Nama : Dandi Katerpilarifai

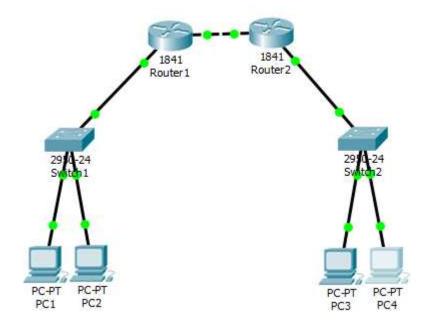
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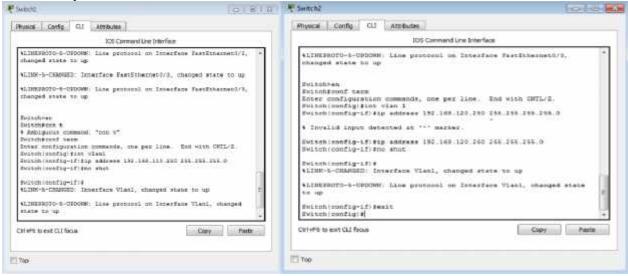
## KEGIATAN PRAKTIKUM JARINGAN KOMPUTER MODUL 8

## **KEGIATAN 1.**

1. Desain jaringan:



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



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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) #networ 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"

```
connected, I stance, I INSE, E RIF, K mobs e,
                                                                     Codes: D. connected, A. stenic, I. 1989, R. R.Y. M. monile.
11 1144
                                                                     B - BCP
       II KIERP, EX KORP external, D COPF, IA COPF inter
                                                                             D - EIGHP, EX - EIGHP curernal, 0 - OSOF, IA - OSPF inter
       Nº GOPT NOSE external type 1, NZ MODE NOCE external
                                                                            NT (CP) 900A external type ", b/ 100F/ NCSA external
                                                                     - ALLe 2
      El - OSPF enternal type 1, E2 - OSPF enternal type 2, E -
                                                                            E1 - GERF emternal type 1, E2 - OSFF emternal type 3, 5 -
                                                                     ECD
       1 - IS-IS, D1 - IS-IS level-1, D2 - IS-IS level-3, 1a -
                                                                             _ - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, is -
IS-IS inter area

    4 - condidate defeato, O - per-escr statie reste, e - ODA
    5 - periodio desnibeded statie rocte

                                                                            * - candidate default, T - per-user static route, a - OER. F - periodic develoaded static route
Calebray of lest resurt is not set
                                                                     Sateway of last resort to not set
     192.188.10.3/24 is ciredily connected, FastE.bennet3/1
                                                                          192.168.10.0/20 is directly connected, FostEthernet3/0
     192.150.110.0/24 is directly connected, PastEthernetC-O
                                                                          192.168.120.0/24 is directly commerced, FastEthermetO/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.

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 el

* 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"

```
knowerset rearing conting
                                                                            spanning tree more prest
Building configuration ...
Carrent configuration . 586 bytes
no corvice timestamps log datetime mace
                                                                           Interface FastEthernet0/0
ip address 182.168.110.284 288.288.286.0
no service timestamps debug datetime meet
no service passoord-amonyotim.
                                                                             duplex auto
                                                                             speed auto
hostnone Bouner
                                                                           interface FastEthernet0/1
                                                                             ip address 192.168.10.1 288.288.288.0
                                                                             donless auto-
                                                                             speed auto
                                                                           interface Viani
                                                                             no ip address
12 000
                                                                             ahutdosn
no ipvs cof
                                                                            nctwork 192.168.10.0
network 192.168.110.0
up classiess
up tiow emport wersion 3
Acress 1186 10 permin 192 168 9 9 9 9 255 255
line con 0
line aux 0
line vty 0 4
locia
```

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.**

