

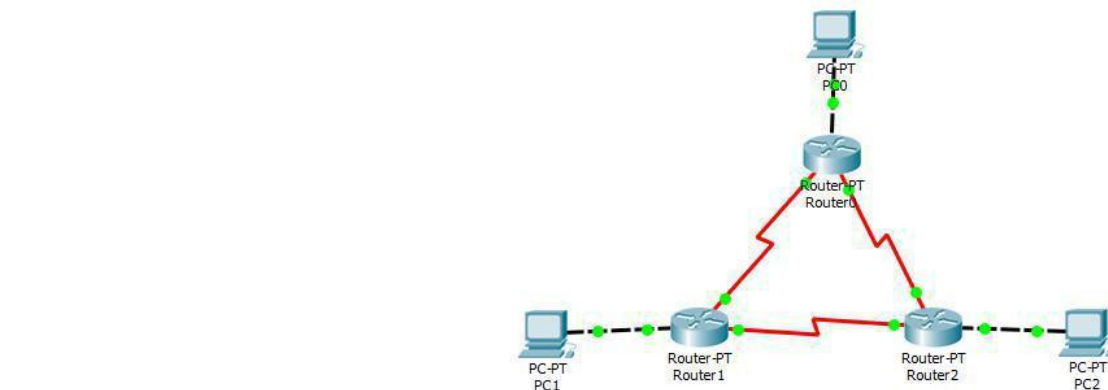
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**Modul** :VI

### **A.KEGIATANI&KEGIATAN2STATICROUTING**

Staticrouting(RoutingStatis)adalahsebuahrouteryangmemilikitabelrouting statikyangdisetingsecaramanualolehparaadministratorjaringan.Routingstatic pengaturanroutingpalingsederhanayangdapatdilakukanpadajaringankomputer

LangkahKegiatan:

1. BuatTopologisepertiberikutmenggunakanpackettracerinidenganmenggunakan routergeneric:



2. Berinamamasingmasingrouter,**router0:eagle,router1:puma,router2:tiger**
3. KonfigurasiEthernetdanSerialyangterkoneksikabelpadamasingmasingrouter denganketentuansepertidiMODUL-7
4. KonfigurasimasingmasingPCdenganGatewaypadamasinggatewayrouter. Sepertiketentuanpadamodulyakni:
  - Leo:PC0  
DenganIP172.21.10.1gateway172.21.10.10
  - Aries:PC1  
DenganIP172.21.20.2gateway172.21.20.20
  - Virgo:PC2  
DenganIP172.21.30.3gateway172.21.2030

5. Lakukan PING pada masing-masing PC ke masing-masing Gateway.

```
C:\>ping 172.21.20.20

Pinging 172.21.20.20 with 32 bytes of data:

Reply from 172.21.20.20: bytes=32 time<1ms TTL=255
Reply from 172.21.20.20: bytes=32 time<1ms TTL=255
Reply from 172.21.20.20: bytes=32 time<1ms TTL=255
Reply from 172.21.20.20: bytes=32 time<1ms TTL=255

Ping statistics for 172.21.20.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

**(Contoh Apabila Berhasil, dari PC1 ke Gatewaynya)**

6. Padahal kini belum ada ROUTING STATIC dan apabila dijalankan ping dari PC1 ke PC0 atau PC2 atau sebaliknya maka akan gagal makaita harus konfigurasi STATIC ROUTING dengan menembakkan next hop dan network pada router.

7. Konfigurasi STATIC Routing pada masing-masing router.

- **Router0 (Next HOP Network dan Serial Router1 & Router2)**

```
ip route 172.21.20.0 255.255.255.0 172.21.1.2
Router(config)#
```

```
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.2.3
Router(config)#
```

- **Router1 (Next HOP Network dan Serial Router0 & 2)**

```
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)#
```

```
ip route 172.21.30.0 255.255.255.0 172.21.3.3
Router(config)#
```

- **Router2 (Next HOP Network dan Serial Router0 & 1)**

```
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.2
Router(config)#
```

```
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#
```

## 8. Setelah Konfigurasi Selesai, Ujicoba dengan PING dari PC Aries ke Leo dan Virgo

```
C:\>ping 172.21.10.1

Pinging 172.21.10.1 with 32 bytes of data:

Reply from 172.21.10.1: bytes=32 time=2ms TTL=126
Reply from 172.21.10.1: bytes=32 time=2ms TTL=126
Reply from 172.21.10.1: bytes=32 time=3ms TTL=126
Reply from 172.21.10.1: bytes=32 time=1ms TTL=126

Ping statistics for 172.21.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 2ms
```

**(ARIESKELEO)**

```
C:\>ping 172.21.30.3

Pinging 172.21.30.3 with 32 bytes of data:

Reply from 172.21.30.3: bytes=32 time=1ms TTL=126
Reply from 172.21.30.3: bytes=32 time=3ms TTL=126
Reply from 172.21.30.3: bytes=32 time=2ms TTL=126
Reply from 172.21.30.3: bytes=32 time=4ms TTL=126

Ping statistics for 172.21.30.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 4ms, Average = 2ms
```

**(ARIESKEVIRGO)**

## 9. IPROUTE

```
172.21.0.0/24 is subnetted, 5 subnets
C    172.21.1.0 is directly connected, Serial2/0
C    172.21.2.0 is directly connected, Serial3/0
C    172.21.10.0 is directly connected, FastEthernet0/0
S    172.21.20.0 [1/0] via 172.21.1.2
S    172.21.30.0 [1/0] via 172.21.2.3
```

**(ROUTER0)**

```
172.21.0.0/24 is subnetted, 5 subnets
C    172.21.1.0 is directly connected, Serial2/0
C    172.21.3.0 is directly connected, Serial3/0
S    172.21.10.0 [1/0] via 172.21.1.1
C    172.21.20.0 is directly connected, FastEthernet0/0
S    172.21.30.0 [1/0] via 172.21.3.3
```

**(ROUTER1)**

```
172.21.0.0/24 is subnetted, 5 subnets
C    172.21.2.0 is directly connected, Serial3/0
C    172.21.3.0 is directly connected, Serial2/0
S    172.21.10.0 [1/0] via 172.21.2.1
S    172.21.20.0 [1/0] via 172.21.3.2
C    172.21.30.0 is directly connected, FastEthernet0/0
```

**(ROUTER2)**

## **KESIMPULAN**

*Apabila kita ingin mengunjungi sebuah jaringan yang berbeda router atau HOP maka kita harus membutuhkan STATIC ROUTING yang dimana kita harus mengkonfigurasi dari masing-masing router yang menembakan atau konfigurasi routing dengan mengisi next hop dan network pada hop yang ingin dikunjungi.*