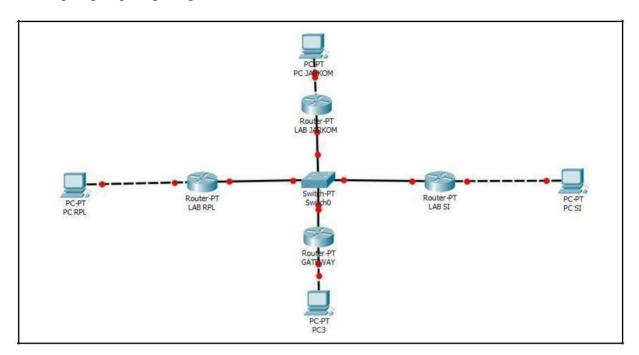
# 1. Buat topologi seperti pada gambar.



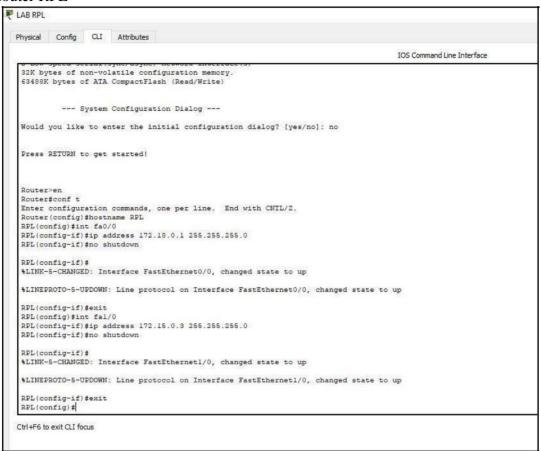
# 2. Konfigurasi semua router a. Router Jarkom

ysical	Config	CLI	Attributes			
					IOS Command Line Interfa	ce
32K by			atile configuration m	mory.		
63488K	bytes o	f ATA	CompactFlash (Read/Wr	te)		
	S	ystem	Configuration Dialog			
Would	you like	to er	ter the initial confi	uration dialog? [yes/no]:	no	
Press	RETURN t	o get	started!			
Router	The state of the s					
	#conf t	ation	commands, one per lin	End with CNTI/2		
			ame JARKOM	. Bild Willi ONID/2.		
	(config)					
JARKOM	(config-	if) #ip	address 172.16.0.1 2	5.255.255.0		
JARKOM	(config-	if)#no	shutdown			
JARKOM	(config-	if)#				
			erface FastEthernet0/	, changed state to up		
%LINEP	ROTO-5-U	PDOWN:	Line protocol on Int	rface FastEthernet0/0, cha	anged state to up	
JARKOM	(config-	if)#ex	it			
JARKOM	(config)	#int f	a1/0			
			address 172.15.0.1 2	5.255.255.0		
JARKOM	(config-	if)#no	shutdown			
JARKOM	(config-	if)#				
%LINK-	5-CHANGE	D: Int	erface FastEthernetl/	, changed state to up		
%LINEP	ROTO-5-U	PDOWN:	Line protocol on Int	rface FastEthernet1/0, cha	anged state to up	
JARKOM	(config-	if)#ex	it			
	(config)					
LIVES 1	exit CLI fo					
ui+ro to	exit CLI TO	Lus				

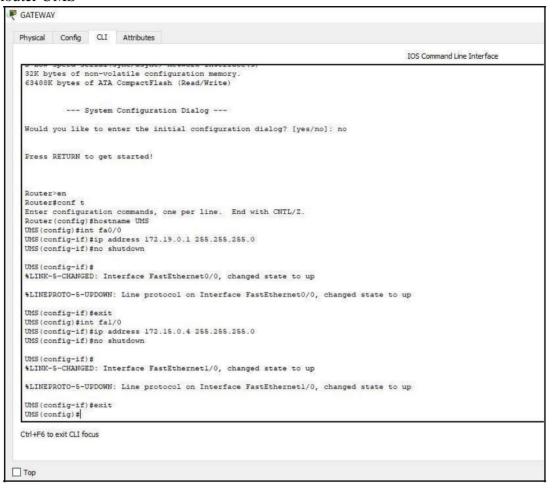
## b. Router SI



## c. Router RPL



## d. Router UMS



3. Konfigurasi routing table pada 4 router

#### a. Router Jarkom

```
JARKOM(config) #router rip

JARKOM(config-router) #network 172.15.0.0

JARKOM(config-router) #networj 172.16.0.0

% Invalid input detected at '^' marker.

JARKOM(config-router) #network 172.16.0.0

JARKOM(config-router) #network 172.17.0.0

JARKOM(config-router) #network 172.18.0.0

JARKOM(config-router) #network 172.18.0.0

JARKOM(config-router) #network 172.19.0.0

JARKOM(config-router) #network 172.19.0.0
```

### b. Router SI

```
SistemInformasi(config) #router rip
SistemInformasi(config-router) #network 172.15.0.0
SistemInformasi(config-router) #network 172.16.0.0
SistemInformasi(config-router) #network 172.17.0.0
SistemInformasi(config-router) #network 172.18.0.0
SistemInformasi(config-router) #network 172.19.0.0
SistemInformasi(config-router) #
```

Ctrl+F6 to exit CLI focus

c. Router RPL

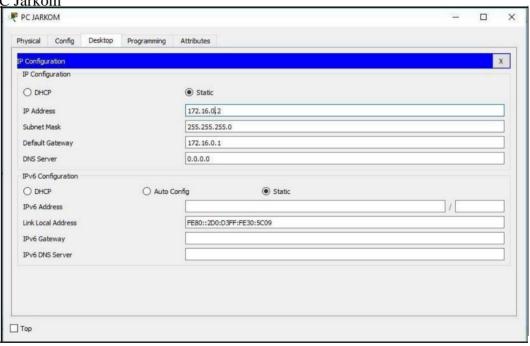
```
RPL(config) #router rip
RPL(config-router) #network 172.15.0.0
RPL(config-router) #network 172.16.0.0
RPL(config-router) #network 172.17.0.0
RPL(config-router) #network 172.18.0.0
RPL(config-router) #network 172.19.0.0
RPL(config-router) #network 172.19.0.0
RPL(config-router) #
```

d. Router UMS

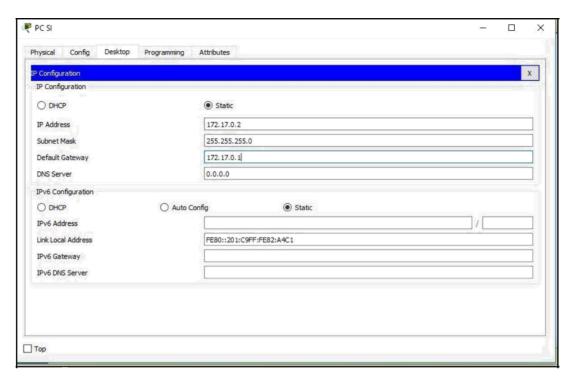
```
UMS(config) #router rip
UMS(config-router) #network 172.15.0.0
UMS(config-router) #network 172.16.0.0
UMS(config-router) #network 172.17.0.0
UMS(config-router) #network 172.18.0.0
UMS(config-router) #network 172.19.0.0
```

4. Konfigurasi IP pada masing- masing PC

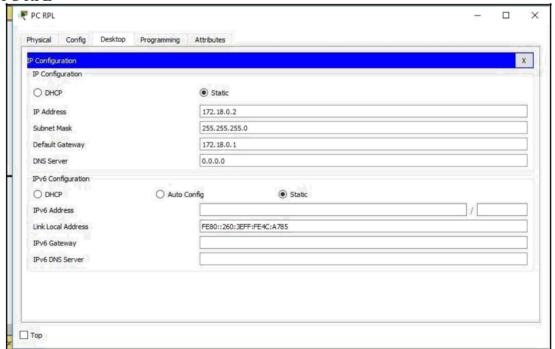
a. P<u>C Jarkom</u>



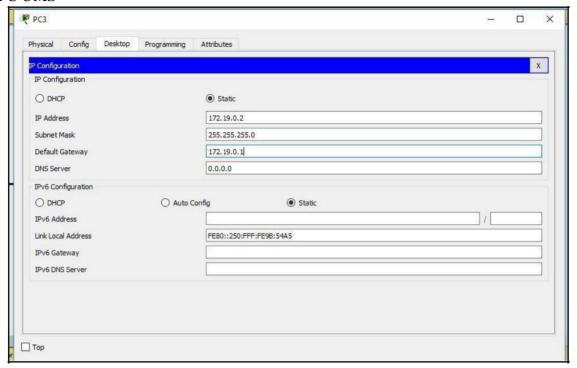
b. PC SI



## c. PC RPL



#### d. PC UMS



2. Lakukan pengujian ICMP request(ping) untuk test koneksi a. PC UMS ke PC Jarkom

```
C:\>ping 172.16.0.2

Pinging 172.16.0.2 with 32 bytes of data:

Reply from 172.16.0.2: bytes=32 time=lms TTL=126

Reply from 172.16.0.2: bytes=32 time=l2ms TTL=126

Reply from 172.16.0.2: bytes=32 time=l2ms TTL=126

Reply from 172.16.0.2: bytes=32 time=l2ms TTL=126

Ping statistics for 172.16.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = lms, Maximum = 12ms, Average = 9ms
```

b. PC UMS ke PC SI

```
C:\>ping 172.18.0.2

Pinging 172.18.0.2 with 32 bytes of data:

Reply from 172.18.0.2: bytes=32 time<1ms TTL=126

Reply from 172.18.0.2: bytes=32 time=15ms TTL=126

Reply from 172.18.0.2: bytes=32 time=19ms TTL=126

Reply from 172.18.0.2: bytes=32 time=12ms TTL=126

Ping statistics for 172.18.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 19ms, Average = 11ms

C:\>
```

```
C:\>ping 172.17.0.2

Pinging 172.17.0.2 with 32 bytes of data:

Reply from 172.17.0.2: bytes=32 time<lms TTL=126

Reply from 172.17.0.2: bytes=32 time=19ms TTL=126

Reply from 172.17.0.2: bytes=32 time=10ms TTL=126

Reply from 172.17.0.2: bytes=32 time=12ms TTL=126

Ping statistics for 172.17.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 19ms, Average = 10ms
```