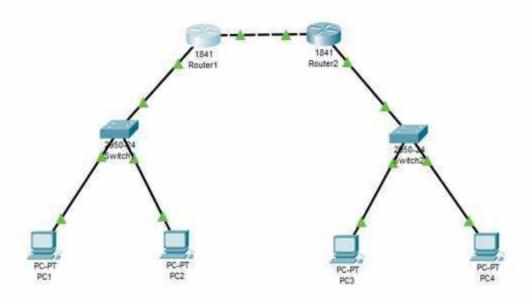
Modul 8

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NIM : L200174081

Kelas: D

Kegiatan 1. Konfigurasi Access List



Konfigurasi alamat IP pada Switch1.

```
Switch>enable
Switch$conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)$int vlan l
Switch(config-if)$ip address 192.168.110.250 255.255.255.0
Switch(config-if)$no shutdown

Switch(config-if)$
$LINK-5-CHANGED: Interface Vlanl, changed state to up

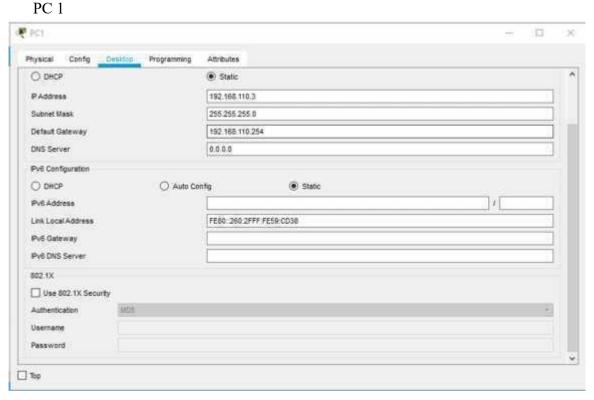
$LINEPROTO-S-UPDOWN: Line protocol on Interface Vlanl, changed state to up
```

Konfigurasi alamat IP pada Switch2.

```
Switch*enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/2.
Switch(config)#int vlan 1
Switch(config-if)#ip address 192.168.120.250 255.255.255.0
Switch(config-if)#no shutdown

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

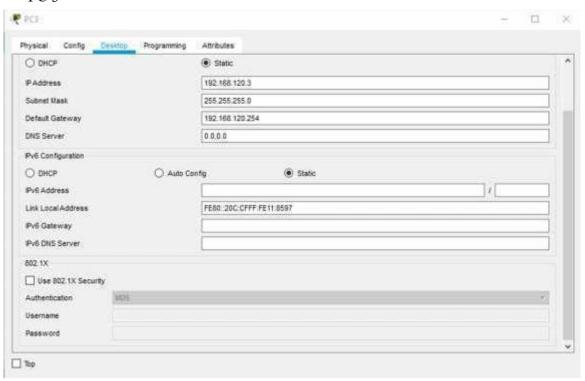
Konfigurasi alamat IP, Subnet Mask, dan Default Gateway pada masing-masing PC.



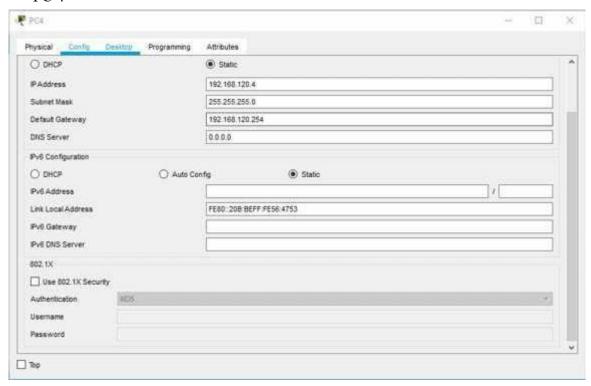
PC 2

C) DHCP	∰ State	
PAGDINI	192,168,110.4	
Submet Wasis	295-285-296-0	
Defaut Gelewey	192 168 110 254	
DIS Sever	0.000	
Pv8 Configuration		
O DHCP	○ Auto Config ® their:	
Pv6-Address		14[
Life Cocal Address	PEND: 200 4799 PED1 3253	
Pv6 Galeway		7)
Pv8 DNS Server		
902.1X		
		- M
002 1X Use 502 1X Security Authoritization MCS		
☐ tiee 502 KK Security		

PC 3



PC 4



Konfigurasi alamat IP dan Interface pada masing-masing Router.

Router 1

```
Router>enable
Routers
Router#configure terminal
Enter configuration commands, one per line. End with CMTL/2.
Router(config) #interface FastEthernet0/0
Router(config-if) #no ip address
Router(config-if) #ip address 152.168.10.1 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
Router(config-if) #exit
Router(config) #interface FastEthernet0/1
Router(config-if) #ip address 192.168.110.254 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
$LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

Router 2

```
Router>enable
Routers
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface FastEthernet0/0
Router(config-if) #ip address 192.168.10.2 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if) #exit
Router(config) #interface FastEthernet0/1
Router(config-if) #ip address 192.168.120.254 255.255.255.0
Router(config-if) #no shutdown
Router (config-if) #
%LINK-5-CHANGED: Interface FastEthernetO/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

Membuat Routing dengan Protokol RIP.

Router 1

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #router rip
Router(config-router) #network 192.168.110.0
Router(config-router) #network 192.168.10.0
Router(config-router) #>2
Router#
*SYS-5-CONFIG_I: Configured from console by console
```

Router 2

```
Router>enable
Router$conf 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
```

Pengecekan Table Routing pada masing-masing Router.

Router 1

```
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

D - periodic downloaded static route

Gateway of last resort is not set

C 192.168.10.0/24 is directly connected, FastEthernet0/0

C 192.168.110.0/24 is directly connected, FastEthernet0/1

R 192.168.120.0/24 [120/1] via 192.168.10.2, 00:00:01, FastEthernet0/0
```

Router 2

```
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

C    192.168.10.0/24 is directly connected, FastEthernet0/0

R    192.168.110.0/24 [120/1] via 192.168.10.1, 00:00:11, FastEthernet0/0

C    192.168.120.0/24 is directly connected, FastEthernet0/1
```

Tes koneksi (ping) dari PC1 ke PC4.

```
C:\-ping 192.163.120.4

Pinging 193.168.120.4 with 32 bytes of data:

Reply from 192.168.120.4: bytes=32 time=2ms TTL=126

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

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

Reply from 192.168.120.4: bytes=32 time=lims 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 = 1ims, Average = 3ms
```

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

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/2.
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
```

Penerapan Access List pada Interface Router 1.

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/1
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 Router 1.

```
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #int fa0/1
Router(config-if) #ip access-group 10 out
Router(config-if) #^2
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
```

Konfigurasi Access List pada Ethernet 1.

```
router rip
network 192.168.10.0
network 192.168.110.0

ip classless

ip flow-export version 9

decess-list 10 permit 192.168.0.0 0.0.255.255

line con 0
line con 0
line vty 0 4
login

decess-list 10 permit 192.168.0.0 0.0.255.255
```

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 193.168.120.3: bytes=32 time<lms TTL=126

Reply from 192.168.120.3: bytes=32 time=lms TTL=126

Reply from 192.168.120.3: bytes=32 time=llms TTL=126

Reply from 193.168.120.3: bytes=32 time=llms 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 = 13ms, Average = 6ms
```

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=128

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=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 = Oms, Maximum = 24ms, Average = 6ms
```

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) **2
Router*
*SYS-5-CONFIG_I: Configured from console by console
```

Penerapan Access List ke interface [Ethernet 1] pada Router 1.

```
Router#conf term
Enter configuration commands, one per line. End with CNTL/2.
Router(config)#int fa0/1
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.

```
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),
```

Tes koneksi dari PC4 ke PC1 dan PC2.

```
Dinging 192.168.110.3 with 32 bytes of data:

Reply from 192.168.110.3: bytes=32 time=5mm TTL=126

Reply from 192.168.110.3: bytes=32 time=15mm TTL=126

Reply from 192.168.110.3: bytes=32 time=15mm TTL=126

Reply from 192.168.110.3: bytes=32 time=15mm 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 = 15ms, Average = 7ms

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<1mm TTL=126

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

Reply from 192.168.110.4: bytes=32 time=12mm TTL=126

Reply from 192.168.110.4: bytes=32 time=12mm TTL=126

Ping statistics for 192.168.110.4: bytes=32 time=2mm TTL=126

Ping statistics for 192.168.110.4: bytes=32 time=2mm TTL=126

Ping statistics for 192.168.110.4: bytes=32 time=2mm TTL=126

Mapproximate round trip times in milli-seconds:

Hinimum = 0ms, Maximum = 12ms, Average = 3ms
```

Kegiatan 2. Konfigurasi Extended Access List

