Nama : Sukma Nindi Listyarini

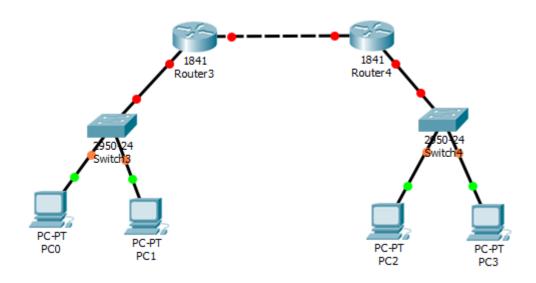
Kelas : D

NIM : L200170147

Laporan Praktikum - Jaringan Komputer MODUL 8

Kegiatan 1

1. Mendesain jaringan menggunakan cisco packet tracer



2. Memberikan alamat ip untuk digunakan sebagai default gateway bagi semua komputer.

Swicth 1

```
Switch>en
Switch‡con t

% Ambiguous command: "con t"
Switch‡config 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)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

Switch(config-if)#exit
Switch(config)#
```

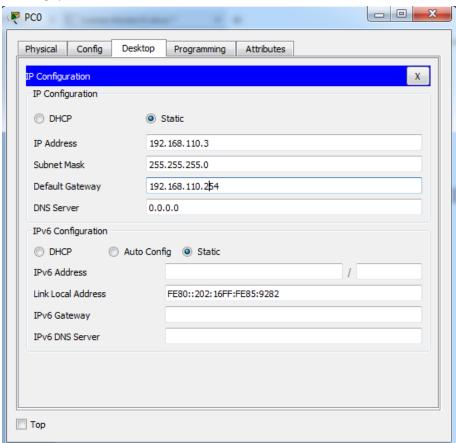
Swicth 2

```
Switch>en
Switch#config term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int vlan 1
Switch(config-if)#ip address 192.168.120.250 255.255.255.0
Switch(config-if)#no shut

Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
exit
Switch(config)#
```

3. Mengatur konfigurasi tiap PC

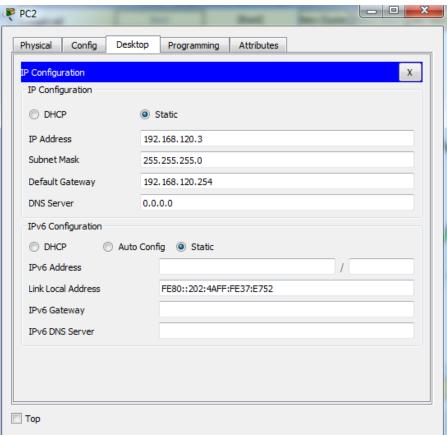
PC 0

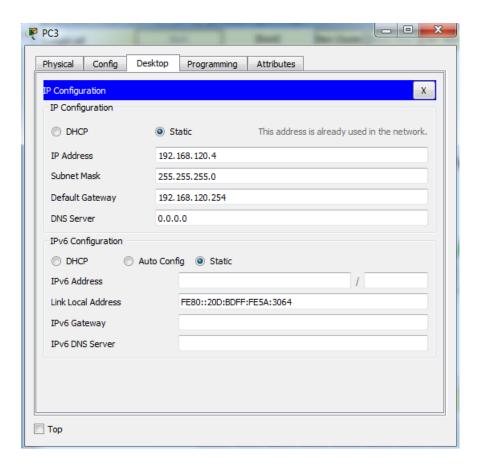


PC 1

IP Configuration	x
IP Configuration	
O DHCP	Static
IP Address	192.168.11.4
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::205:5EFF:FEE7:C570
IPv6 Gateway	
IPv6 DNS Server	

PC 2





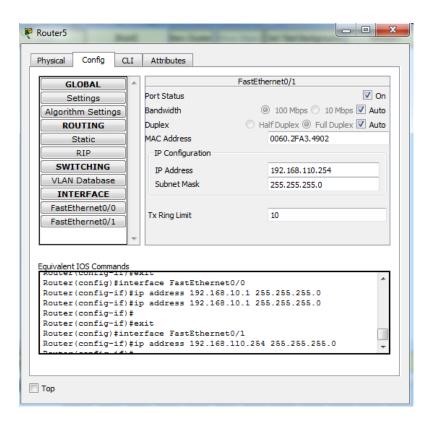
4. Gunakan routing dengan protocol RIP pada kedua jaringan.

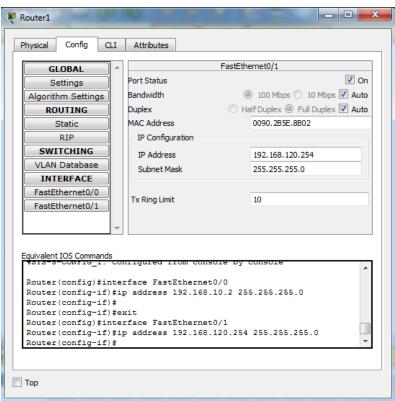
Router 1

```
Router > en
Router # config term
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) # router rip
Router (config-router) # network 192.168.110.0
Router (config-router) # network 192.168.10.0
Router (config-router) # ^ Z
Router #
$ SYS-5-CONFIG_I: Configured from console by console
```

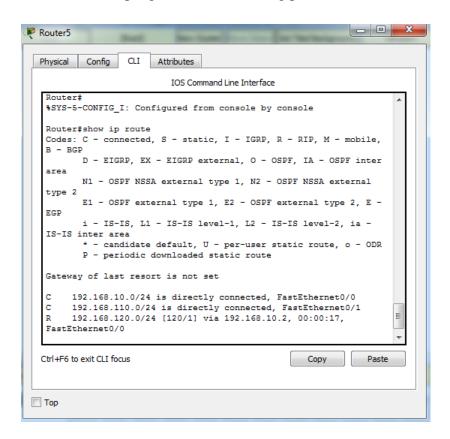
Router 2

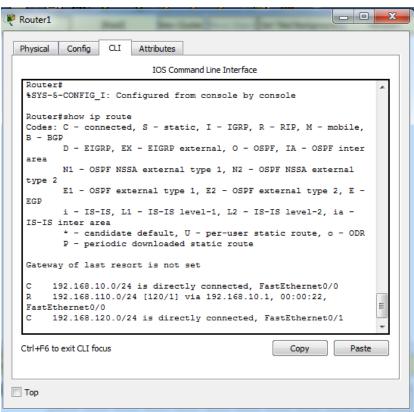
```
Router > en
Router # config term
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) # router rip
Router (config - router) # network 192.168.120.0
Router (config - router) # network 192.168.10.0
Router (config - router) # ~ Z
Router # $ SYS - 5 - CONFIG_I: Configured from console by console
```





5. Melakukan pengecekan tabel routing pada kedua router





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

```
C:\>ping 192.168.120.4

Pinging 192.168.120.4 with 32 bytes of data:

Reply from 192.168.120.4: bytes=32 time=1ms TTL=126
Reply from 192.168.120.4: bytes=32 time<1ms TTL=126
Reply from 192.168.120.4: bytes=32 time<1ms TTL=126
Reply from 192.168.120.4: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.120.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

7. Menentukan Access List yang akan diterapkan dalam jaringan.

```
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
```

8. Melihat konfigurasi access list pada router 1

```
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/1
Router(config-if)#ip access-group 10 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show access-lists
Standard IP access list 10
10 permit 192.168.0.0 0.0.255.255
```

9. Melihat konfigurasi Access List pada ethernet 1.

10. Melakukan tes koneksi

```
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.110.3:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

11. Memberikan access hanya pada 1 host PC4 dengan alamat IP 192.168.120.4

```
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#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #int fa 0/1
Router(config-if) #ip access-group 20 out
Router(config-if) #^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

12. Melakukan ping dari PC3 ke PC1 dan PC2

```
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.110.3:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.110.4:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

13. Melakukan uji tes koneksi dari PC 4 ke PC1 dan PC2

```
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<1ms TTL=126
Reply from 192.168.110.3: bytes=32 time<1ms TTL=126
Reply from 192.168.110.3: bytes=32 time<1ms 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 = 0ms, Maximum = 1ms, Average = 0ms</pre>
C:\>
```

```
C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:

Request timed out.

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

Reply from 192.168.110.4: bytes=32 time=8ms TTL=126

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

Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 8ms, Average = 2ms</pre>
```