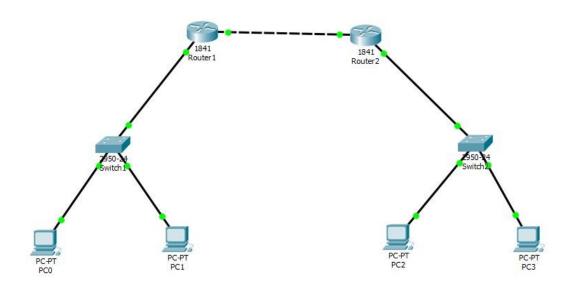
NAMA : FEBRIANTO RIDWAN SYAH

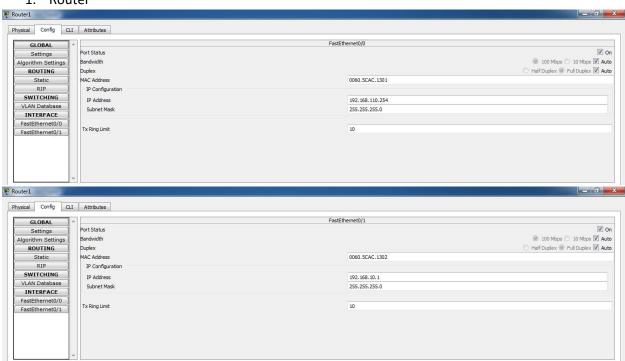
NIM : L200170121

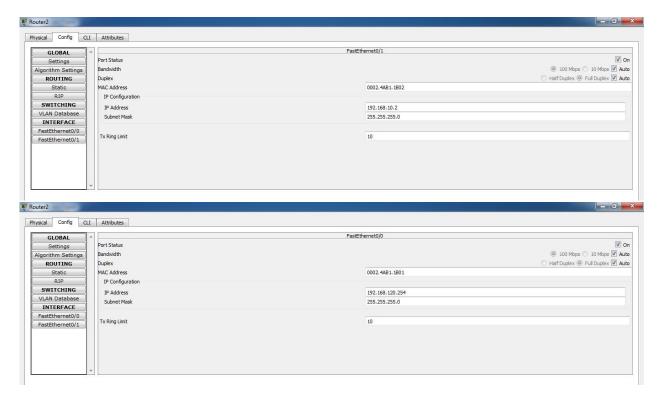
KELAS : C

MODUL: 8

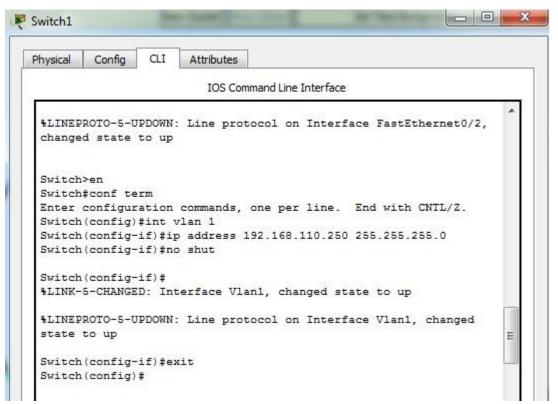


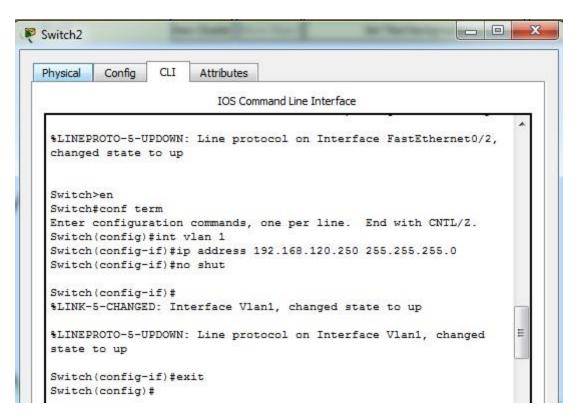
# 1. Router



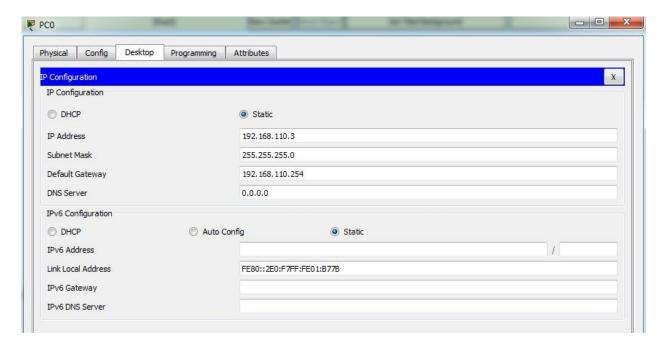


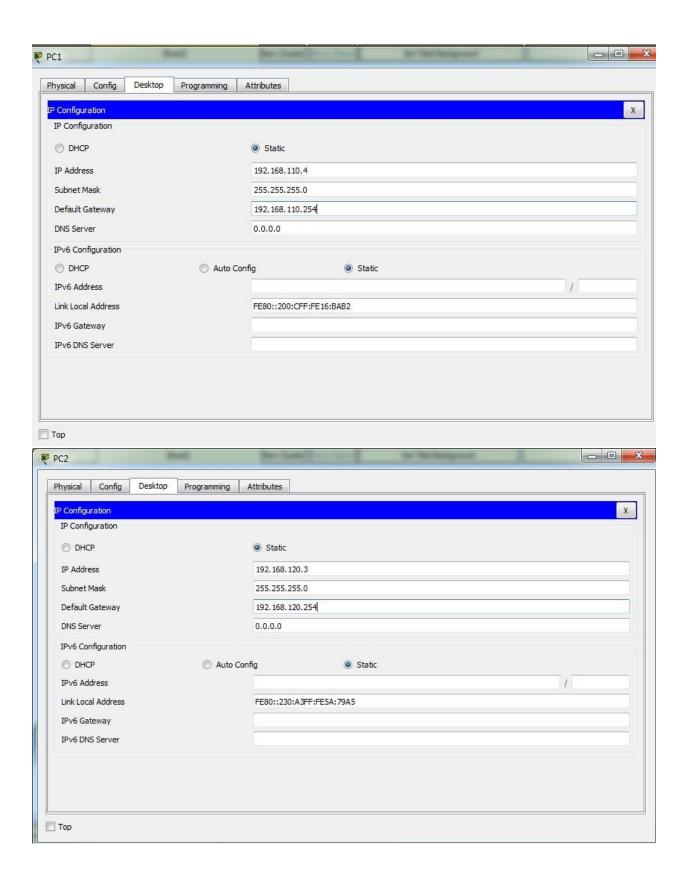
2. Memberi alamat ip pada setiap switch

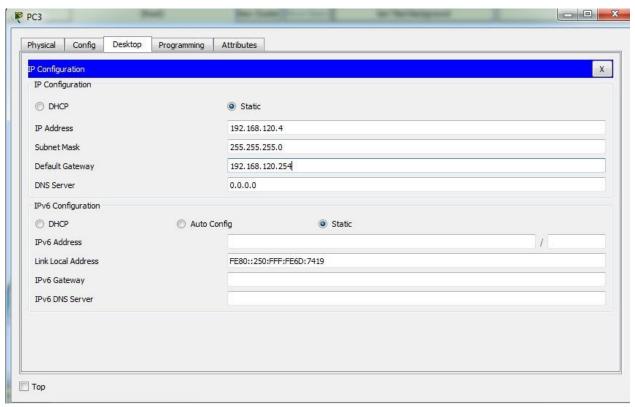




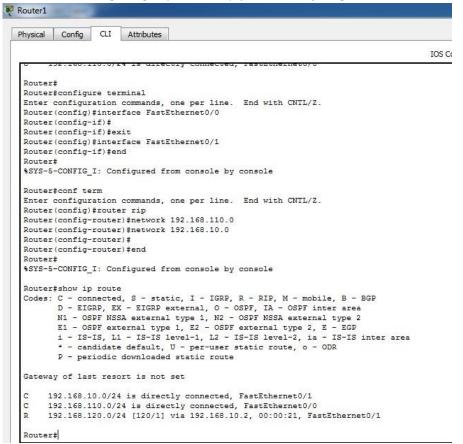
3. Memberikan alamat ip, sebnet mask, dan default gateway pada setiap pc







4. Pembuatan routing dengan protocol rip pada kedua jaringan

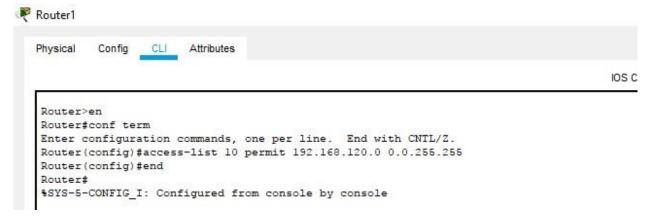


```
Router2
   Physical Config CLI Attributes
                                                                                                                       IOS Command L
      SYS-5-CONFIG_I: Configured from console by console
     Router#conf term
     Enter configuration commands, one per line. End with CNTL/Z. Router(config) \#network 192.168.120.0
     % Invalid input detected at '^' marker.
     Router(config) #router rip
     Router(config-router) #network 192.168.120.0
     Router(config-router) #network 192.168.10.0
     Router(config-router) #^Z
     % Invalid input detected at '^' marker.
     Router(config-router)#end
     %SYS-5-CONFIG_I: Configured from console by console
     Router#show ip router
     % Invalid input detected at '^' marker.
     Router#show ip route
     Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
              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, FastEthernet0/1
            192.168.110.0/24 [120/1] via 192.168.10.1, 00:00:01, FastEthernet0/1
           192.168.120.0/24 is directly connected, FastEthernet0/0
    Router#
```

#### 6. Ping dari pc 1 ke pc 4

```
- - X
PC0
   Physical Config Desktop Programming Attributes
    Command Prompt
                                                                                                                                                                   Х
    Pinging 192.168.120.4 with 32 bytes of data:
     Request timed out.
    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 = 3, Lost = 1 (25% loss), Approximate round trip times in milli-seconds:
           Minimum = Oms, Maximum = 1ms, Average = Oms
     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 = Oms, Maximum = 1ms, Average = Oms
```

### 7. Menentukan access list pada router 1



## 8. Menerapkan access list ke interface router 1

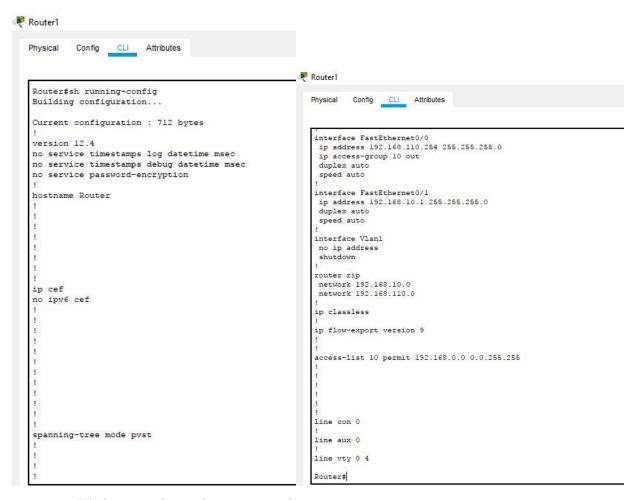
```
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip access-group 10 out
Router(config-if)#^Z

% Invalid input detected at '^' marker.

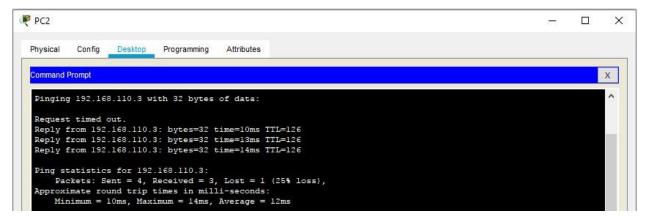
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

### 9. Lihat konfig access list router 1

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



11. Melakukan ping dua arah antara PC 3 dan PC 1



12. Berikan akses hanya pada satu host (PC 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) #end
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)#fa 0/0
% Invalid input detected at '^' marker.
Router(config) #int fa 0/0
Router(config-if) #ip access-group 20 out
Router(config-if) #end
Router#
%SYS-5-CONFIG I: Configured from console by console
```

13. Meneerapkan access list 20 tersebut pada interface Ethernet pada Router.

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

14. Melakukan ping dari pc 3 ke pc 1 dan 2

```
Physical Config Desktop Programming Attributes

Command Prompt

Minimum = 13ms, Maximum = 14ms, Average = 13ms

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 192.168.110.4

Pinging 192.168.110.4

Pinging 192.168.110.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreac
```

15. Melakukan ping dari pc 4 ke pc 1 dan 2

```
PC3
                                                                                                                                                                         X
  Physical Config Desktop Programming Attributes
    Command Prompt
                                                                                                                                                                                Х
    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=14ms TTL=126
Reply from 192.168.110.3: bytes=32 time=13ms TTL=126
Reply from 192.168.110.3: bytes=32 time=14ms 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 = 14ms, Average = 10ms
    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=14ms TTL=126 Reply from 192.168.110.4: bytes=32 time=12ms TTL=126
    Reply from 192.168.110.4: bytes=32 time=14ms 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 = 14ms, Average = 10ms
Тор
```

#### **KEGIATAN 2**

1. Konfigurasi extended access-list

```
Router en Router 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) end Router 
%SYS-5-CONFIG_I: Configured from console by console
```

2. Menerapkan access list tersebut ke interface router

```
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 100 in
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
```