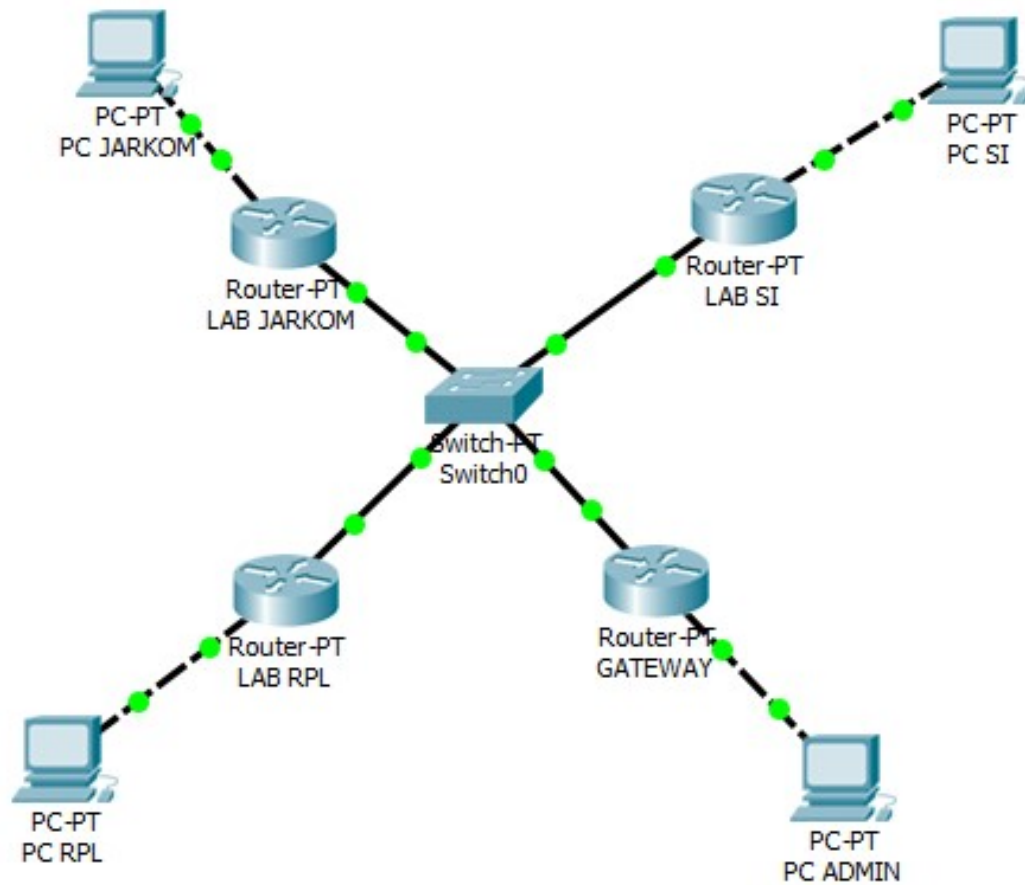


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## 1. Desain jaringan



## 2. Konfigurasi Router Jarkom

```
Router>ENABLE
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa 0/0
Router(config-if)#ip address 172.16.0.1 255.255.255.255
Bad mask /32 for address 172.16.0.1
Router(config-if)#ip address 172.16.0.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

Router(config-if)#int fa 0/1
%Invalid interface type and number
Router(config)#int fa 1/0
Router(config-if)#ip address 172.15.0.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

Router(config-if)#exit
Router(config)#hostname jarkom
jarkom(config)#
```

## 3. Konfigurasi Router RPL

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname rpl
rpl(config)#int fa 0/0
rpl(config-if)#ip address 172.18.0.1 255.255.255.0
rpl(config-if)#no shutdown

rpl(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

rpl(config-if)#int fa 1/0
rpl(config-if)#ip address 172.15.0.3 255.255.255.0
rpl(config-if)#no shutdown

rpl(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

rpl(config-if)#
```

#### 4. Konfigurasi Router SI

```
si(config)#int fa 0/0
si(config-if)#ip address 172.17.0.1 255.255.255.0
si(config-if)#no shutdown

si(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

si(config-if)#int fa 1/0
si(config-if)#ip address 172.15.0.2 255.255.255.0
si(config-if)#no shutdown

si(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

si(config-if)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

#### 5. Konfigurasi Router Gateway

```
Router>enable
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname ums
ums(config)#int fa 0/0
ums(config-if)#ip address 172.19.0.1 255.255.255.0
ums(config-if)#no shutdown

ums(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

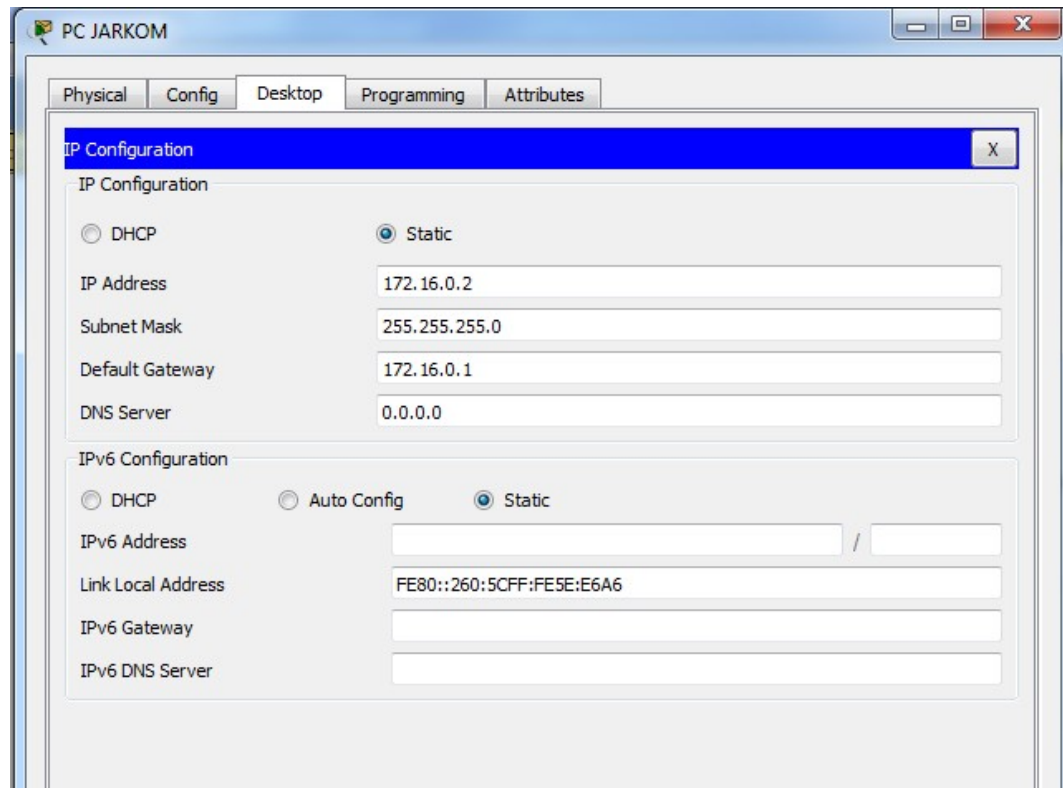
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

ums(config-if)#int fa 1/0
ums(config-if)#ip address 172.15.0.4 255.255.255.0
ums(config-if)#no shutdown

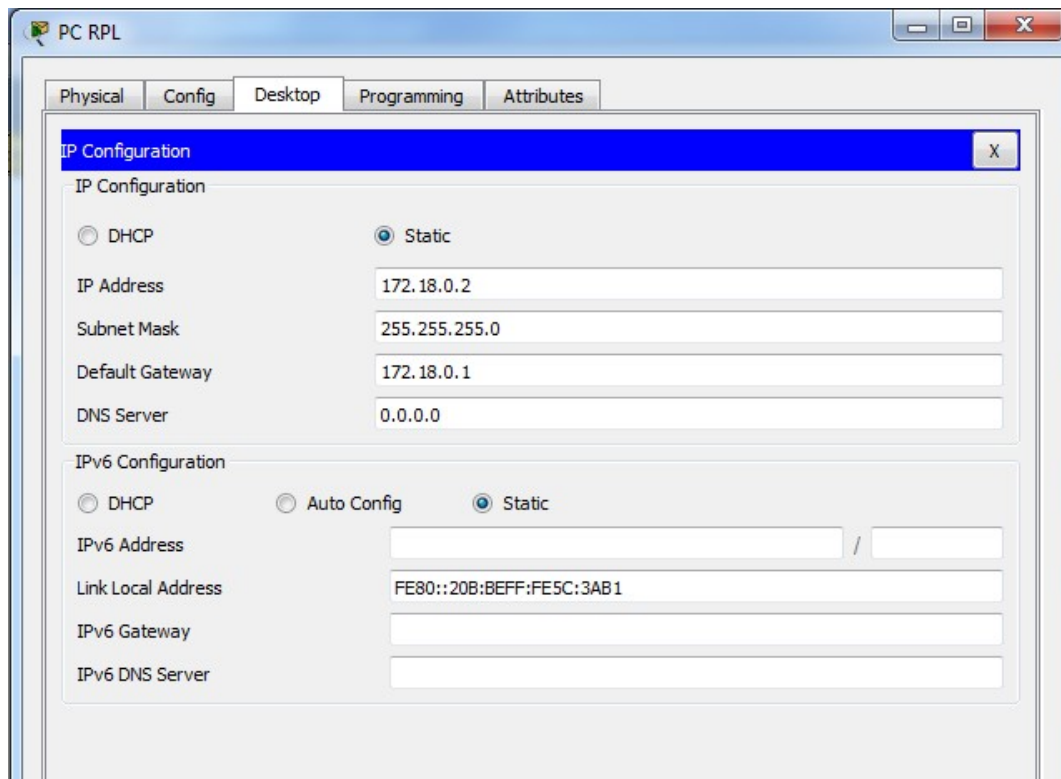
ums(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

ums(config-if)#
```

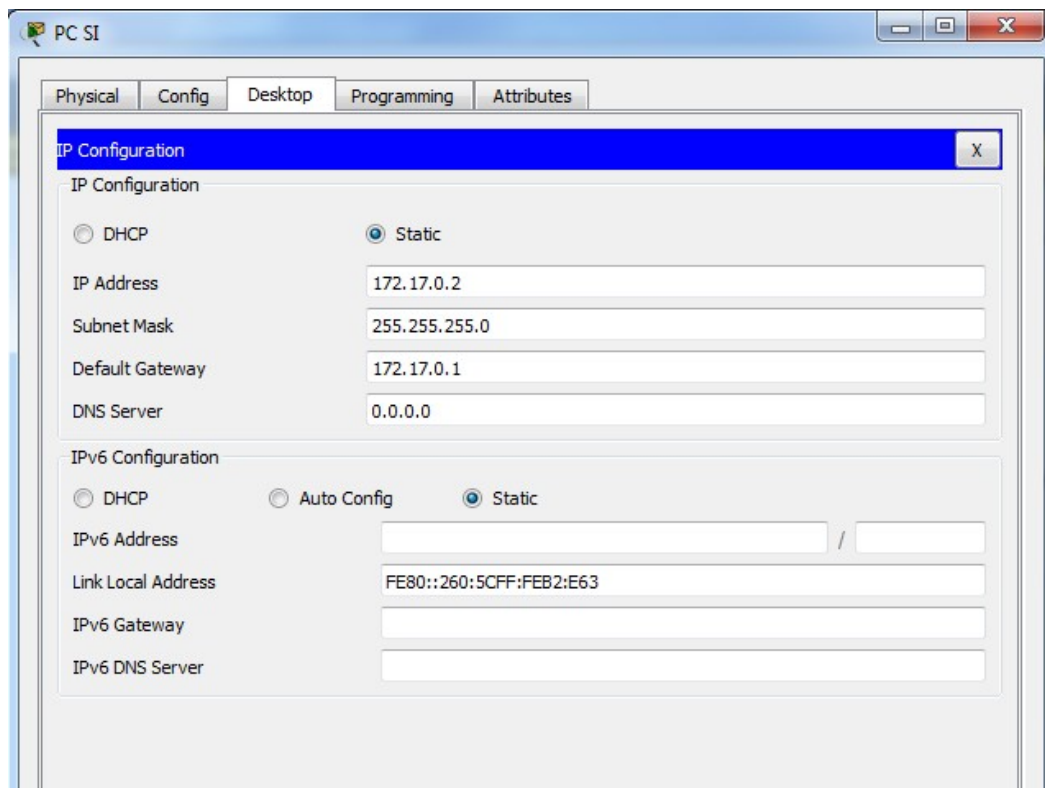
## 6. Konfigurasi PC



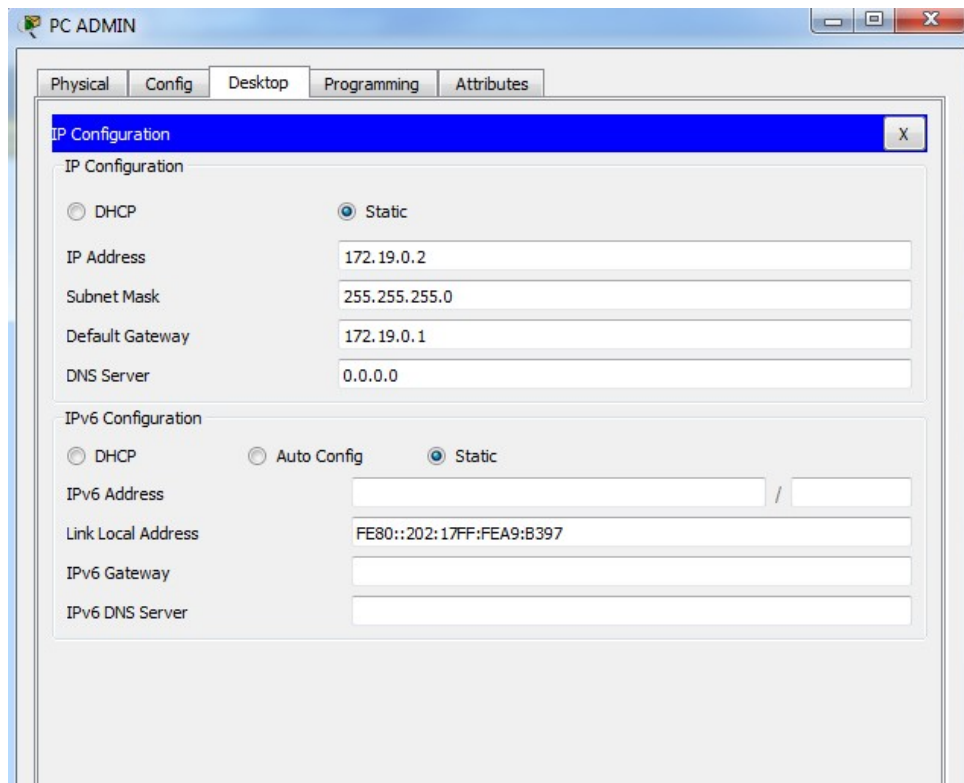
## 7. Konfigurasi PC RPL



## 8. Konfigurasi PC SI



## 9. Konfigurasi PC Gateway



The screenshot shows the 'PC ADMIN' window with the 'Config' tab selected. The 'IP Configuration' section is active, displaying settings for both IPv4 and IPv6. The IPv4 configuration is set to 'Static' with the following values: IP Address: 172.19.0.2, Subnet Mask: 255.255.255.0, Default Gateway: 172.19.0.1, and DNS Server: 0.0.0.0. The IPv6 configuration is also set to 'Static' with the following values: IPv6 Address: (empty), Link Local Address: FE80::202:17FF:FEA9:B397, IPv6 Gateway: (empty), and IPv6 DNS Server: (empty).

Configuration Type	Option	Value
IP Configuration (IPv4)	Static	
	IP Address	172.19.0.2
	Subnet Mask	255.255.255.0
	Default Gateway	172.19.0.1
DNS Server	DNS Server	0.0.0.0
IPv6 Configuration	Static	
	IPv6 Address	
	Link Local Address	FE80::202:17FF:FEA9:B397
	IPv6 Gateway	
	IPv6 DNS Server	

## 10. Melakukan peroutingan

```
Router(config-if)#exit
Router(config)#hostname jarkom
jarkom(config)#router rip
jarkom(config-router)#network 172.15.0.0
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 172.19.0.0
jarkom(config-router)#
```

```
si(config-if)#exit
si(config)#router rip
si(config-router)#network 172.15.0.0
si(config-router)#network 172.16.0.0
si(config-router)#network 172.17.0.0
si(config-router)#network 172.18.0.0
si(config-router)#network 172.19.0.0
si(config-router)#
```

```
rpl(config-if)#exit
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)#
```

```
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
ums(config-router)#
```

## 11. Melakukan cek koneksi



