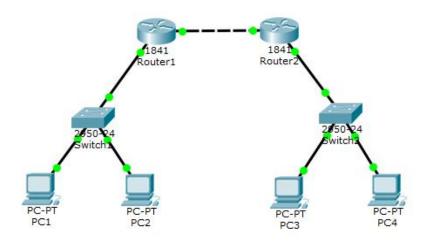
Nama : Lail Nur Rachman NIM : L200170137

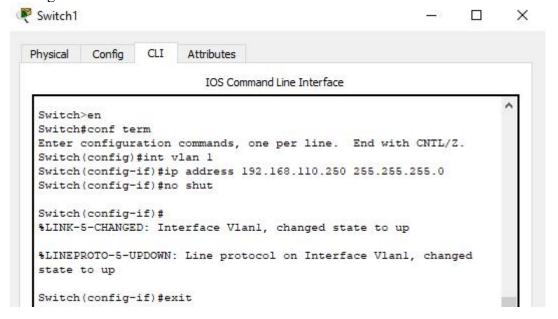
Kelas C

MODUL 8

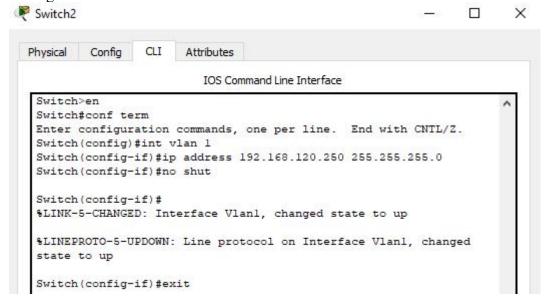
Kegiatan 1. Konfigurasi Access List



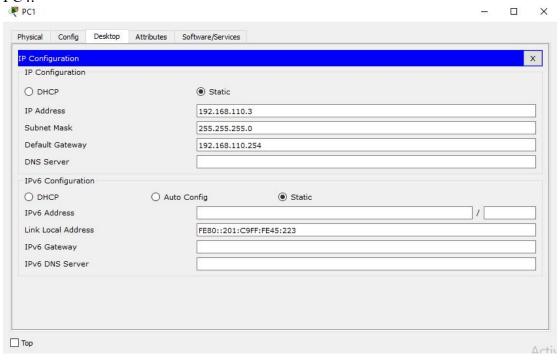
Konfigurasi alamat IP untuk Switch1

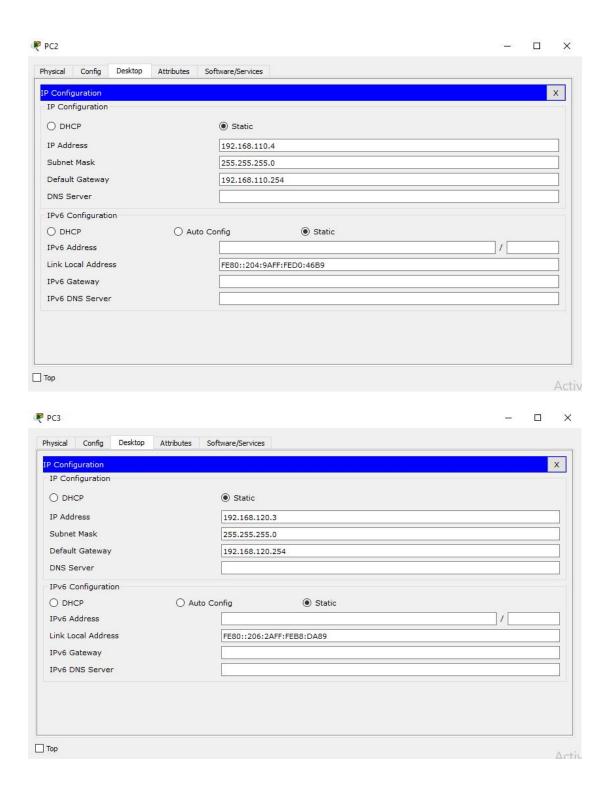


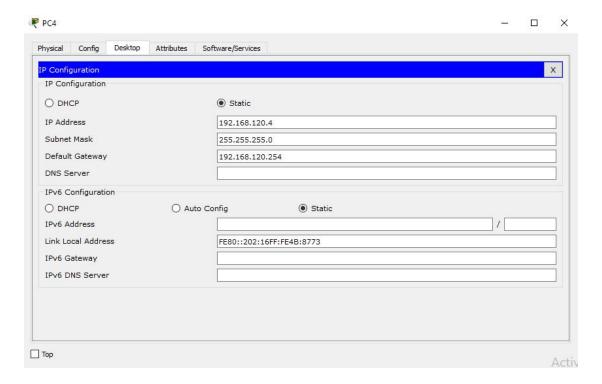
Konfigurasi alamat IP untuk Switch2



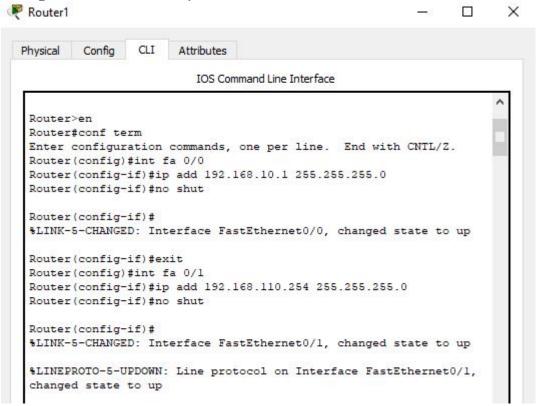
Konfigurasi alamat IP, subnet mask, dan default gateway pada PC1, PC2, PC3 dan PC4.

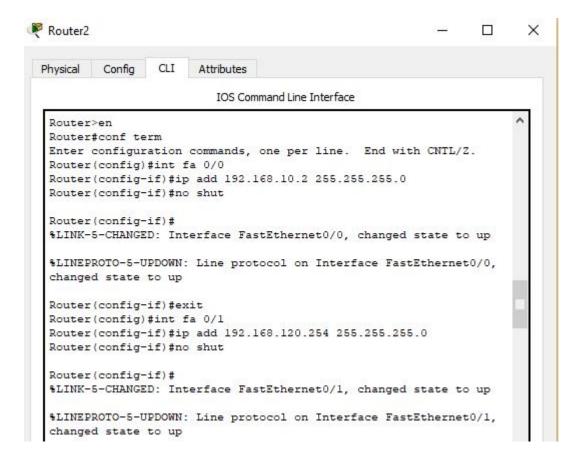






Konfigurasi IP dan Interface pada Router1 dan Router 2.





Konfigurasi protokol RIP pada Router1.

```
Router(config-if) #exit

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
```

Konfigurasi protokol RIP pada Router2.

```
Router(config-if) #exit
Router(config) #route 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
```

Pengecekan tabel routing pada kedua router dengan perintah [show ip route]. Router1 Config CLI Physical Attributes IOS Command Line Interface Router#show ip route Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, E -EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia -IS-IS inter area * - candidate default, U - per-user static route, o - ODR P - periodic downloaded static route Gateway of last resort is not set 192.168.10.0/24 is directly connected, FastEthernet0/0 192.168.110.0/24 is directly connected, FastEthernet0/1 192.168.120.0/24 [120/1] via 192.168.10.2, 00:00:13, R FastEthernet0/0 Router2 X CLI Physical Config Attributes IOS Command Line Interface Router#show ip route Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, E -EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia -IS-IS inter area * - candidate default, U - per-user static route, o - ODR P - periodic downloaded static route Gateway of last resort is not set 192.168.10.0/24 is directly connected, FastEthernet0/0 192.168.110.0/24 [120/1] via 192.168.10.1, 00:00:14, FastEthernet0/0

192.168.120.0/24 is directly connected, FastEthernet0/1

Tes koneksi dari PC1 ke PC4.

```
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=lms TTL=126

Reply from 192.168.120.4: bytes=32 time=l3ms 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 = lms, Maximum = 13ms, Average = 4ms
```

Access List yang mengijinkan semua host dari jaringan 192.168.120.0 dapat mengakses jaringan 192.168.100.0

```
Router term
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
```

Access List pada Interface Router1.

```
Router#conf 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
```

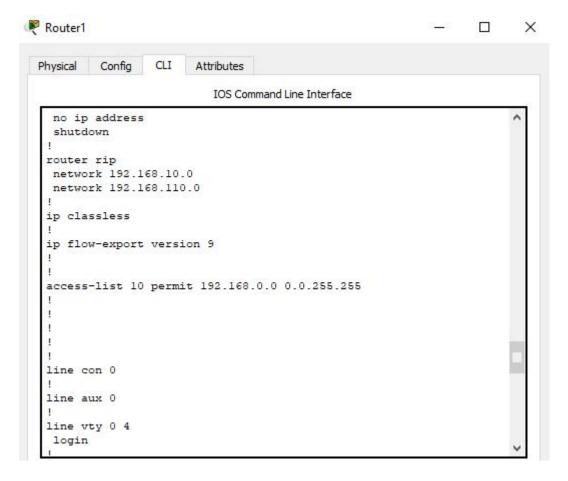
Menampilkan konfigurasi Access List pada Router1.

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

Konfigurasi Access List pada Ethernet1.

speed auto





Tes koneksi dua arah antara PC3 dengan PC1.

- Dari PC1 ke PC3

```
C:\>ping 192.168.120.3

Pinging 192.168.120.3 with 32 bytes of data:

Reply from 192.168.120.3: bytes=32 time=7ms TTL=126

Reply from 192.168.120.3: bytes=32 time<1ms TTL=126

Reply from 192.168.120.3: bytes=32 time<1ms TTL=126

Reply from 192.168.120.3: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.120.3:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 7ms, Average = 1ms

C:\>
```

- Dari PC3 ke PC1

```
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 192.168.110.3: bytes=32 time<lms TTL=126
Reply from 192.168.110.3: bytes=32 time<lms TTL=126
Reply from 192.168.110.3: bytes=32 time=13ms TTL=126
Reply from 192.168.110.3: bytes=32 time=13ms 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 = 13ms, Average = 3ms
```

Access List pada 1 host yaitu PC4 dengan alamat IP 192.168.120.4 agar dapat mengakses jaringan 192.168.110.0

```
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
```

Penerapan Access List ke Interface [Ethernet1] pada Router1.

```
Router#conf 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
```

Tes koneksi dari PC3 ke PC1 dan PC2.

```
C:\>ping 192.168.110.3

Pinging 192.168.10.1: Destination host unreachable.

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),

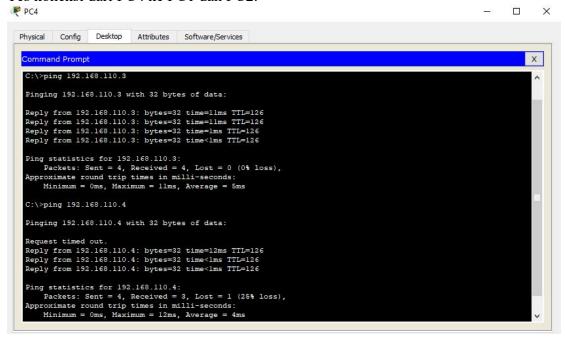
C:\>ping 192.168.110.4

Pinging 192.168.110.4 with 32 bytes of data:

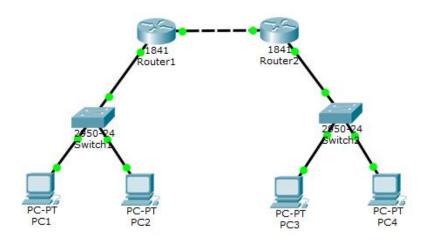
Reply from 192.168.10.1: Destination host unreachable.

Ping statistics for 192.168.110.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Tes koneksi dari PC4 ke PC1 dan PC2.



Kegiatan 2. Konfigurasi Extended Access List



```
Routerfconf 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

§ 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 fa 0/1
Router(config-if) #ip access-group 100 in
Router(config-if) #exit
Router(config) #
```