Nama : Pawitro Purbangkoro

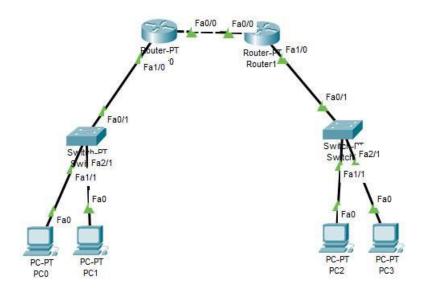
NIM : L200170045

Kelas : B

## MODUL08

# PACKET FILTERING DENGAN ACCESS LIST

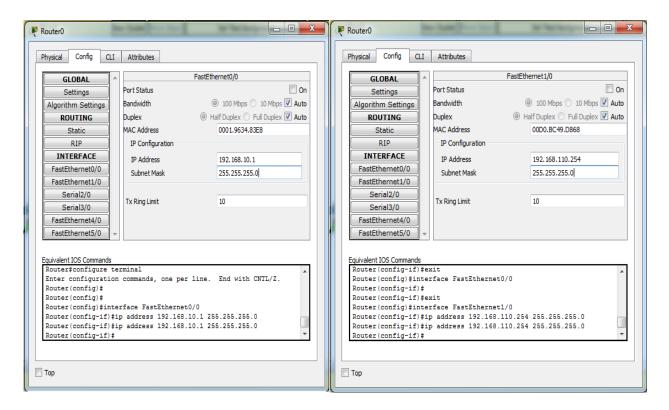
# Kegiatan 1. Konfigurasi Access List



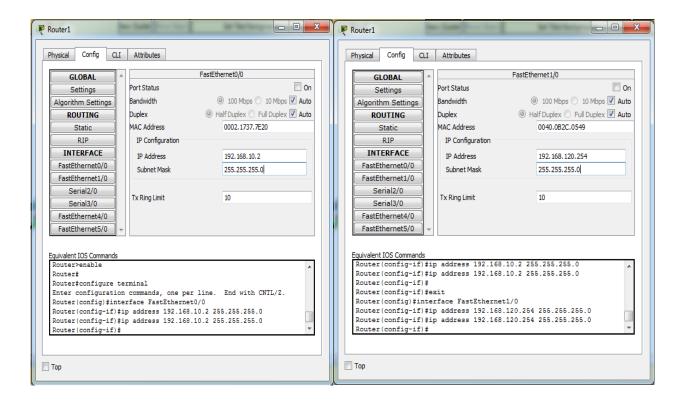
Langkah – langkah yang dilakukan untuk mengkonfigurasi Access List pada rangkaian di atas:

## 1. Berikan IP pada:

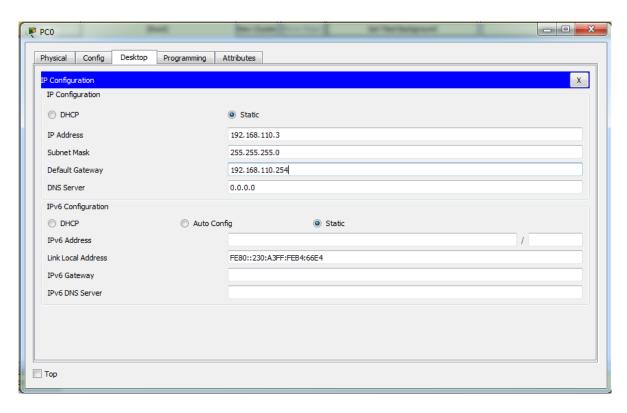
a. Router 0.

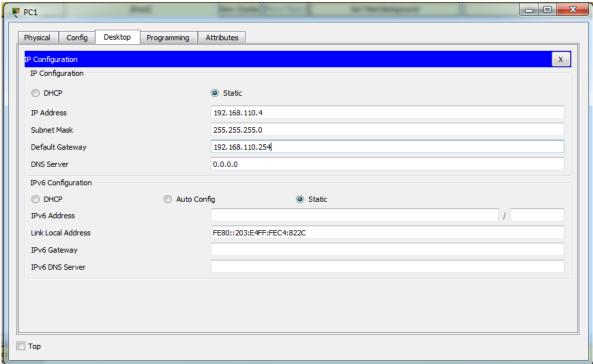


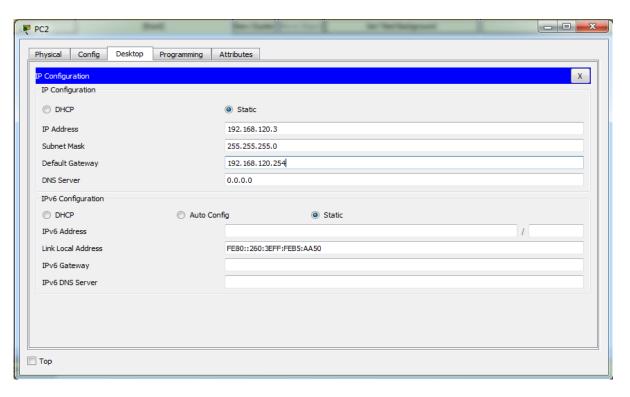
### b. Router1

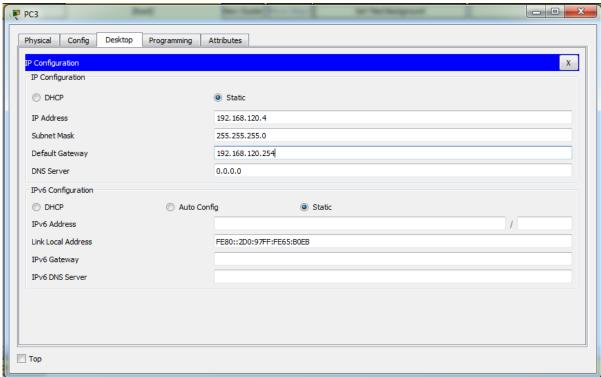


2. Berikan alamat IP, subnet mask, dan default gateway pada PC0, PC1, PC2, dan PC3

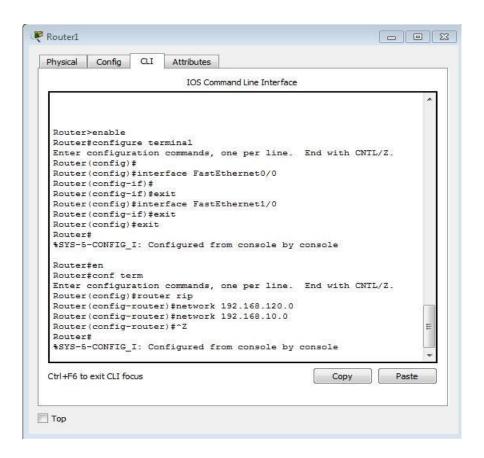


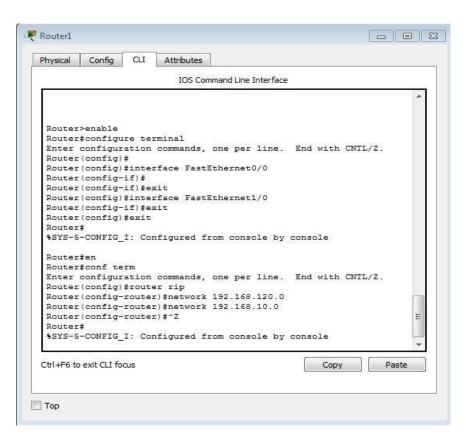




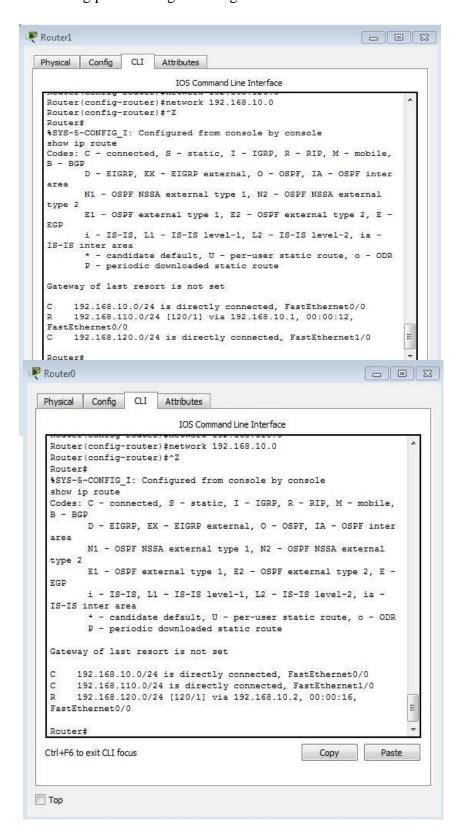


3. Setting RIP protocol pada masing – masing router.





4. Mengecek tabel routing pada masing – masing router.



5. Melakukan tes koneksi dengan menggunakan perintah [ping] pada PC0 ke PC3, dan sebaliknya.

#### PC0

```
C:\>ping 192.168.120.4 with 32 bytes of data:

Reply from 192.168.120.4: bytes=32 time=lms 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 = 1ms, Maximum = 1ms, Average = 1ms
```

#### PC1

```
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=1ms TTL=126

Reply from 192.168.110.4: bytes=32 time<1ms 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 = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

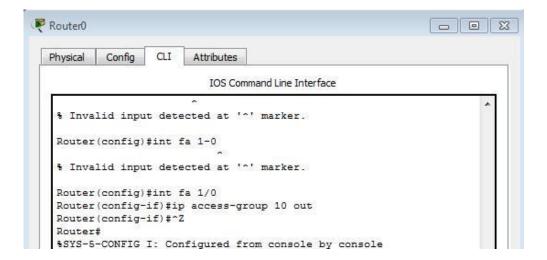
Dari hasil yang muncul, menunjukkan bahwa masing – masing PC saling membalas ping yang mereka terima, sehingga routing berhasil.

6. Berikutnya mengatur Access List pada Router0.

```
Router > en
Router # configuration commands, one per line. End with CNTL/Z.

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. Melihat konfigurasi Access List Router0.

```
show access-lists
Standard IP access list 10
10 permit 192.168.0.0 0.0.255.255
```

 Melakukan tes koneksi dengan menggunakan perintah [ping] pada PC0 ke PC3, dan sebaliknya. kedua PC tersebut berada pada jaringan yang berbeda, jika koneksi berhasil maka routing anada berhasil

```
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=10ms TTL=126

Reply from 192.168.120.4: bytes=32 time=lms TTL=126

Reply from 192.168.120.4: bytes=32 time=lms TTL=126

Ping statistics for 192.168.120.4:

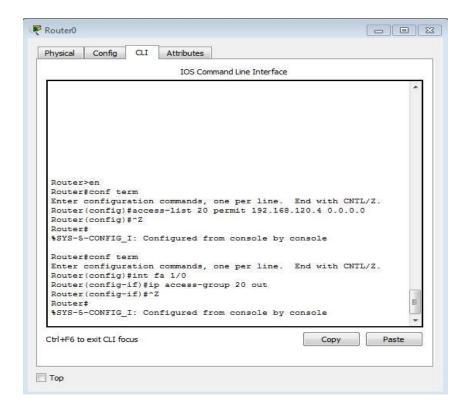
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 10ms, Average = 3ms

C:\>
```

8. Membuat Access List lain pada Router0.



9. Melakukan test koneksi pada PC2 yang berada pada jaringan 192.168.120.0 ke PC0 dan PC1 yang ada pada jaringan 192.168.110.0.

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.110.3
Pinging 192.168.110.3 with 32 bytes of data:
Reply from 192.168.10.1: Destination host unreachable.
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:
Reply from 192.168.10.1: Destination host unreachable.
Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Kesimpulan dari tes 'ping' diatas adalah berhasil terjadi koneksi karenakan dari [Router 0] mengijinkan semua host dari jaringan 192.168.120.0 dapat mengkases jaringan 192.1668.100.0

10. Melakukan test koneksi pada PC3 yang berada pada jaringan 192.168.120.0 ke PC0 dan PC1 yang ada pada jaringan 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=lms TTL=126
Reply from 192.168.110.3: bytes=32 time=3ms TTL=126
Reply from 192.168.110.3: bytes=32 time=10ms TTL=126
Reply from 192.168.110.3: bytes=32 time=lms 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 = lms, Maximum = 10ms, Average = 3ms
```

```
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=1lms TTL=126

Reply from 192.168.110.4: bytes=32 time=10ms TTL=126

Reply from 192.168.110.4: bytes=32 time=lms 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 = lms, Maximum = 1lms, Average = 7ms
```

Kesimpulannya, tes di atas berhasil karena Access List yang diatur untuk koneksi diatur agar mengijinkan hanya host dengan ip address 192.168.120.4 dimana merupakan ip dari PC3, sehingga pada saat di lakukan ping berhasil.

## Kegiatan 2. Konfigurasi Extended Access List

Mengkonfigurasi Extended Access List pada Router0.

```
Router#en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
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 fa 0/0
Router(config-if)#ip access-group 100 in
Router(config-if)#
```

Melakukan test koneksi dengan ping.

#### PC2

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.110.3

Pinging 192.168.110.3 with 32 bytes of data:

Reply from 192.168.10.1: Destination host unreachable.

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:

Reply from 192.168.10.1: Destination host unreachable.
Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

### PC3

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.110.3 with 32 bytes of data:

Reply from 192.168.10.1: Destination host unreachable.
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:

Reply from 192.168.10.1: Destination host unreachable.

Ping statistics for 192.168.110.4:

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