

LAPORAN TUGAS RIP MANAJEMEN JARINGAN KOMPUTER

Dosen Pengampu : Toga Aldila Cideratama, S.ST., M.Cs.



Oleh :

Laora Imelda Arode

2031730086

MI 2A

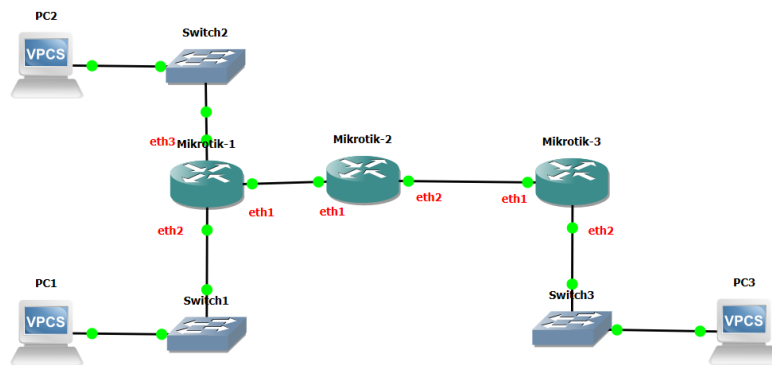
D3 MANAJEMEN INFORMATIKA

PSDKU POLITEKNIK NEGERI MALANG DI KOTA KEDIRI

2022

TUGAS RIP

- Topologi jaringan



- Konfigurasi ip address

Router1 :

```
[admin@MikroTik] > system identity set name=laora_R1
[admin@laora_R1] >
[admin@laora_R1] > ip address add address=192.168.1.1/24 interface=ether1
[admin@laora_R1] > ip address add address=192.168.10.1/24 interface=ether2
[admin@laora_R1] > ip address add address=192.168.20.1/24 interface=ether3
[admin@laora_R1] >
```

Router2 :

```
[admin@MikroTik] > system identity set name=laora_R2
[admin@laora_R2] >
[admin@laora_R2] > ip address add address=192.168.1.2/24 interface=ether1
[admin@laora_R2] > ip address add address=192.168.2.1/24 interface=ether2
[admin@laora_R2] >
[admin@laora_R2] >
```

Router3:

```
[admin@MikroTik] > system identity set name=laora_R3
[admin@laora_R3] >
[admin@laora_R3] > ip address add address=192.168.2.2/24 interface=ether1
[admin@laora_R3] > ip address add address=192.168.30.1/24 interface=ether2
[admin@laora_R3] >
```

- Konfigurasi RIP pada router

Router1 :

```
[admin@laora_R1] >
[admin@laora_R1] > routing rip interface add interface=ether1 send=v1 receive=v1
[admin@laora_R1] > routing rip network add network=192.168.1.0/24
[admin@laora_R1] > routing rip network add network=192.168.10.0/24
[admin@laora_R1] > routing rip network add network=192.168.20.0/24
[admin@laora_R1] >
```

Router2 :

```
[admin@laora_R2] > routing rip interface add interface=ether1 send=v1 receive=v1
[admin@laora_R2] > routing rip interface add interface=ether2 send=v1 receive=v1
[admin@laora_R2] > routing rip network add network=192.168.1.0/24
[admin@laora_R2] > routing rip network add network=192.168.2.0/24
[admin@laora_R2] >
```

Router3 :

```
[admin@laora_R3] >
[admin@laora_R3] > routing rip interface add interface=ether1 send=v1 receive=v1
[admin@laora_R3] > routing rip network add network=192.168.2.0/24
[admin@laora_R3] > routing rip network add network=192.168.30.0/24
[admin@laora_R3] >
```

- Konfigurasi Neighbor pada router

Router1 :

```
[admin@laora_R1] >
[admin@laora_R1] > routing rip neighbor add address=192.168.1.2
[admin@laora_R1] >
```

Router2 :

```
[admin@laora_R2] >
[admin@laora_R2] > routing rip neighbor add address=192.168.1.1
[admin@laora_R2] > routing rip neighbor add address=192.168.2.2
[admin@laora_R2] >
```

Router3 :

```
[admin@laora_R3] >
[admin@laora_R3] > routing rip neighbor add address=192.168.2.1
[admin@laora_R3] >
```

- Cek Routing Table

Router1 :

```
[admin@laora_R1] > ip route print
Flags: X - disabled, A - active, D - dynamic, C - connect, S - static, r - rip, b - bgp, o - ospf, m - mme, B - blackhole, U - unreachable, P - prohibit
# DST-ADDRESS      PREF-SRC  GATEWAY      DISTANCE
0 ADC 192.168.1.0/24  192.168.1.1  ether1        0
1 ADr 192.168.2.0/24  192.168.1.2  192.168.1.2  120
2 ADC 192.168.10.0/24 192.168.10.1 ether2        0
3 ADC 192.168.20.0/24 192.168.20.1 ether3        0
4 ADr 192.168.30.0/24 192.168.1.2  192.168.1.2  120
5 ADC 192.168.88.0/24 192.168.88.1 ether1        0
[admin@laora_R1] > routing rip route print
Flags: C - connect, S - static, R - rip, O - ospf, B - bgp
# DST-ADDRESS      GATEWAY      FROM          METRIC TIMEOUT
0 R 192.168.1.0/24  192.168.1.2  192.168.1.2  1
1 R 192.168.2.0/24  192.168.1.2  192.168.1.2  2 2m46s
2 R 192.168.10.0/24 192.168.1.2  192.168.1.2  1
3 R 192.168.20.0/24 192.168.1.2  192.168.1.2  1
4 R 192.168.30.0/24 192.168.1.2  192.168.1.2  3 2m46s
[admin@laora_R1] >
```

Router2 :

```
[admin@laora_R2] > ip route print
Flags: X - disabled, A - active, D - dynamic, C - connect, S - static, r - rip, b - bgp, o - ospf, m - mme, B - blackhole, U - unreachable, P - prohibit
# DST-ADDRESS      PREF-SRC  GATEWAY      DISTANCE
0 ADC 192.168.1.0/24 192.168.1.2  ether1        0
1 ADC 192.168.2.0/24 192.168.2.1  ether2        0
2 ADr 192.168.10.0/24 192.168.1.1  192.168.1.1  120
3 ADr 192.168.20.0/24 192.168.1.1  192.168.1.1  120
4 ADr 192.168.30.0/24 192.168.2.2  192.168.2.2  120
5 ADC 192.168.88.0/24 192.168.88.1 ether1        0
[admin@laora_R2] > routing rip route print
Flags: C - connect, S - static, R - rip, O - ospf, B - bgp
# DST-ADDRESS      GATEWAY      FROM          METRIC TIMEOUT
0 R 192.168.1.0/24  192.168.1.2  192.168.1.2  1
1 R 192.168.2.0/24  192.168.2.1  192.168.2.1  1
2 R 192.168.10.0/24 192.168.1.1  192.168.1.1  2 2m35s
3 R 192.168.20.0/24 192.168.1.1  192.168.1.1  2 2m35s
4 R 192.168.30.0/24 192.168.2.2  192.168.2.2  2 2m37s
[admin@laora_R2] >
```

Router3 :

```
[admin@laora_R3] > ip route print
Flags: X - disabled, A - active, D - dynamic, C - connect, S - static, r - rip, b - bgp, o - ospf, m - mme, B - blackhole, U - unreachable, P - prohibit
# DST-ADDRESS      PREF-SRC  GATEWAY      DISTANCE
0 ADr 192.168.1.0/24 192.168.2.1  192.168.2.1  120
1 ADC 192.168.2.0/24 192.168.2.2  ether1        0
2 ADr 192.168.10.0/24 192.168.2.1  192.168.2.1  120
3 ADr 192.168.20.0/24 192.168.2.1  192.168.2.1  120
4 ADC 192.168.30.0/24 192.168.30.1 ether2        0
5 ADC 192.168.88.0/24 192.168.88.1 ether1        0
[admin@laora_R3] > routing rip route print
Flags: C - connect, S - static, R - rip, O - ospf, B - bgp
# DST-ADDRESS      GATEWAY      FROM          METRIC TIMEOUT
0 R 192.168.1.0/24  192.168.2.1  192.168.2.1  2 2m53s
1 R 192.168.2.0/24  192.168.2.2  192.168.2.2  1
2 R 192.168.10.0/24 192.168.2.1  192.168.2.1  3 2m53s
3 R 192.168.20.0/24 192.168.2.1  192.168.2.1  3 2m53s
4 R 192.168.30.0/24 192.168.30.1 192.168.30.1 1
[admin@laora_R3] >
```

- **Test Ping PC1 ke PC2 & PC3**

```
NAME      : PC1[1]
IP/MASK    : 192.168.10.2/24
GATEWAY    : 192.168.10.1
DNS        :
MAC        : 00:50:79:66:68:00
LPORT      : 10024
RHOST:PORT : 127.0.0.1:10025
MTU:       : 1500

PC1> ping 192.168.20.2
84 bytes from 192.168.20.2 icmp_seq=1 ttl=63 time=55.589 ms
84 bytes from 192.168.20.2 icmp_seq=2 ttl=63 time=2.666 ms
84 bytes from 192.168.20.2 icmp_seq=3 ttl=63 time=4.279 ms
84 bytes from 192.168.20.2 icmp_seq=4 ttl=63 time=3.546 ms
84 bytes from 192.168.20.2 icmp_seq=5 ttl=63 time=2.777 ms

PC1> ping 192.168.30.2
84 bytes from 192.168.30.2 icmp_seq=1 ttl=61 time=50.173 ms
84 bytes from 192.168.30.2 icmp_seq=2 ttl=61 time=8.949 ms
84 bytes from 192.168.30.2 icmp_seq=3 ttl=61 time=9.320 ms
84 bytes from 192.168.30.2 icmp_seq=4 ttl=61 time=9.422 ms
84 bytes from 192.168.30.2 icmp_seq=5 ttl=61 time=8.694 ms

PC1> █
```

- **Test ping PC2 ke PC1 & PC3**

```
NAME      : PC2[1]
IP/MASK    : 192.168.20.2/24
GATEWAY    : 192.168.20.1
DNS        :
MAC        : 00:50:79:66:68:01
LPORT      : 10022
RHOST:PORT : 127.0.0.1:10023
MTU:       : 1500

PC2> ping 192.168.10.2
84 bytes from 192.168.10.2 icmp_seq=1 ttl=63 time=28.458 ms
84 bytes from 192.168.10.2 icmp_seq=2 ttl=63 time=3.478 ms
84 bytes from 192.168.10.2 icmp_seq=3 ttl=63 time=3.244 ms
84 bytes from 192.168.10.2 icmp_seq=4 ttl=63 time=13.578 ms
84 bytes from 192.168.10.2 icmp_seq=5 ttl=63 time=51.087 ms

PC2> ping 192.168.30.2
84 bytes from 192.168.30.2 icmp_seq=1 ttl=61 time=54.641 ms
84 bytes from 192.168.30.2 icmp_seq=2 ttl=61 time=21.735 ms
84 bytes from 192.168.30.2 icmp_seq=3 ttl=61 time=28.323 ms
84 bytes from 192.168.30.2 icmp_seq=4 ttl=61 time=61.179 ms
84 bytes from 192.168.30.2 icmp_seq=5 ttl=61 time=89.871 ms

PC2> █
```

- **Test ping PC3 ke PC1 & PC2**

```
NAME      : PC3[1]
IP/MASK    : 192.168.30.2/24
GATEWAY    : 192.168.30.1
DNS        :
MAC        : 00:50:79:66:68:02
LPORT      : 10026
RHOST:PORT : 127.0.0.1:10027
MTU:       : 1500

PC3> ping 192.168.10.2
84 bytes from 192.168.10.2 icmp_seq=1 ttl=61 time=16.722 ms
84 bytes from 192.168.10.2 icmp_seq=2 ttl=61 time=86.126 ms
84 bytes from 192.168.10.2 icmp_seq=3 ttl=61 time=43.409 ms
84 bytes from 192.168.10.2 icmp_seq=4 ttl=61 time=72.317 ms
84 bytes from 192.168.10.2 icmp_seq=5 ttl=61 time=58.034 ms

PC3> ping 192.168.20.2
84 bytes from 192.168.20.2 icmp_seq=1 ttl=61 time=38.870 ms
84 bytes from 192.168.20.2 icmp_seq=2 ttl=61 time=52.237 ms
84 bytes from 192.168.20.2 icmp_seq=3 ttl=61 time=12.376 ms
84 bytes from 192.168.20.2 icmp_seq=4 ttl=61 time=38.652 ms
84 bytes from 192.168.20.2 icmp_seq=5 ttl=61 time=45.395 ms

PC3> █
```