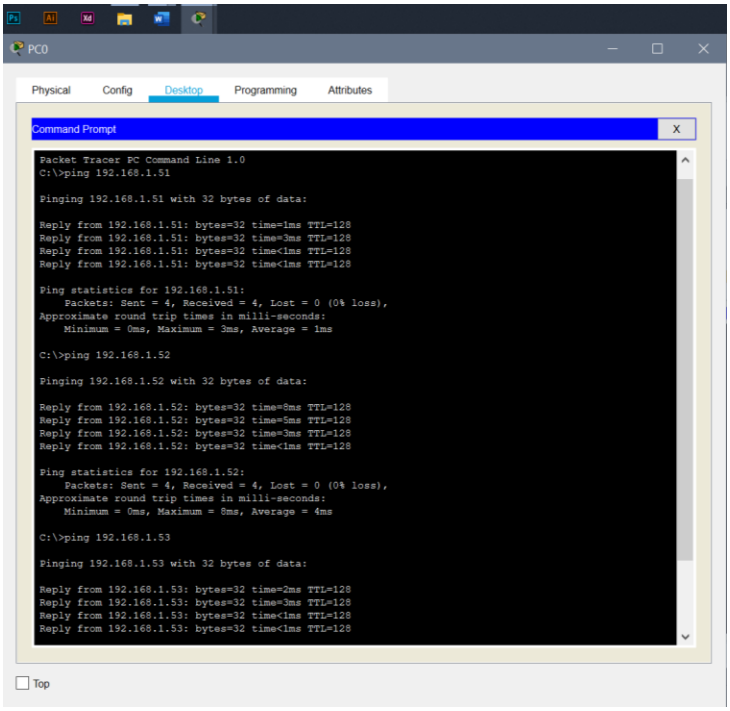
PC2

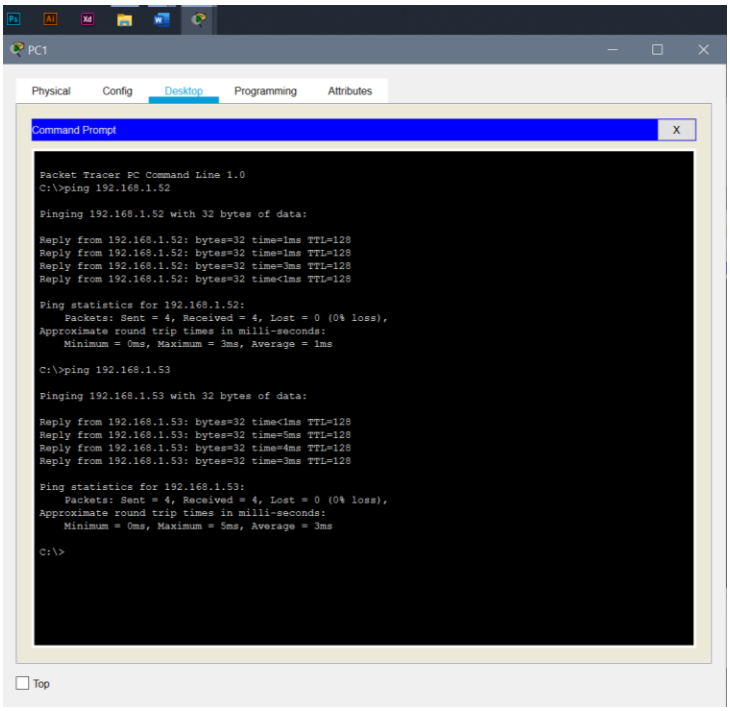

PC2
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IP Address
192.168.1.51
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
192.168.1.2
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::2D0:58FF:FE2C:72AE
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top

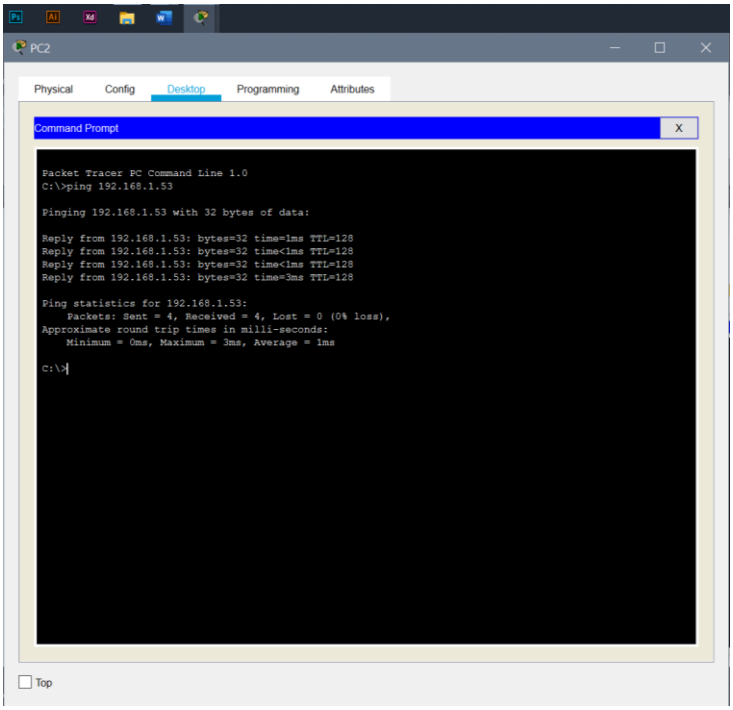
PC3



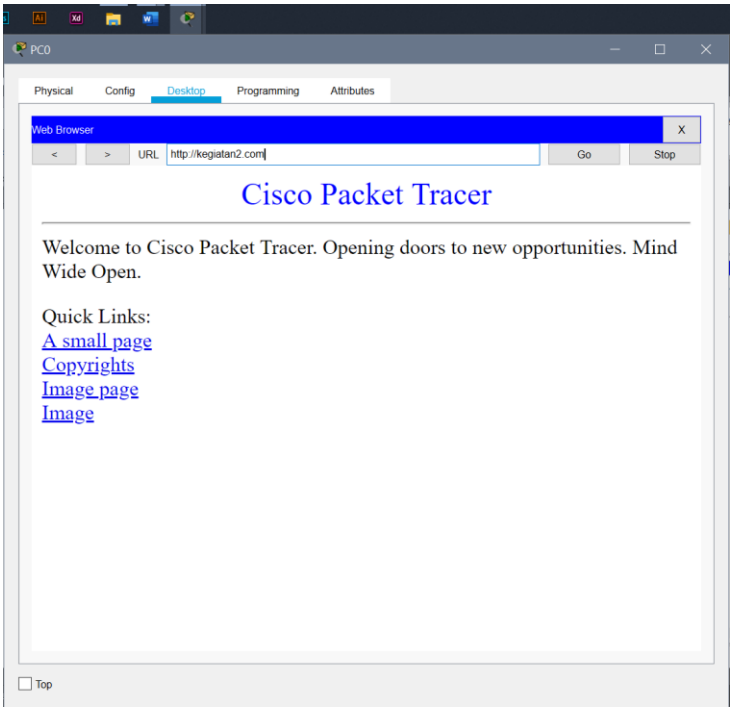

Setelah selesai konfigurasi semua, ping ke semua PC yang terhubung dengan server DHCP




PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.52
Pinging 192.168.1.52 with 32 bytes of data:
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128
Reply from 192.168.1.52: bytes=32 time=1ms TTL=128
Reply from 192.168.1.52: bytes=32 time=3ms TTL=128
Reply from 192.168.1.52: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.52:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
C:\>ping 192.168.1.53
Pinging 192.168.1.53 with 32 bytes of data:
Reply from 192.168.1.53: bytes=32 time<1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=5ms TTL=128
Reply from 192.168.1.53: bytes=32 time=4ms TTL=128
Reply from 192.168.1.53: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.53:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 5ms, Average = 3ms
C:\>
Top


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.53
Pinging 192.168.1.53 with 32 bytes of data:
Reply from 192.168.1.53: bytes=32 time=1ms TTL=128
Reply from 192.168.1.53: bytes=32 time<1ms TTL=128
Reply from 192.168.1.53: bytes=32 time<1ms TTL=128
Reply from 192.168.1.53: bytes=32 time=3ms TTL=128
Ping statistics for 192.168.1.53:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
C:\>
Top

Melakukan browsing HTTP dengan cara double klik PC0 sehingga muncul jendela properties PC0. Pilih tab desktop, pada daftar menu, pilih web browser. Ketika jendela web browser muncul, ketikkan kegiatan2.com Sesaat stelah itu akan dihasilkan halaman web pada Server0 di web browser PC0.

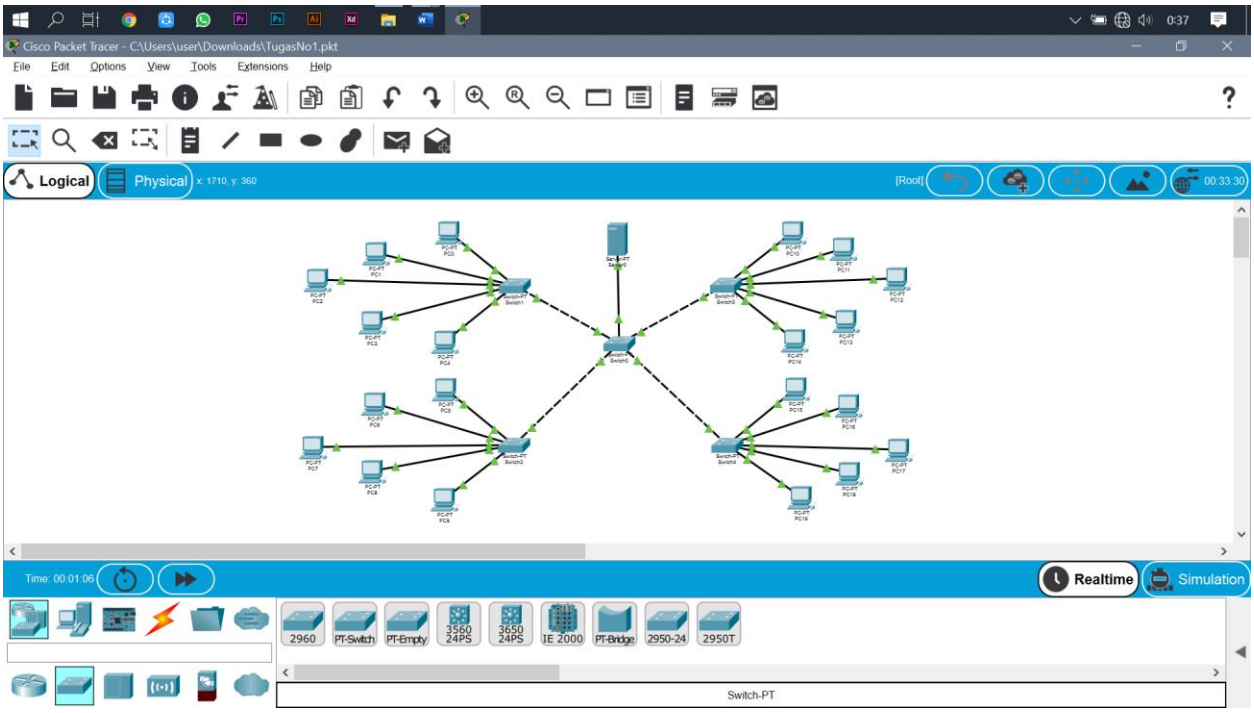


**Tugas**

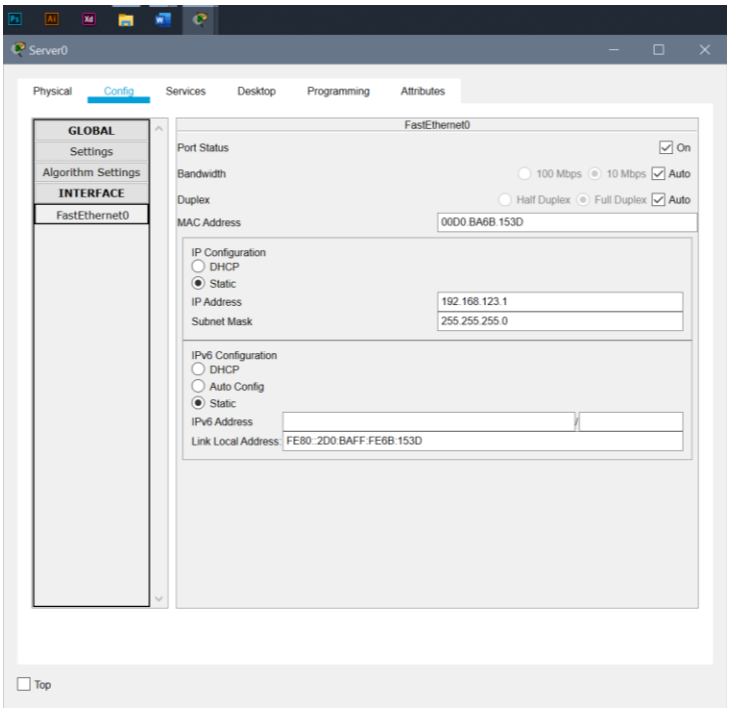
1. Buatlah DHCP Server dengan packet tracer dengan client terdiri dari 20 PC!

Jawab:

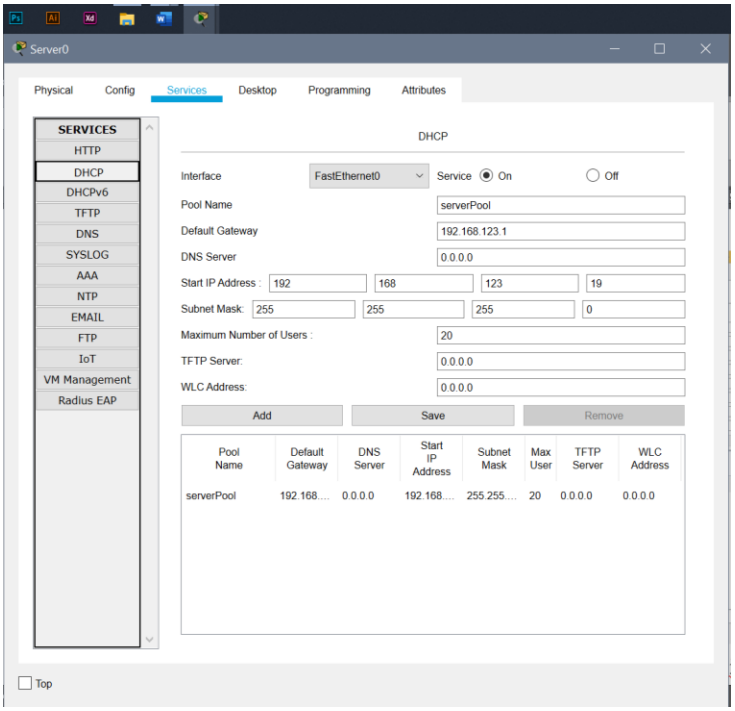
Menyusun komponen – komponen yang terdiri dari 1 server, 5 switch, dan 20 PC



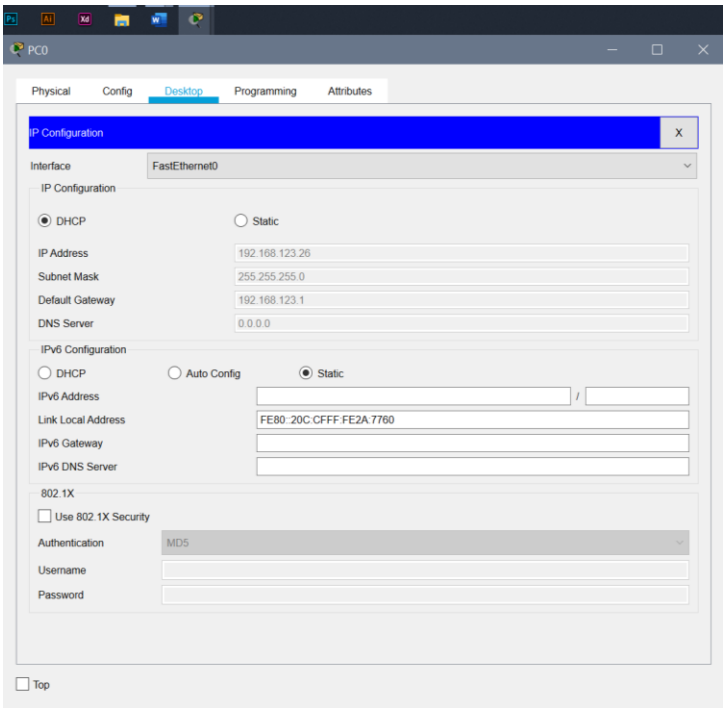
Double klik Server0, memilih config. Pada menu Interface, pilih Fast-Ethernet. Pada bagian IP Configuration, isikan dengan IP Address server.



Untuk konfigurasi DHCP Server pada jendela properties server 0 pada services, DHCP. Pastikan service DHCP On. Isikan blok IP Address yang akan diberikan ke PC client. Pada start IP Address isikan dengan 192.168.123.19 dan pada maximum number of users = 20.

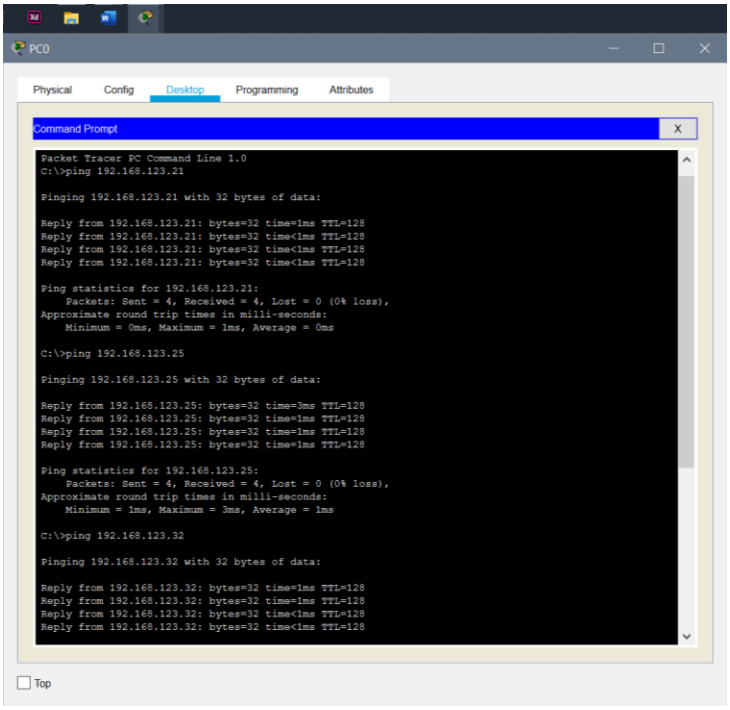



Pada sisi client konfigurasi dilakukan dengan cara double klik pada PC, pilih tab desktop, pada menu yang ada, pilih menu IP Configuration. Pastikan pilihan radio button pada pilihan DHCP. Setelah konfigurasi selesai, silakan cek IP pada PC tersebut.



Setelah selesai konfigurasi semua, ping ke semua PC yang terhubung dengan server

DHCP

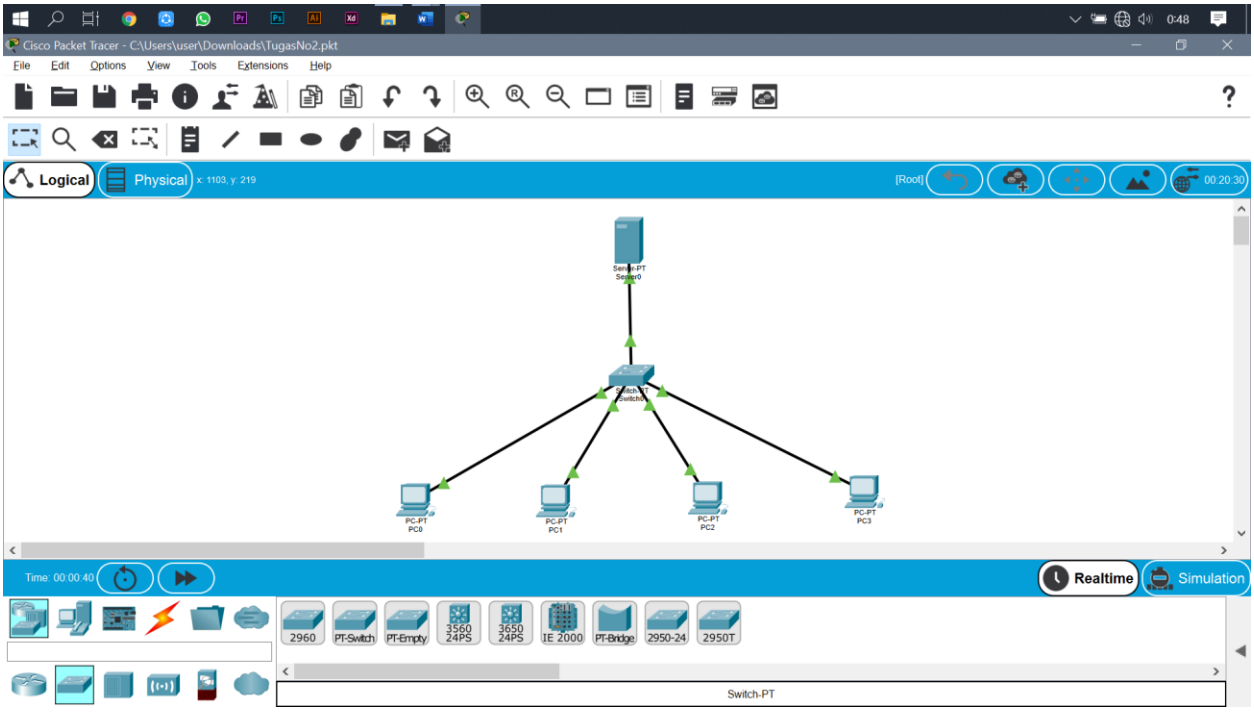



2. Buatlah web server pada packet tracer, dengan mengubah tampilan pada web tersebut dengan isi :

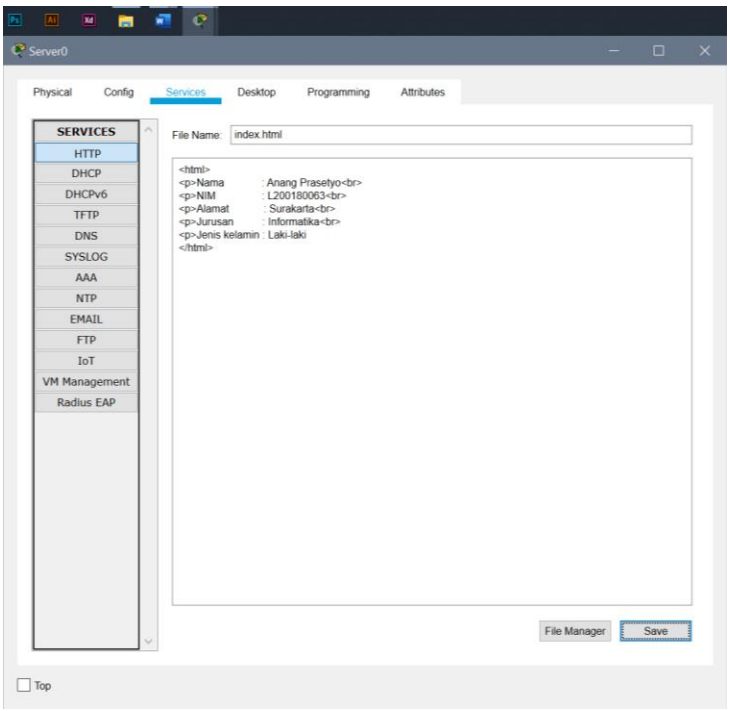
    a. Nama
    b. NIM
    c. Alamat
    d. Jurusan
    e. Jenis Kelamin

Jawab :

Merancang DHCP Server




Mengubah index.html pada HTTP



Berikut adalah screenshot tampilan pada web browser :