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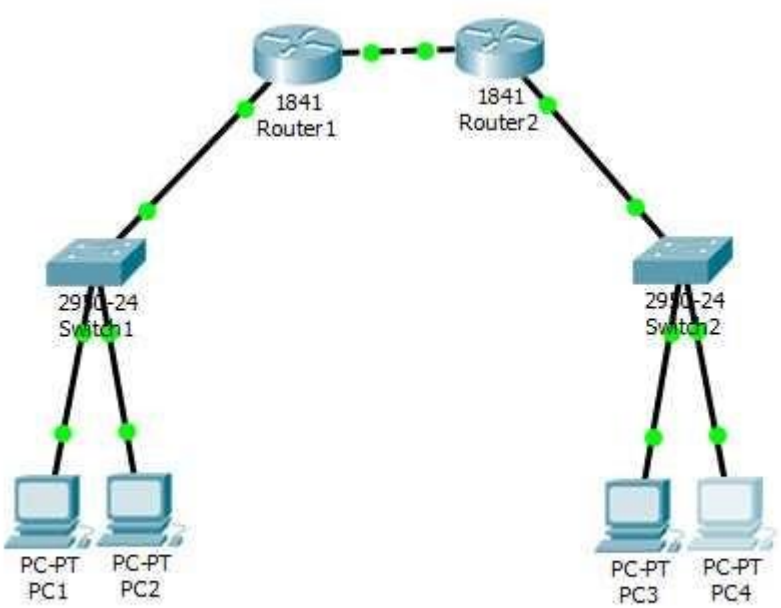
NIM : L200170170
Kelas : D

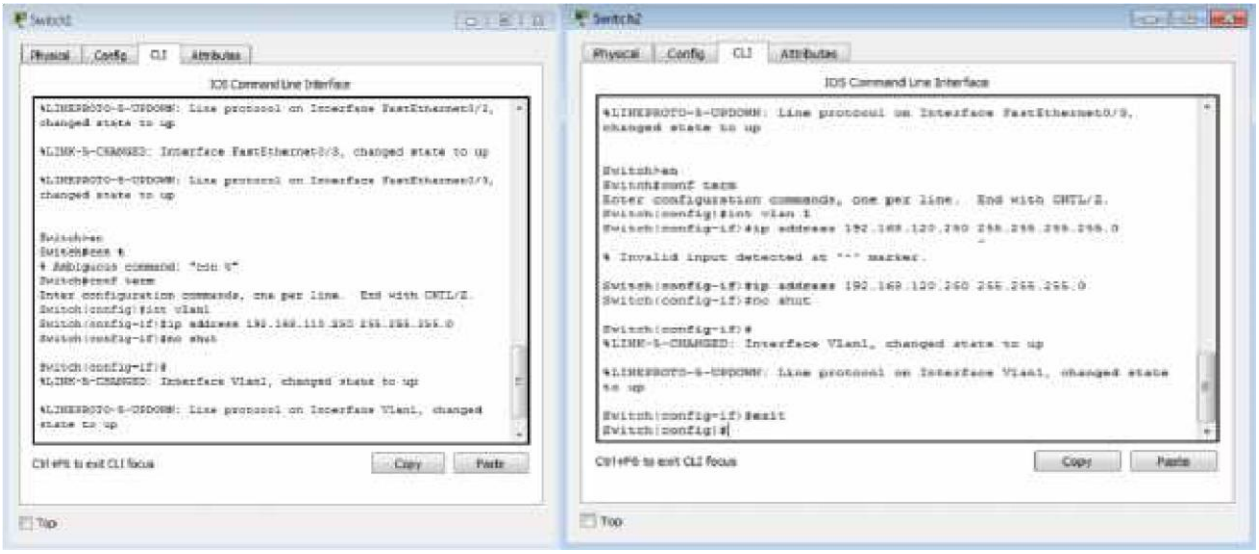
KEGIATANPRAKTIKUMJARINGANKOMPUTER MODUL8

KEGIATAN 1.

1. Desain jaringan :

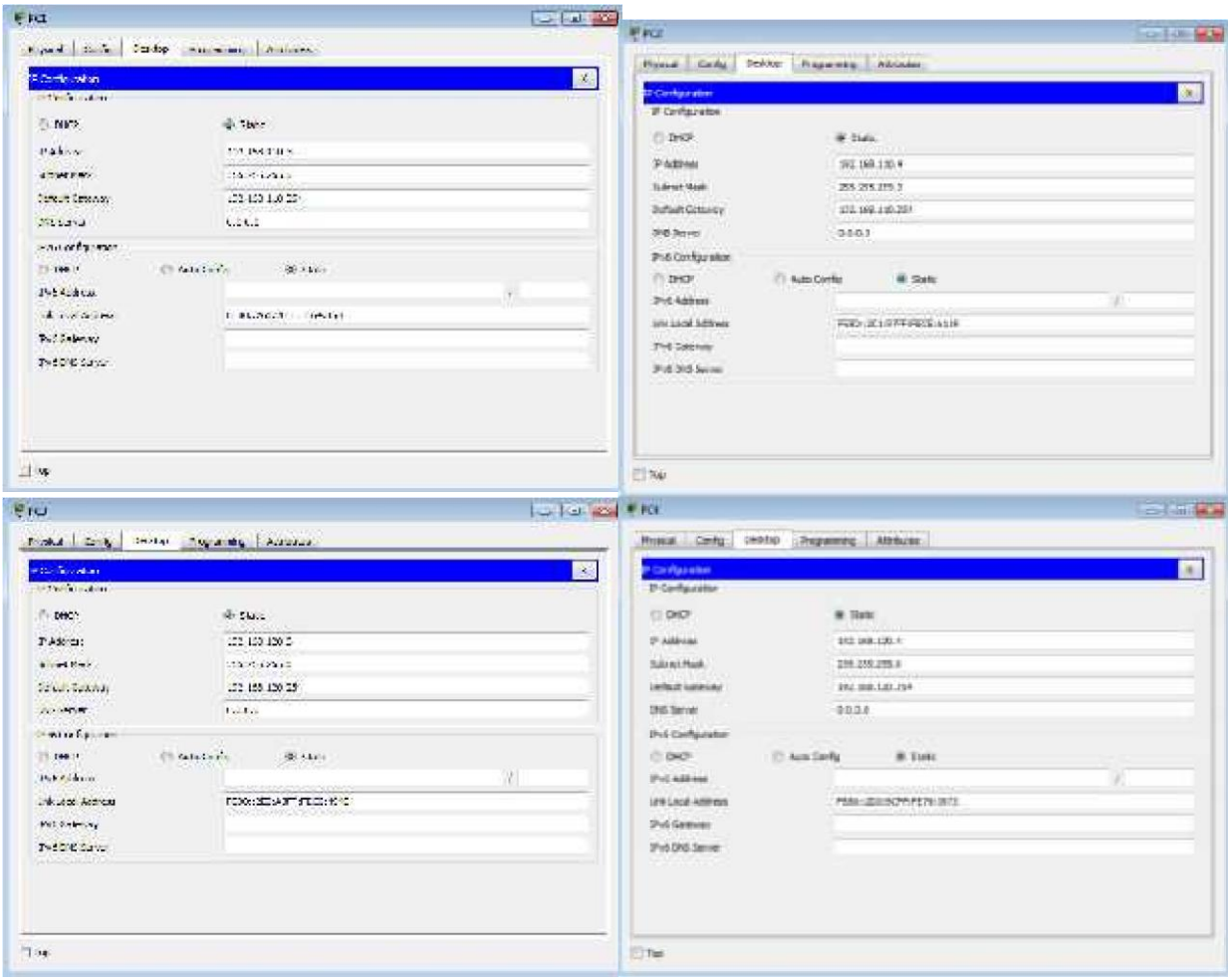


3. Khusus untuk Switch1 dan Switch2 berikan alamat IP untuk digunakan sebagai default gateway bagi semua komputer.



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

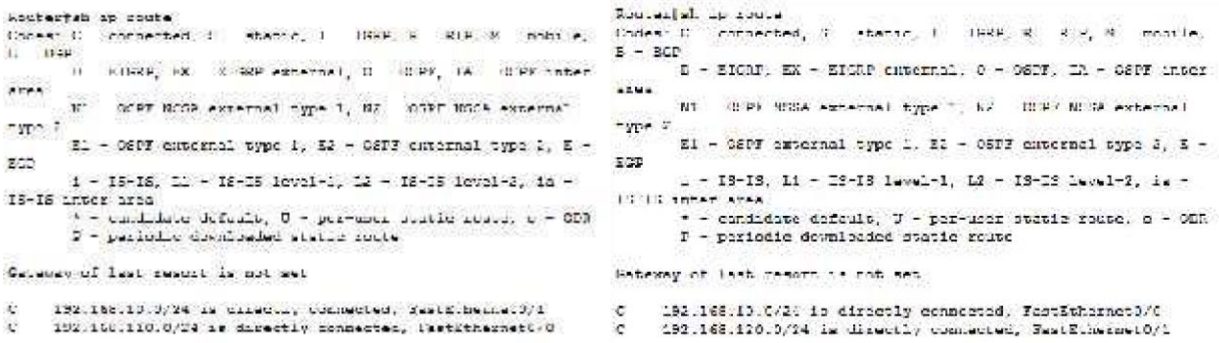
```
Router(config)#router rip
Router(config-router)#network 192.168.120.0
Router(config-router)#networ 192.168.10.0
Router(config-router)#network 192.168.10.0
Router(config-router)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
```



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.
9. Lakukan pengecekan table dengan menggunakan perintah *"show ip route"*



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"***

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

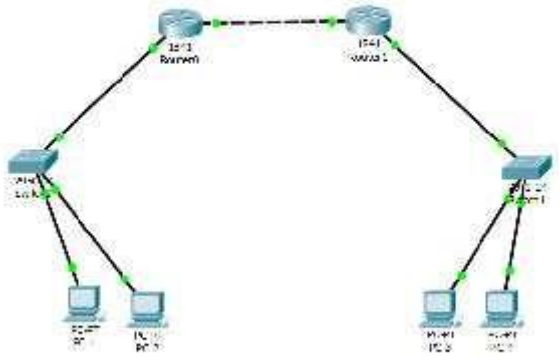
```
C:\>ping 192.168.110.4

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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