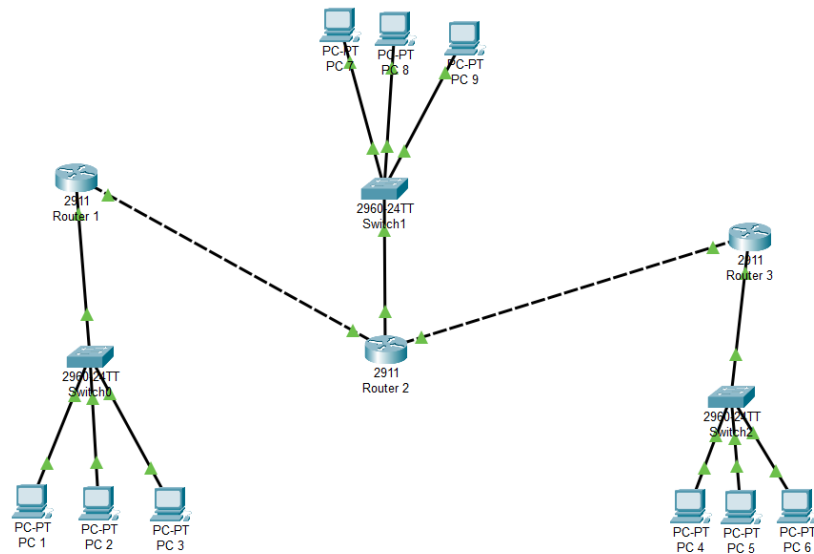NAMA : ADES FITRIYA KHARISMA
NIM : 09010282327023
KELAS : MI3A

Melihat Tabel Routing R1

```
R1#show ip route
Tulis hasil yang anda dapat
```

```
09010282327023_R1#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, 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, E - EGP
       i - 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

     10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
C       10.10.10.0/30 is directly connected, GigabitEthernet0/1
L       10.10.10.1/32 is directly connected, GigabitEthernet0/1
S       10.20.10.0/30 [1/0] via 10.10.10.2
     192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.2.0/24 is directly connected, GigabitEthernet0/0
L       192.168.2.1/32 is directly connected, GigabitEthernet0/0
S     192.168.20.0/24 [1/0] via 10.10.10.2
S     192.168.40.0/24 [1/0] via 10.10.10.2
```

Melihat Tabel Routing R2

```
R2#show ip route
Tulis hasil yang anda dapat
```

```
09010282327023_R2#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, 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, E - EGP
       i - 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

     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C        10.10.10.0/30 is directly connected, GigabitEthernet0/1
L        10.10.10.2/32 is directly connected, GigabitEthernet0/1
C        10.20.10.0/30 is directly connected, GigabitEthernet0/2
L        10.20.10.1/32 is directly connected, GigabitEthernet0/2
S     192.168.2.0/24 [1/0] via 10.10.10.1
      192.168.20.0/24 is variably subnetted, 2 subnets, 2 masks
C        192.168.20.0/24 is directly connected, GigabitEthernet0/0
L        192.168.20.1/32 is directly connected, GigabitEthernet0/0
S     192.168.40.0/24 [1/0] via 10.20.10.2
```

Melihat Tabel Routing R3

```
R3#show ip route
Tulis hasil yang anda dapat
```

```
09010282327023_R3#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, 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, E - EGP
       i - 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

     10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
S        10.10.10.0/30 [1/0] via 10.20.10.1
C        10.20.10.0/30 is directly connected, GigabitEthernet0/1
L        10.20.10.2/32 is directly connected, GigabitEthernet0/1
S     192.168.2.0/24 [1/0] via 10.20.10.1
S     192.168.20.0/24 [1/0] via 10.20.10.1
      192.168.40.0/24 is variably subnetted, 2 subnets, 2 masks
C        192.168.40.0/24 is directly connected, GigabitEthernet0/0
L        192.168.40.1/32 is directly connected, GigabitEthernet0/0
```

No	Sumber	Tujuan	Hasil	
			Ya	Tidak
1	PC1	PC2	YA	
		PC3	YA	
		PC4		NO
		PC5		NO
		PC6		NO
		PC7		NO
		PC8		NO
		PC9		NO

No	Sumber	Tujuan	Ya	Tidak
2	PC4	PC1		NO
		PC2		NO
		PC3		NO
		PC5	YA	
		PC6	YA	NO
		PC7		NO
		PC8		NO
		PC9		NO

No	Sumber	Tujuan	Ya	Tidak
3	PC7	PC1		NO
		PC2		NO
		PC3		NO
		PC4		NO
		PC5		NO
		PC7	YA	
		PC8	YA	
		PC9	YA	

Screenshot hasil Ping pada cmd PC:
PC1 -> PC5

```
C:\>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC1 -> PC7

```
C:\>ping 192.168.40.2

Pinging 192.168.40.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.40.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC4 -> PC2

```
C:\>ping 192.168.2.3

Pinging 192.168.2.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.2.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC4 -> PC8

```
C:\>ping 192.168.40.3

Pinging 192.168.40.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.40.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC7 -> PC3

```
C:\>ping 192.168.2.4

Pinging 192.168.2.4 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.2.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC7 -> PC9

```
C:\>ping 192.168.40.4

Pinging 192.168.40.4 with 32 bytes of data:

Reply from 192.168.40.4: bytes=32 time<1ms TTL=128
Reply from 192.168.40.4: bytes=32 time=7ms TTL=128
Reply from 192.168.40.4: bytes=32 time<1ms TTL=128
Reply from 192.168.40.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.40.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 1ms
```

LAPORAN HASIL PRAKTIKUM

Nama   :
Nim   :
Program Studi   :

Judul Percobaan : Melakukan Ping pada PC

Hasil Percobaan :

```
C:\>ping 192.168.40.4

Pinging 192.168.40.4 with 32 bytes of data:

Reply from 192.168.40.4: bytes=32 time<1ms TTL=128
Reply from 192.168.40.4: bytes=32 time=7ms TTL=128
Reply from 192.168.40.4: bytes=32 time<1ms TTL=128
Reply from 192.168.40.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.40.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 1ms
```

Analisis Percobaan : Dari hasil percobaan ada beberapa PC yang tidak bisa dan ada juga bisa. Semua permintaan ping berhasil, menunjukkan adanya respons dari perangkat. Dari 4 paket yang dikirim, seluruhnya diterima kembali (0% packet loss). Waktu round-trip sangat cepat (<1ms), menandakan koneksi yang stabil dan dekat (kemungkinan dalam jaringan lokal yang sama).

Gagal Terhubung :Tidak adanya respons dari perangkat pada alamat ini menunjukkan bahwa perangkat tidak dapat dijangkau melalui jaringan.

Kesimpulan Percobaan :percobaan ini menunjukkan adanya **masalah konektivitas pada perangkat 192.168.20.2**, sementara perangkat 192.168.20.4 berfungsi normal. Perangkat 192.168.20.2 memerlukan investigasi lebih lanjut untuk memastikan penyebab ketidaktersediaan konektivitas, seperti pengecekan fisik, konfigurasi jaringan, atau pengaturan firewall.

**LABORATORIUM JARINGAN KOMPUTER
DAN KOMUNIKASI DATA**