

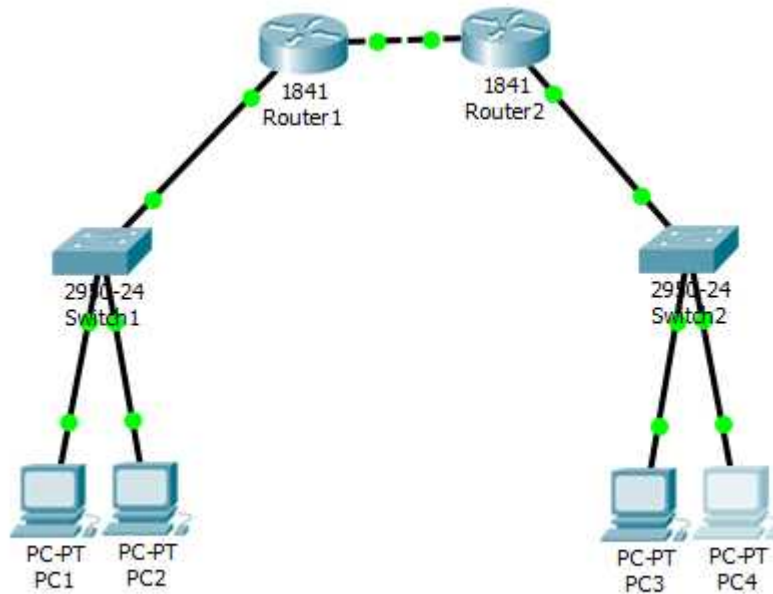
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# **KEGIATAN PRAKTIKUM JARINGAN KOMPUTER**

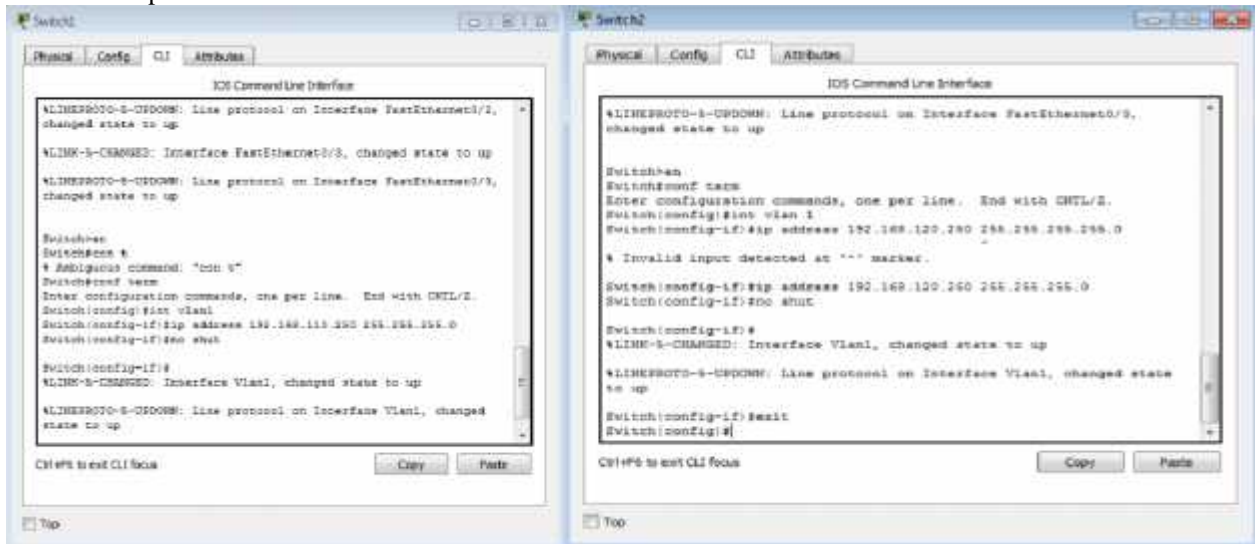
## **MODUL 8**

## KEGIATAN 1.

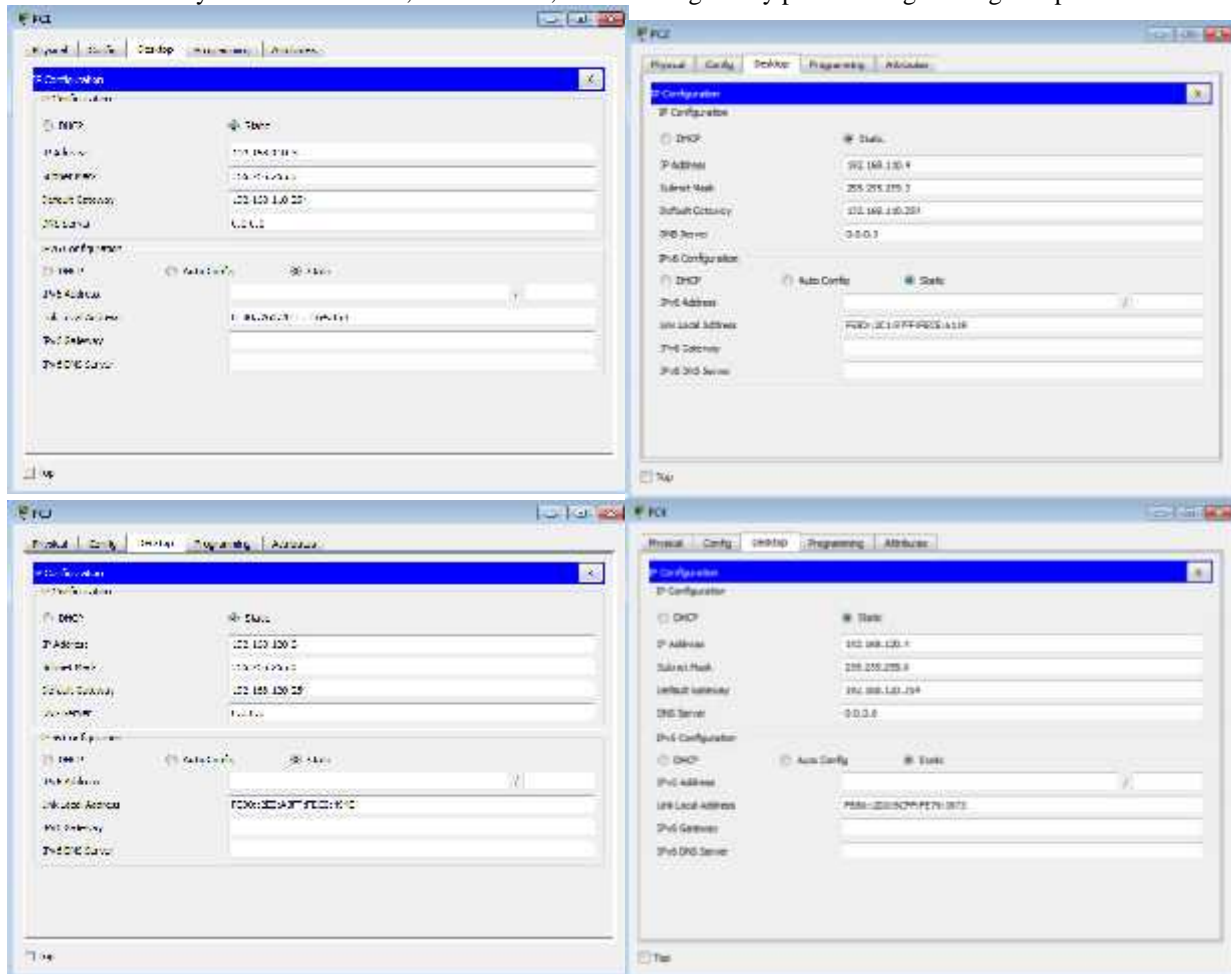
1. Desain jaringan :



3. Khusus untuk Switch1 dan Switch2 berikan alamat IP untuk digunakan sebagai default gateway bagi semua komputer.



4. Berikutnya berikat alamat IP, subnet mask, dan default gateway pada masing-masing computer.



7. Routing protocol RIP pada kedua jaringan.

```
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
```

8. pada Router1 berikan network ID 192.168.110.0 dan 192.168.10.0 untuk digunakan sebagai jalur routing. Sedangkan pada Router2 diberikan network ID 192.168.120.0 dan 192.168.20.0 untuk digunakan sebagai jalur routing.

```
Router(config)#router rip
Router(config-router)#network 192.168.120.0
Router(config-router)#network 192.168.10.0
Router(config-router)#network 192.168.10.0
Router(config-router)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

9. Lakukan pengecekan table dengan menggunakan perintah “show ip route”

```

Router#show ip route
Codes: C - connected, I - static, E - EIGRP, R - RIP, M - mobile, B - BGP
       O - OSPF, 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, S -
       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, FastEthernet0/1
C    192.168.110.0/24 is directly connected, FastEthernet0/0

Router#show ip route
Codes: C - connected, I - static, E - EIGRP, R - RIP, M - mobile, B - BGP
       O - OSPF, 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, S -
       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
C    192.168.120.0/24 is directly connected, FastEthernet0/1

```

10. Lakukan tes koneksi dari PC1 ke PC4 dengan menggunakan perintah Ping.

```

C:\>ping 192.168.120.4

Pinging 192.168.120.4 with 32 bytes of data:

Reply from 192.168.110.254: Destination host unreachable.
Reply from 192.168.110.254: Destination host unreachable.
Reply from 192.168.110.254: Destination host unreachable.
Reply from 192.168.110.254: Destination host unreachable.

Ping statistics for 192.168.120.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

```

11. Tentukan access-list yang akan diterapkan dalam jaringan.

```

Router#conf term
Enter 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

```

12. Terapkan Access List ke interface [Router1].

```

Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int e1

% Invalid input detected at '^' marker.

Router(config)#Interface FastEthernet0/1
Router(config-if)#ip access-group 10 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

```

14. Lihat konfigurasi Access List pada Router1.

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

15. Lihat konfigurasi Access List pada Ethernet1 dengan perintah “*show running-config*”

```

router# running config
Building configuration...

Current configuration : 896 bytes
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
!
ip nat
no ipns conf
!
!
!

ip classless
ip http export version 2

access-list 10 permit 192.168.3.0 0.0.0.255 255.255.

...

line con 0
line aux 0
line vty 0 4
login
...

end

```

16. Lakukan tes koneksi dua arah antara PC3 dengan PC1 yang berada pada jaringan berbeda dengan menggunakan perintah Ping.

```
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
|
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#Interface FastEthernet0/1
Router(config-if)#ip access-group 20 out
Router(config-if)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
|
```

20. Lakukan tes koneksi dari PC3 yang berada pada jaringan 192.168.120.0 ke PC1 dan PC2 yang ada pada jaringan 192.168.110.0

ping dari PC3 ke PC1

```
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),
```

ping dari PC3 ke PC2

```
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),
```

21. Lakukan tes koneksi dari PC4 yang berada pada jaringan 192.168.120.0 ke PC1 dan PC2 yang berada pada jaringan 192.168.110.0

ping dari PC4 ke PC1

```
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),
```

ping dari PC4 ke PC2

```
C:\>ping 192.168.110.4

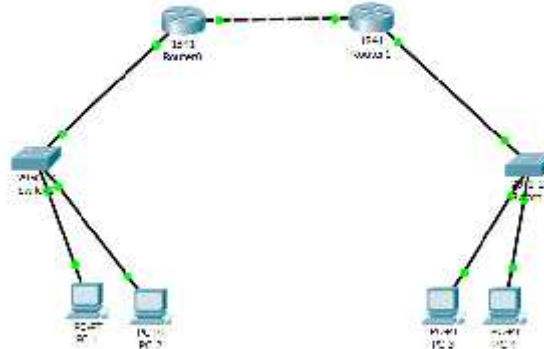
Pinging 192.168.110.4 with 32 bytes of data:

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),
```



## KEGIATAN 2.



Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
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)#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

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 any
^
% Invalid input detected at '^' marker.

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 fa0/1
Router(config-if)#ip access-group 100 in
Router(config-if)#exit
Router(config)#
```

Ctrl+F6 to exit CLI focus

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