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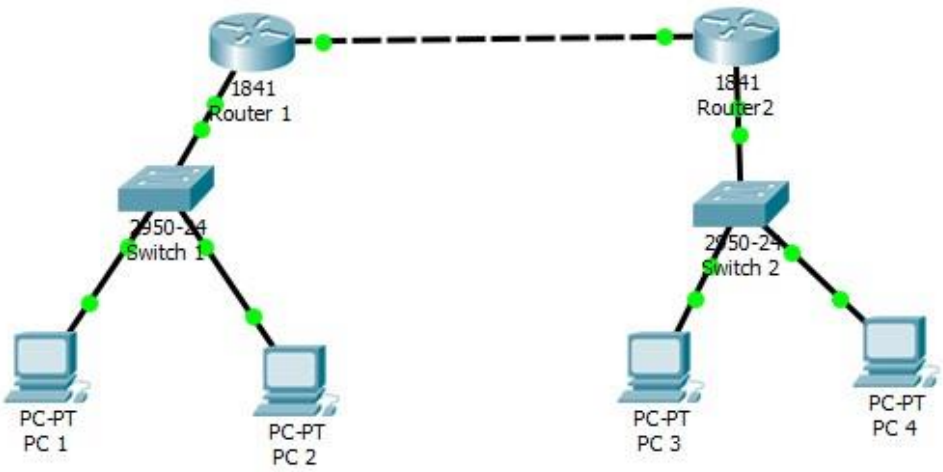
Nim : L200170104

Kelas : C

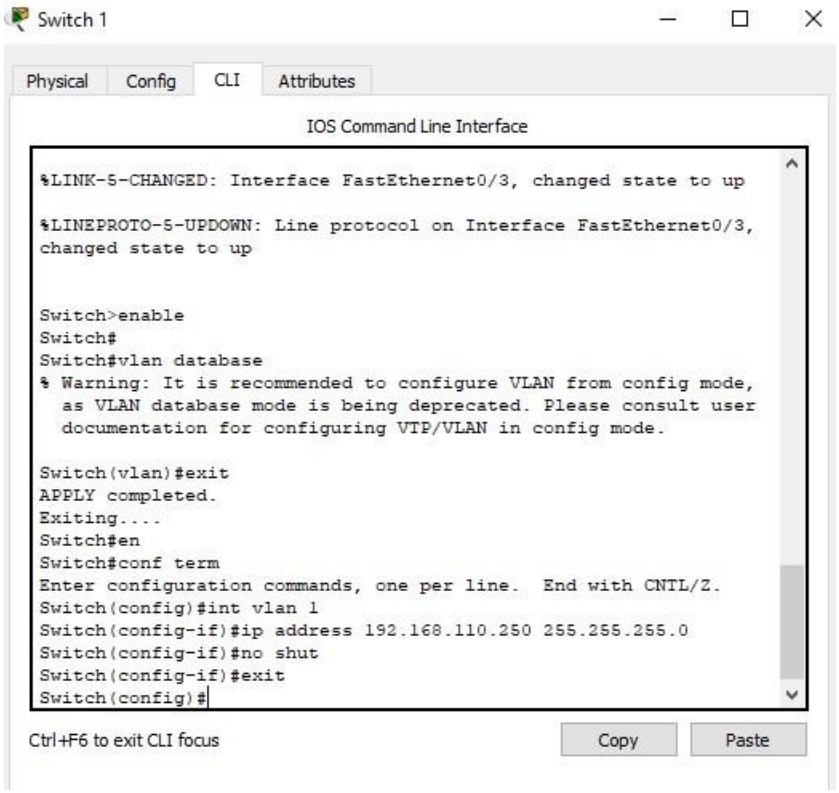
Modul : 8

Kegiatan I (Konfigurasi Access List)

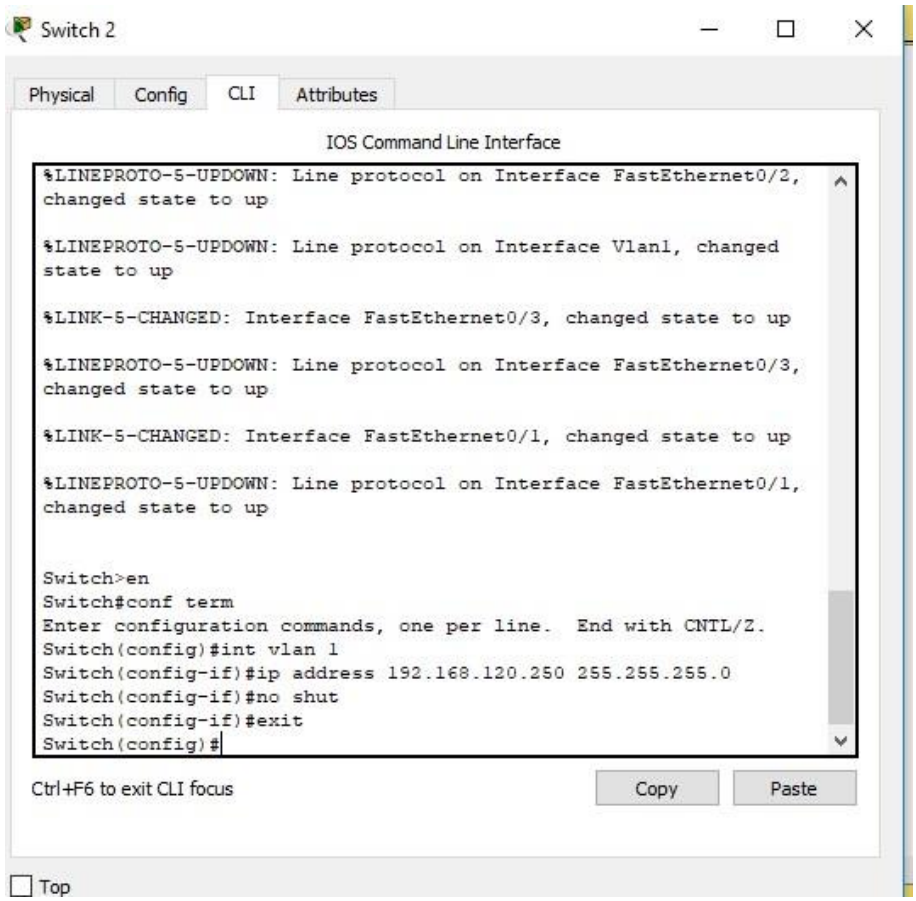


1. Memberikan alamat Ip (Switch 1 dan Switch 2) untuk digunakan sebagai default gateway bagi semua komputer.

Switch 1

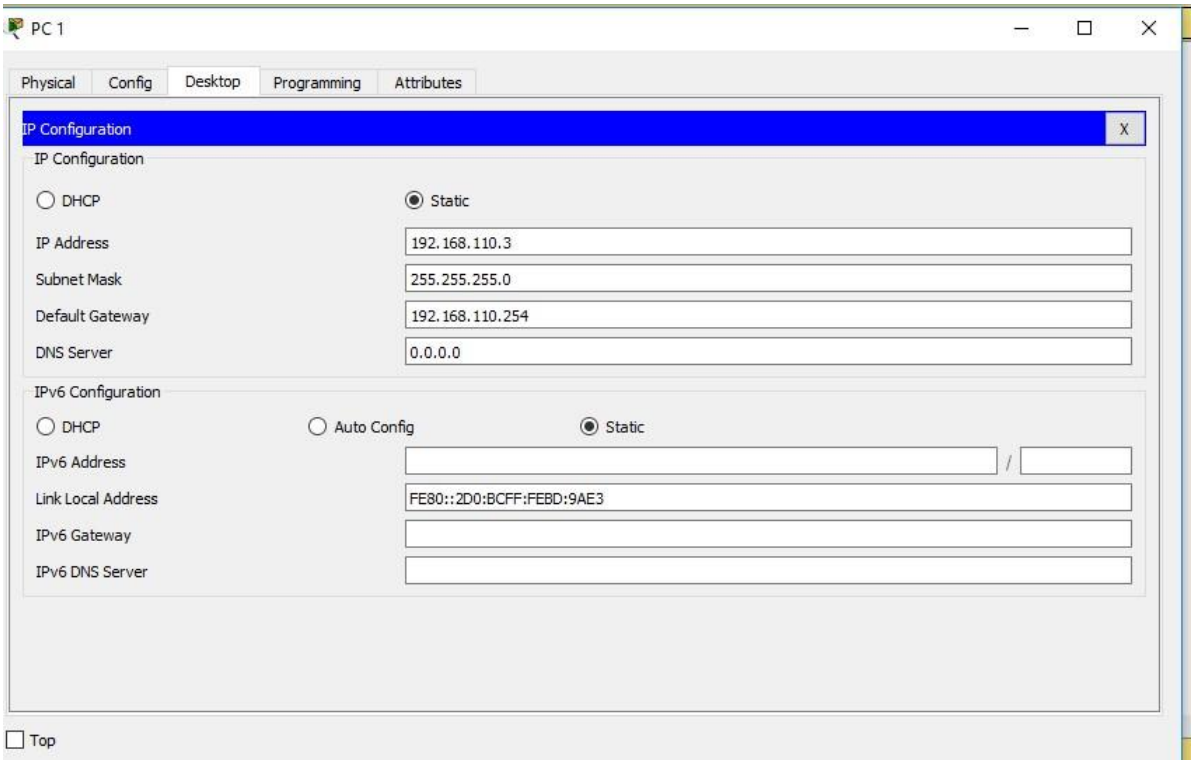

Switch 1
Physical
Config
CLI
Attributes
IOS Command Line Interface
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
Switch>enable
Switch#
Switch#vlan database
% Warning: It is recommended to configure VLAN from config mode, as VLAN database mode is being deprecated. Please consult user documentation for configuring VTP/VLAN in config mode.
Switch(vlan)#exit
APPLY completed.
Exiting....
Switch#en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int vlan 1
Switch(config-if)#ip address 192.168.110.250 255.255.255.0
Switch(config-if)#no shut
Switch(config-if)#exit
Switch(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste

Switch 2

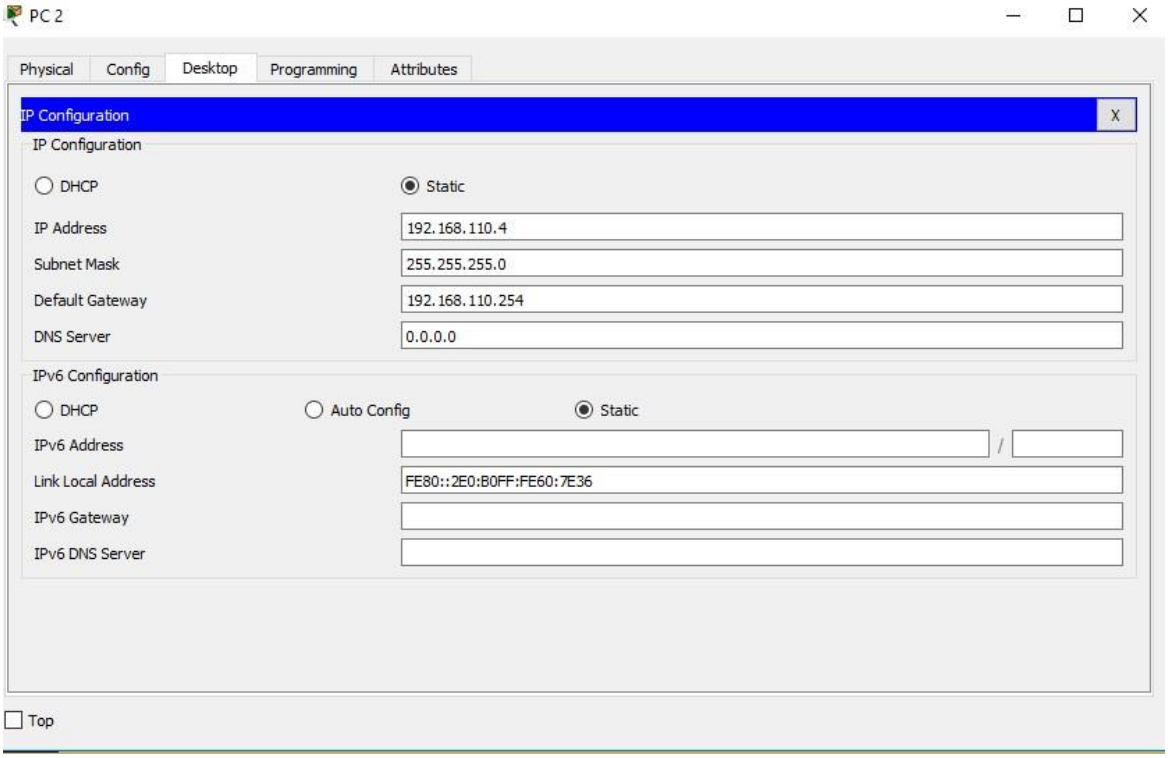


2. memberikan Alamat Ip, subnet mask, dan gateway default pada masing-masing PC **PC**

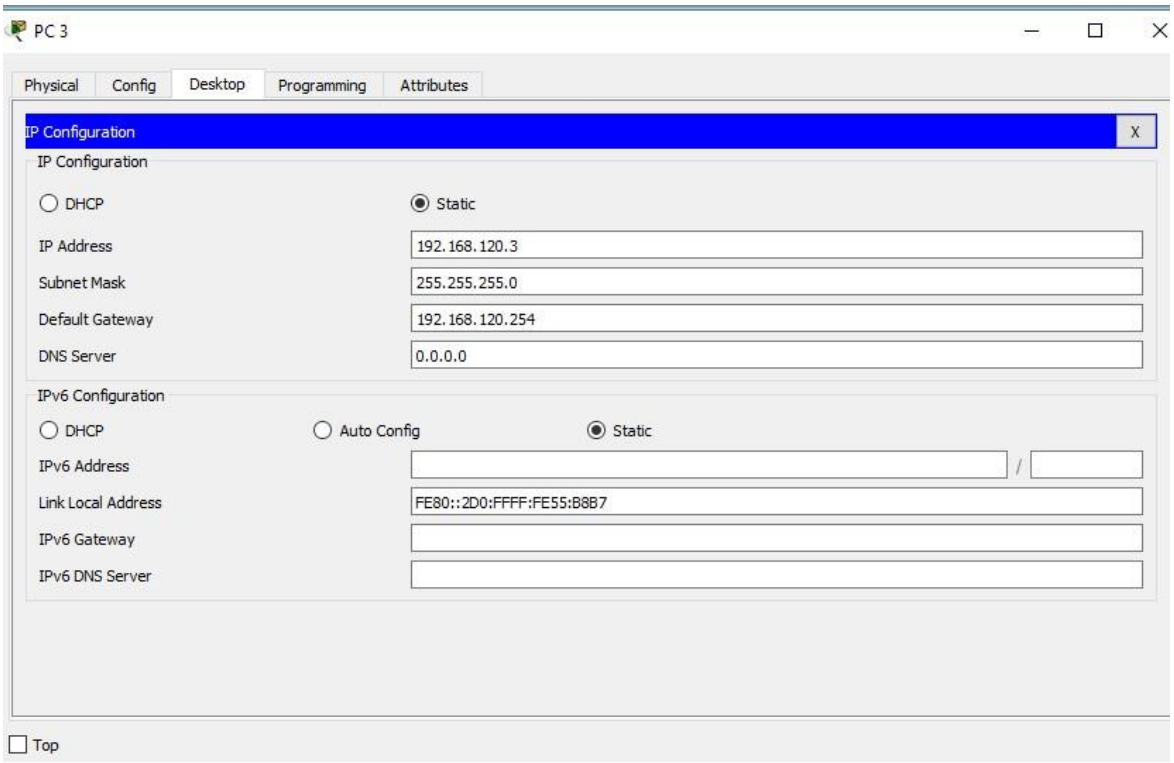
1


PC 1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
192.168.110.3
Subnet Mask
255.255.255.0
Default Gateway
192.168.110.254
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::2D0:BCFF:FEBD:9AE3
IPv6 Gateway
IPv6 DNS Server
Top

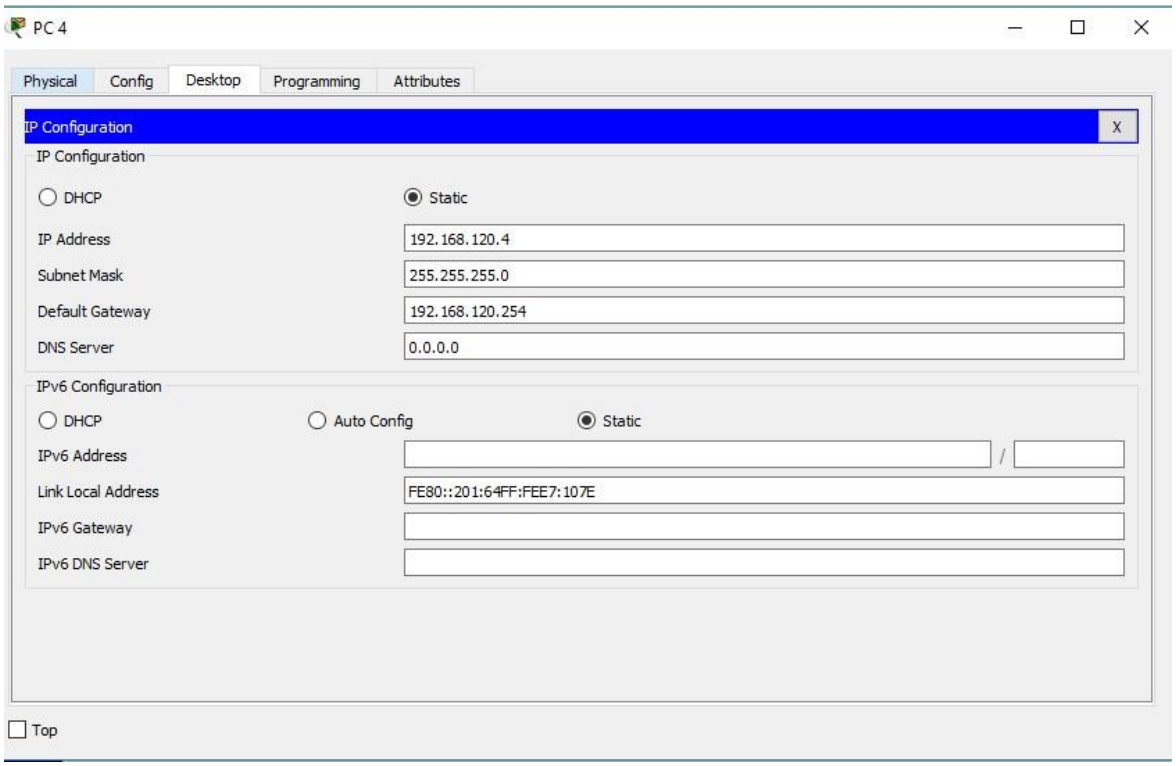
PC 2


PC 2
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
192.168.110.4
Subnet Mask
255.255.255.0
Default Gateway
192.168.110.254
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::2E0:B0FF:FE60:7E36
IPv6 Gateway
IPv6 DNS Server
Top

PC 3

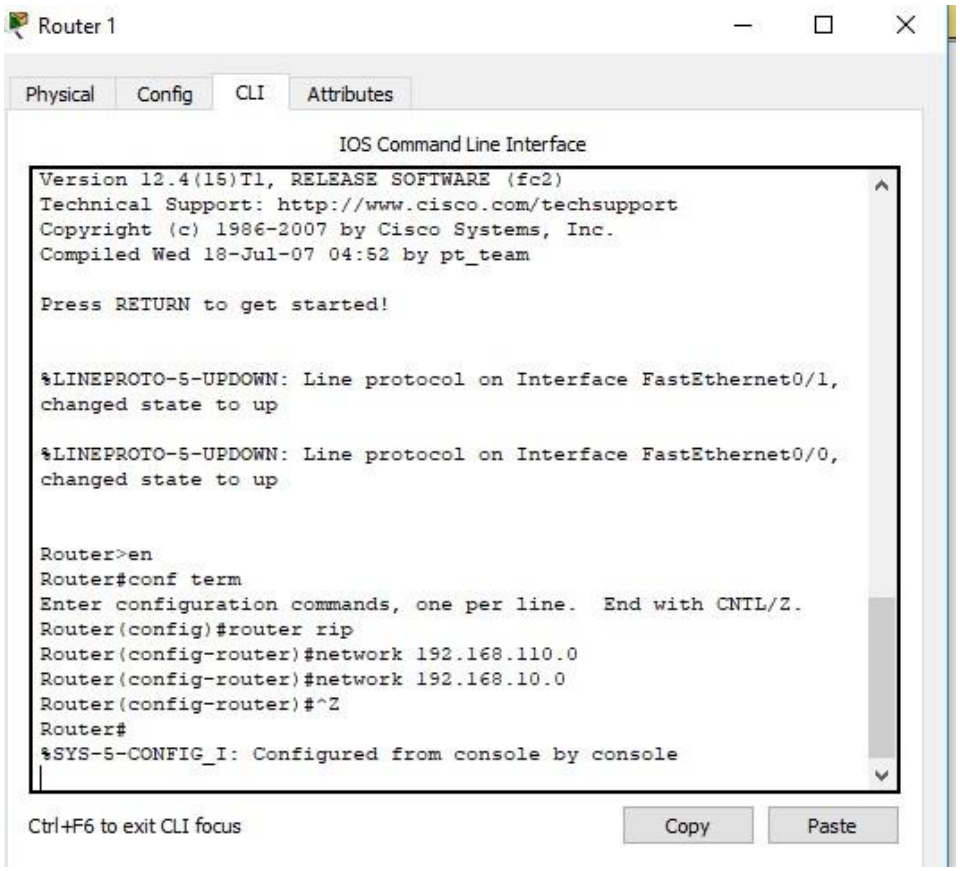


PC 4

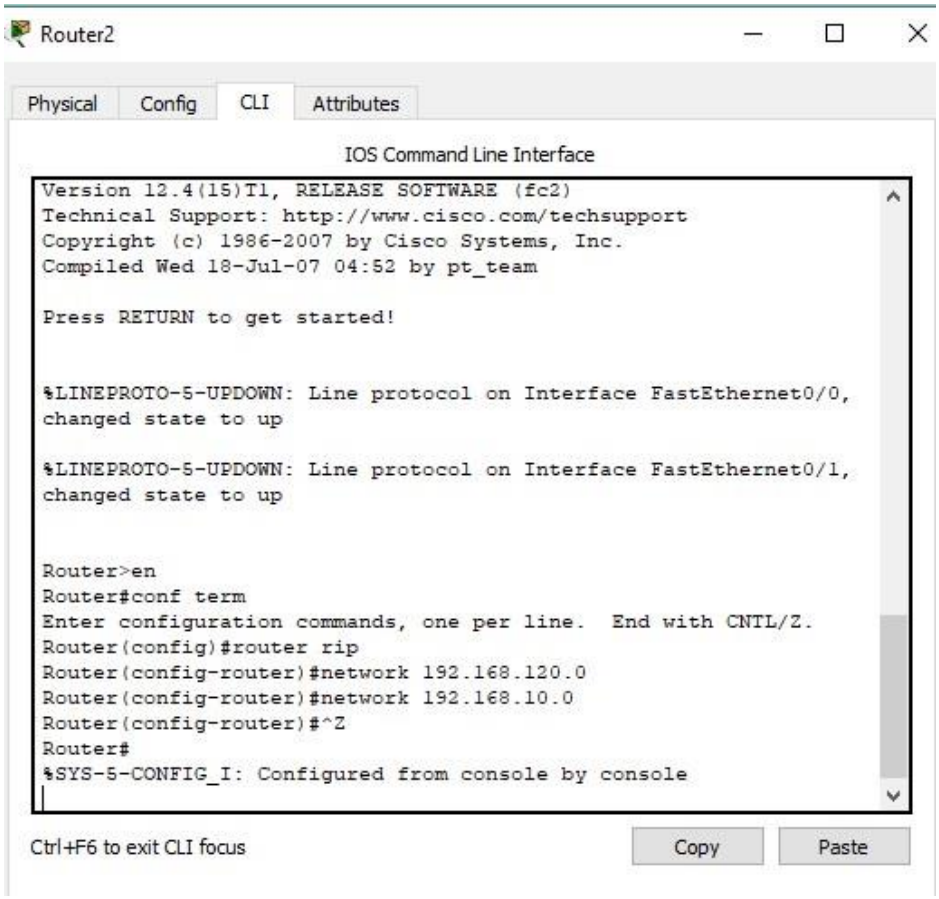


3. Lakukan Routing pada Router 1 dan Router 2

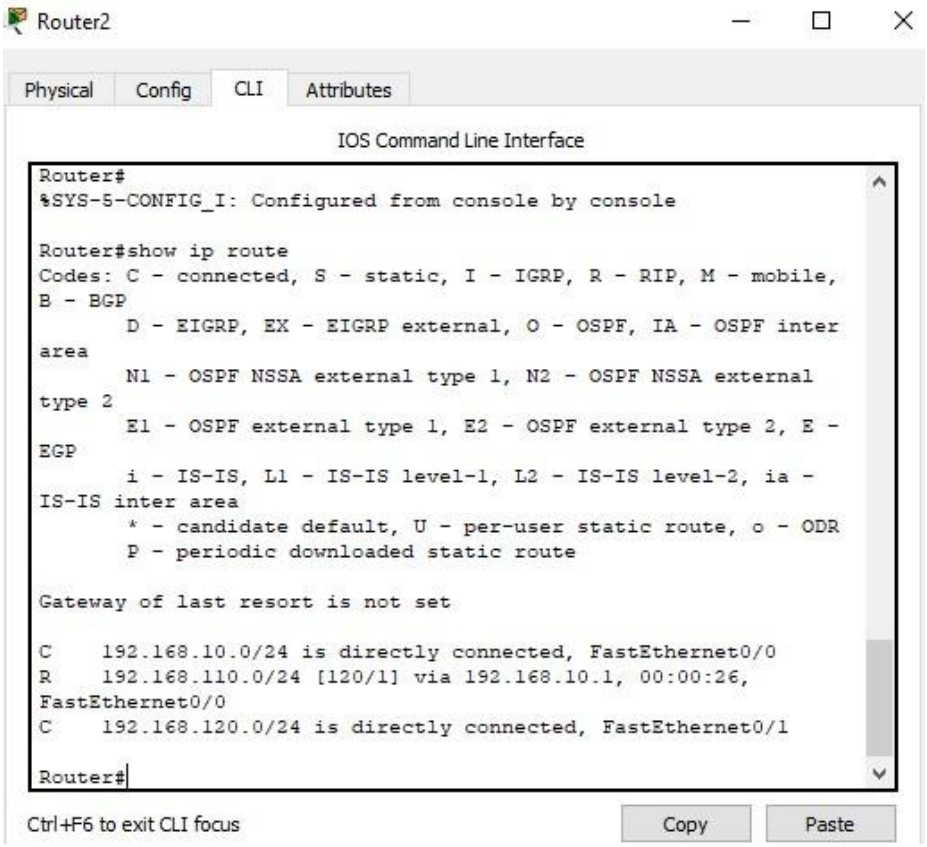
Router 1 diberikan Network ID 192.168.110.0 dan 192.168.10.0



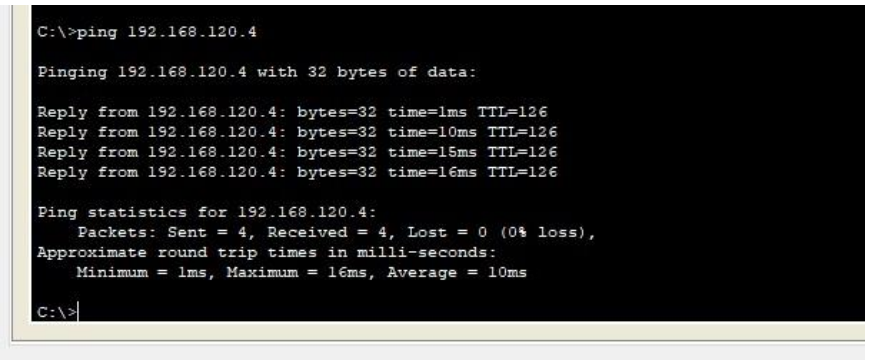
Router 2 diberikan network ID 192.168.120.0 dan 192.168.10.0



4. Lakukan pengecekan tabel routing pada kedua router tersebut dengan perintah [show ip route]



5. Melakukan tes koneksi dari PC 1 ke PC 4 dengan menggunakan perintah ping



6. menentukan access List yang akan diterapkan pada jaringan tersebut. Router 1 akan mengizinkn semua host dari jaringan 192.168.100.0

```
Router(config-if)#exit
Router(config)#access-list 10 permit 192.168.120.0 0.0.255.255
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

7.Menerapkan access list 10 untuk interface e1

```
Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip access-group 10 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

8. Kemudian lihat konfigurasi access list tersebut pada router 1

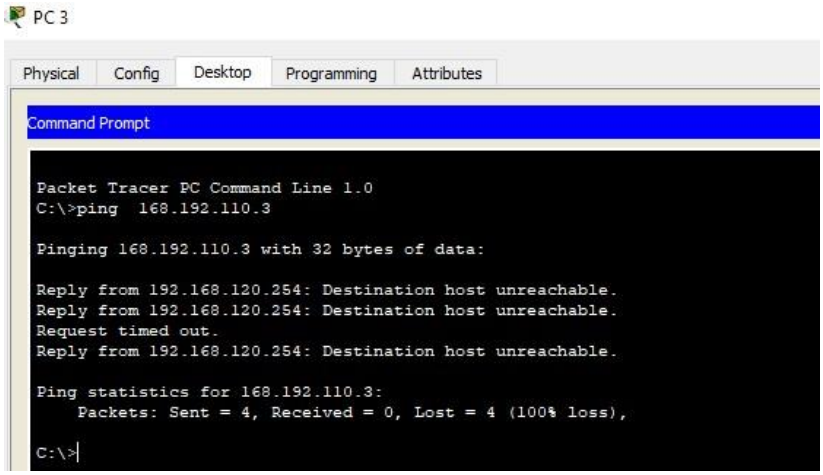
```
Router#show access-lists
Standard IP access list 10
    10 permit 192.168.0.0 0.0.255.255
Standard IP access list 20
    10 permit host 192.168.120.4 (7 match(es))
    20 permit 192.168.0.0 0.0.255.255 (8 match(es))
```

9.lakukan perintah [show running-config]

```
Router#show running-config
Building configuration...

Current configuration : 821 bytes
!
version 12.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
```

10. tes koneksi dengan cara melakukan ping antara PC 3 dan PC 1



Replay karena jaringan 192.168.120.0 dapat mengakses jaringan 192.168.100.0. 11.

Memberikan akses hanya pada 1 host PC 4 dengan alamat ip 192.168.120.4

```
Router#en
Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#access-list 20 permit 192.168.120.4 0.0.0.0
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int FastEthernet0/1
Router(config-if)#ip access-group 20 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

12. tes koneksi dari PC 3 192.168.120.0 ke PC 1 dan PC 2 192.168.110.0

```
C:\>ping  168.192.110.3

Pinging 168.192.110.3 with 32 bytes of data:

Reply from 192.168.120.254: Destination host unreachable.
Reply from 192.168.120.254: Destination host unreachable.
Reply from 192.168.120.254: Destination host unreachable.
Reply from 192.168.120.254: Destination host unreachable.

Ping statistics for 168.192.110.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping  168.192.110.4

Pinging 168.192.110.4 with 32 bytes of data:

Reply from 192.168.120.254: Destination host unreachable.
Reply from 192.168.120.254: Destination host unreachable.
Reply from 192.168.120.254: Destination host unreachable.
Reply from 192.168.120.254: Destination host unreachable.

Ping statistics for 168.192.110.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

13. tes koneksi dari PC 4 192.168.120.0 ke PC 1 dan PC 2 192.168.110.0

```
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:

Reply from 192.168.110.3: bytes=32 time=1ms TTL=126
Reply from 192.168.110.3: bytes=32 time=12ms TTL=126
Reply from 192.168.110.3: bytes=32 time=1ms TTL=126
Reply from 192.168.110.3: bytes=32 time=12ms TTL=126

Ping statistics for 192.168.110.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 12ms, Average = 6ms
```

```
C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:

Reply from 192.168.110.4: bytes=32 time<1ms TTL=126
Reply from 192.168.110.4: bytes=32 time=13ms TTL=126
Reply from 192.168.110.4: bytes=32 time=11ms TTL=126
Reply from 192.168.110.4: bytes=32 time=3ms TTL=126

Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 13ms, Average = 6ms

C:\>
```

Kegiatan 2 (Konfigurasi Extended Access List)

1.

```
Router#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#access-list 100 permit tcp
% Incomplete command.
Router(config)#access-list 100 permit tcp 192.168.120.0 0.0.0.255
192.168.110.3 0.0.0.0 eq telnet
Router(config)#int FastEthernet0/0
Router(config-if)#ip access-group 100 in
Router(config-if)#
```