

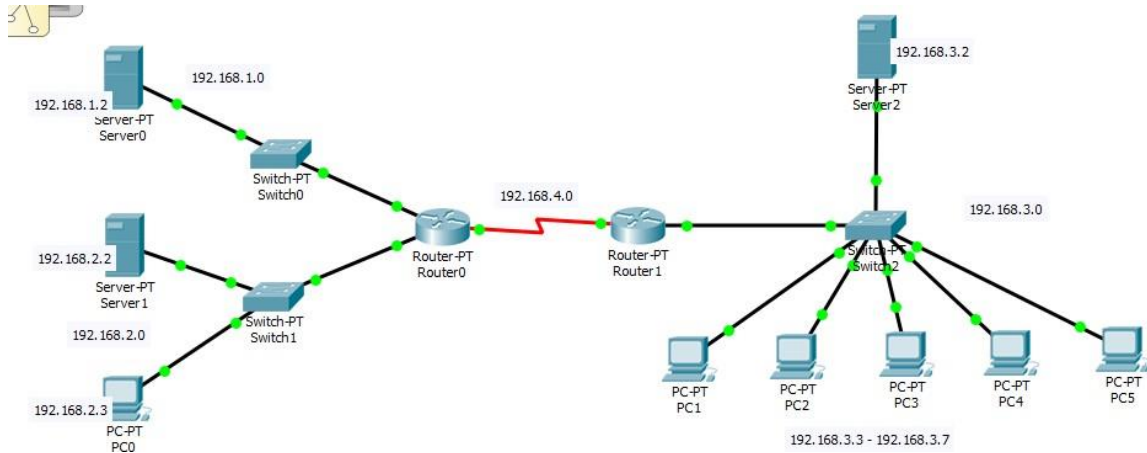
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## QUIZ

### 1. Desain jaringan



### 2. Konfigurasi Server 0

#### a. IP configuration

Server0

Physical Config Services Desktop Programming Attributes

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:58FF:FE88:6AE5

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

## b. konfigurasi DNS Server

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' list includes HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, FTP, IoT, and VM Management. The 'DNS' service is selected. The main area is titled 'DNS' and shows 'DNS Service' as 'On'. Below this, the 'Resource Records' section has a 'Name' field, a 'Type' dropdown set to 'A Record', and an 'Address' field. At the bottom, there are 'Add', 'Save', and 'Remove' buttons, followed by a table of existing records.

No.	Name	Type	Detail
0	informatika.ums.com	A Record	192.168.2.2
1	ums.com	A Record	192.168.1.2

## 3. Konfigurasi Server 1

The screenshot shows the 'Server1' configuration window with the 'Desktop' tab selected. An 'IP Configuration' dialog box is open, showing settings for both IPv4 and IPv6. The IPv4 section has 'Static' selected with IP Address 192.168.2.2, Subnet Mask 255.255.255.0, Default Gateway 192.168.2.1, and DNS Server 0.0.0.0. The IPv6 section has 'Static' selected with an empty IPv6 Address field, Link Local Address FE80::230:A3FF:FE95:5E54, and empty fields for IPv6 Gateway and IPv6 DNS Server.

**IP Configuration**

☐ DHCP ☒ Static

IP Address: 192.168.2.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

DNS Server: 0.0.0.0

**IPv6 Configuration**

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

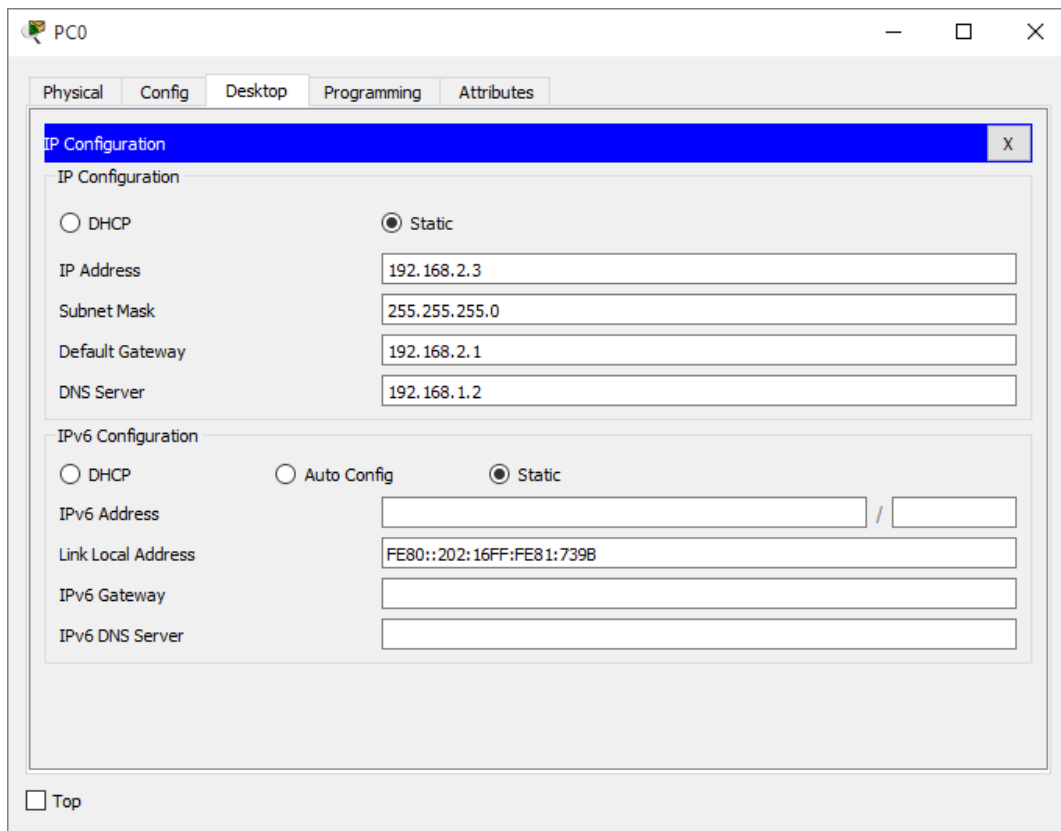
Link Local Address: FE80::230:A3FF:FE95:5E54

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

#### 4. Konfigurasi PC 0

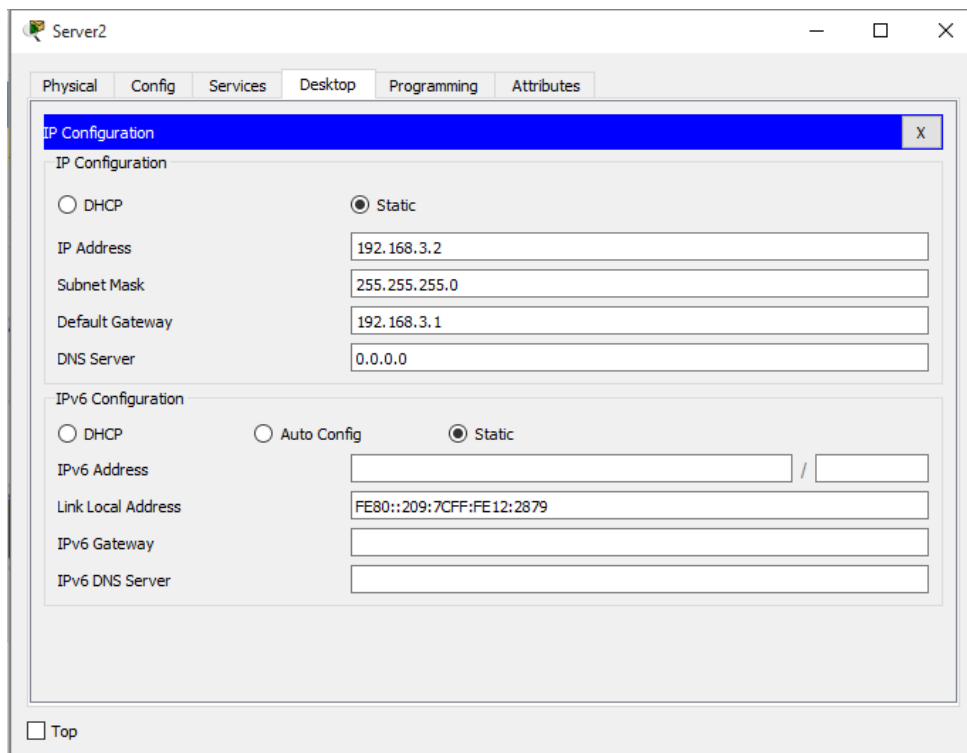


The screenshot shows the configuration window for PC0. The 'Config' tab is selected, and the 'IP Configuration' sub-tab is active. The 'IP Configuration' section has 'Static' selected. The 'IPv6 Configuration' section has 'Static' selected. The fields are filled with the following values:

Field	Value
IP Address	192.168.2.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
DNS Server	192.168.1.2
IPv6 Address	
Link Local Address	FE80::202:16FF:FE81:739B
IPv6 Gateway	
IPv6 DNS Server	

#### 5. Konfigurasi Server 2

##### a. konfigurasi ip



The screenshot shows the configuration window for Server2. The 'Config' tab is selected, and the 'IP Configuration' sub-tab is active. The 'IP Configuration' section has 'Static' selected. The 'IPv6 Configuration' section has 'Static' selected. The fields are filled with the following values:

Field	Value
IP Address	192.168.3.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.3.1
DNS Server	0.0.0.0
IPv6 Address	
Link Local Address	FE80::209:7CFF:FE12:2879
IPv6 Gateway	
IPv6 DNS Server	

## b. Konfigurasi DHCP

The screenshot shows the 'Services' tab in the 'Server2' configuration window. The 'DHCP' service is selected and configured for the 'FastEthernet0' interface. The 'Service' is set to 'On'. The configuration includes a pool named 'serverPool' with a default gateway of 192.168.3.1 and a DNS server of 192.168.1.2. The start IP address is 192.168.3.3, and the subnet mask is 255.255.255.0. The maximum number of users is 10. The TFTP server and WLC address are both set to 0.0.0.0. A table at the bottom lists the configuration details for the 'serverPool'.

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168.3.1	192.168.1.2	192.168.3.3	255.255.255.0	10	0.0.0.0	0.0.0.0

## 6. Konfigurasi PC

### a. PC1

The screenshot shows the 'IP Configuration' window for 'PC1'. The 'DHCP' option is selected. The IP address is 192.168.3.3, the subnet mask is 255.255.255.0, the default gateway is 192.168.3.1, and the DNS server is 192.168.1.2. The 'IPv6 Configuration' section shows 'Static' as the selected option, with an IPv6 address field, a link local address of FE80::201:42FF:FED9:B175, and empty fields for IPv6 gateway and DNS server. A 'Top' button is located at the bottom left.

☒ DHCP ☐ Static

IP Address: 192.168.3.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.3.1

DNS Server: 192.168.1.2

IPv6 Configuration:

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: [ ] / [ ]

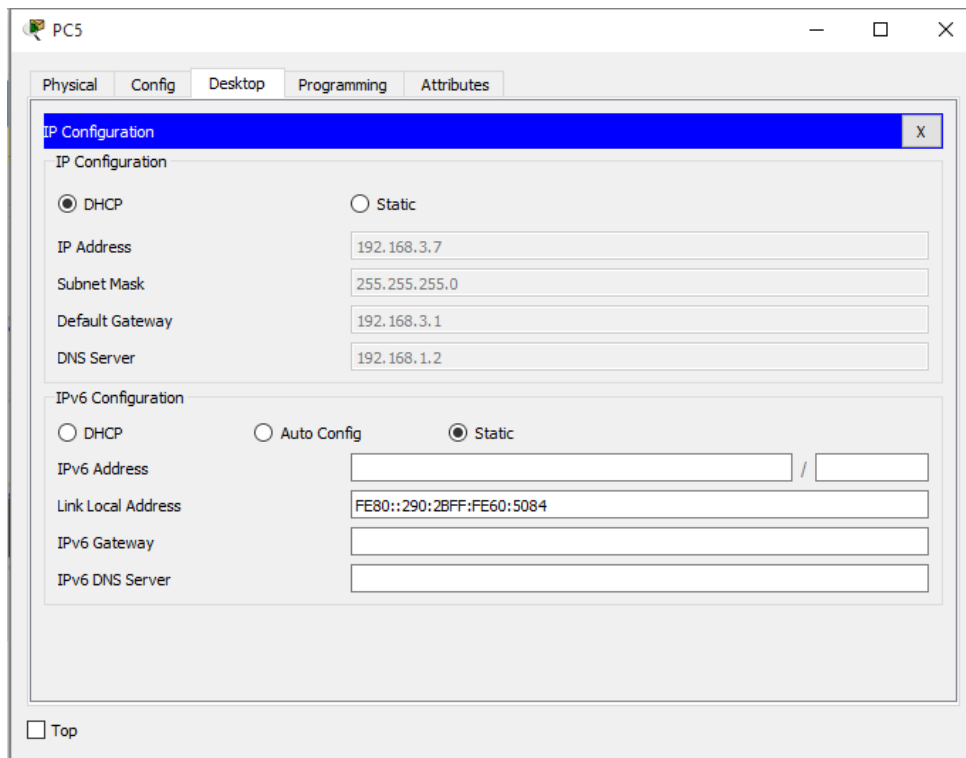
Link Local Address: FE80::201:42FF:FED9:B175

IPv6 Gateway: [ ]

IPv6 DNS Server: [ ]

☐ Top

## b. PC 5



The screenshot shows the 'PC5' configuration window with the 'Config' tab selected. The 'IP Configuration' section is active, showing DHCP selected and Static unselected. The IP Address is 192.168.3.7, Subnet Mask is 255.255.255.0, Default Gateway is 192.168.3.1, and DNS Server is 192.168.1.2. The 'IPv6 Configuration' section shows DHCP unselected, Auto Config unselected, and Static selected. The IPv6 Address is empty, Link Local Address is FE80::290:2BFF:FE60:5084, IPv6 Gateway is empty, and IPv6 DNS Server is empty.

PC5

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☒ DHCP ☐ Static

IP Address: 192.168.3.7

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.3.1

DNS Server: 192.168.1.2

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::290:2BFF:FE60:5084

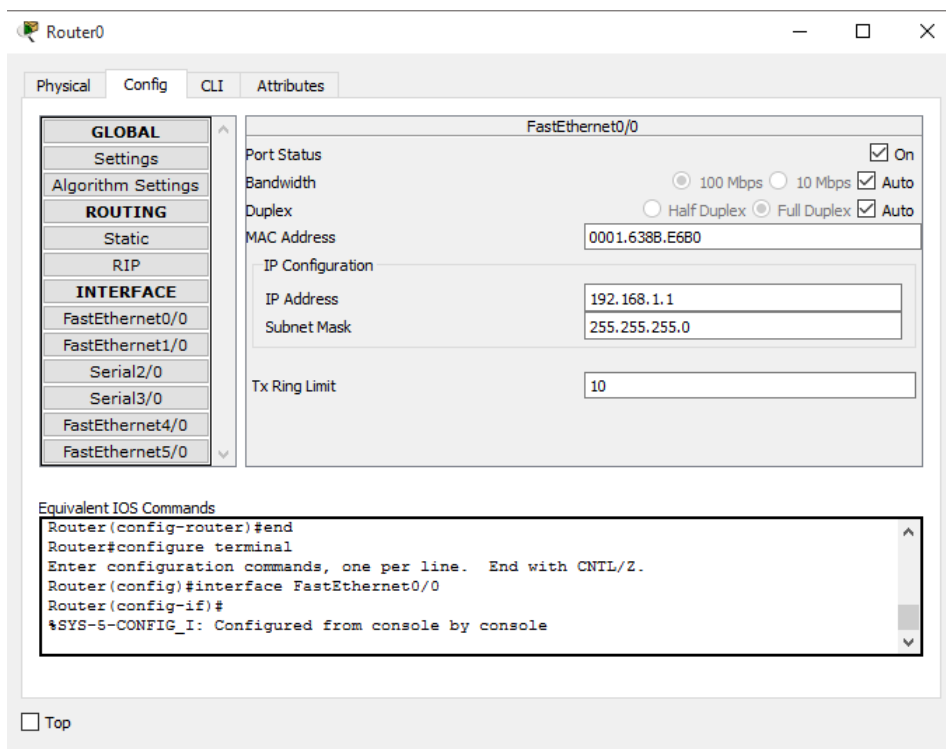
IPv6 Gateway:

IPv6 DNS Server:

☐ Top

## 7. Konfigurasi Router 0

### a. fa 0/0



The screenshot shows the 'Router0' configuration window with the 'Config' tab selected. The 'FastEthernet0/0' interface is selected in the 'INTERFACE' list. The 'Port Status' is On, Bandwidth is 100 Mbps, Duplex is Full Duplex, and MAC Address is 0001.6388.E6B0. The 'IP Configuration' section shows IP Address 192.168.1.1 and Subnet Mask 255.255.255.0. The 'Tx Ring Limit' is 10. The 'Equivalent IOS Commands' section shows the configuration commands for the interface.

Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

FastEthernet0/0

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 0001.6388.E6B0

IP Configuration

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Equivalent IOS Commands

```
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
$SYS-5-CONFIG_I: Configured from console by console
```

☐ Top

b. fa 1/0

The screenshot shows the configuration window for FastEthernet1/0 on Router0. The left sidebar has tabs for GLOBAL, Settings, Algorithm Settings, ROUTING, Static, RIP, INTERFACE, and a list of interfaces. Under the INTERFACE tab, FastEthernet1/0 is selected. The main area shows configuration for FastEthernet1/0 with fields for Port Status (On), Bandwidth (100 Mbps), Duplex (Full Duplex), MAC Address (0090.0CBC.66A7), IP Configuration (IP Address: 192.168.2.1, Subnet Mask: 255.255.255.0), and Tx Ring Limit (10). Below the configuration fields is a text area for Equivalent IOS Commands.

Router0

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

**FastEthernet1/0**

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0090.0CBC.66A7

IP Configuration

IP Address 192.168.2.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
Router(config-if)#
%SYS-5-CONFIG_I: Configured from console by console

Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
```

☐ Top

c. serial 2/0

The screenshot shows the configuration window for Serial2/0 on Router0. The left sidebar is the same as in the previous screenshot. Under the INTERFACE tab, Serial2/0 is selected. The main area shows configuration for Serial2/0 with fields for Port Status (On), Duplex (Full Duplex), Clock Rate (2000000), IP Configuration (IP Address: 192.168.4.1, Subnet Mask: 255.255.255.0), and Tx Ring Limit (10). Below the configuration fields is a text area for Equivalent IOS Commands.

Router0

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

**Serial2/0**

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 2000000

IP Configuration

IP Address 192.168.4.1

Subnet Mask 255.255.255.0

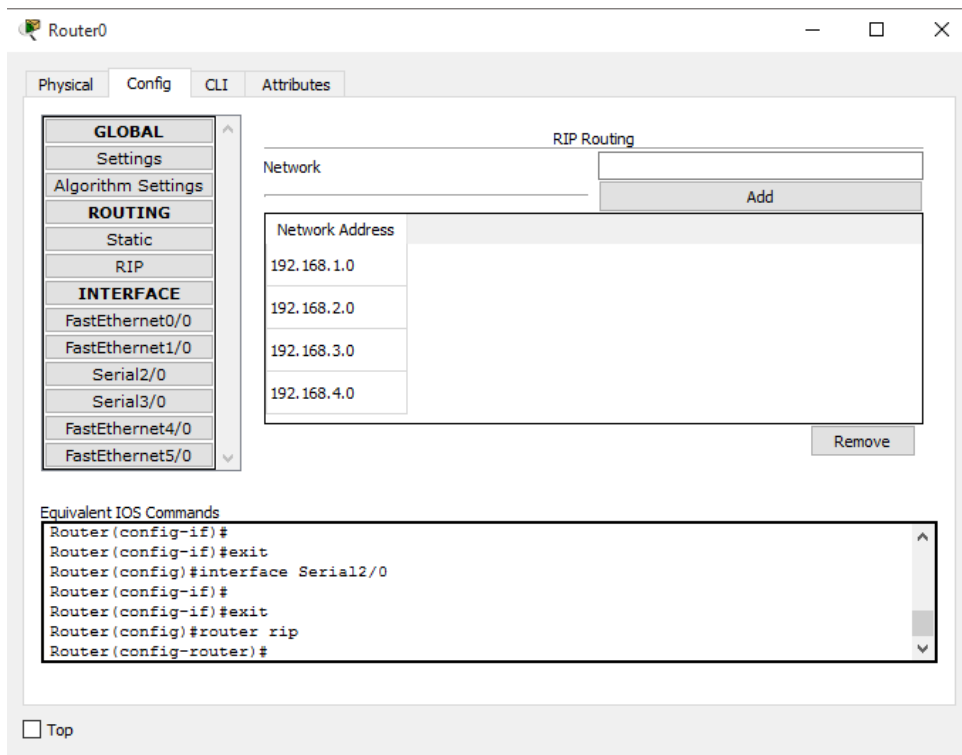
Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
```

☐ Top

## d. Routing RIP



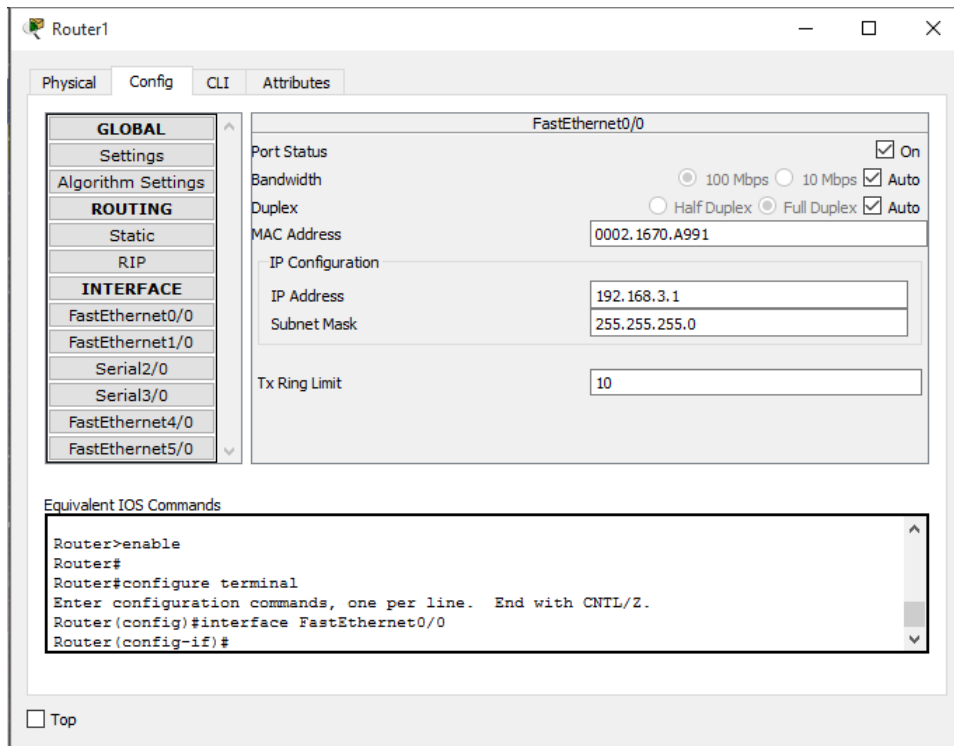
The screenshot shows the 'Router0' configuration window with the 'Config' tab selected. The left sidebar shows a tree view with 'GLOBAL' expanded, containing 'Settings', 'Algorithm Settings', 'ROUTING', and 'INTERFACE'. Under 'ROUTING', 'RIP' is selected. The main area is titled 'RIP Routing' and contains a 'Network' input field, an 'Add' button, and a list of network addresses: 192.168.1.0, 192.168.2.0, 192.168.3.0, and 192.168.4.0. A 'Remove' button is at the bottom right. Below the main area is a text box for 'Equivalent IOS Commands' containing the following commands:

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#
```

At the bottom left, there is a 'Top' button.

## 8. Konfigurasi Router 1

### a. fa 0/0



The screenshot shows the 'Router1' configuration window with the 'Config' tab selected. The left sidebar shows a tree view with 'GLOBAL' expanded, containing 'Settings', 'Algorithm Settings', 'ROUTING', and 'INTERFACE'. Under 'INTERFACE', 'FastEthernet0/0' is selected. The main area is titled 'FastEthernet0/0' and contains the following configuration options:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 0002.1670.A991
- IP Configuration:
  - IP Address: 192.168.3.1
  - Subnet Mask: 255.255.255.0
- Tx Ring Limit: 10

Below the main area is a text box for 'Equivalent IOS Commands' containing the following commands:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

At the bottom left, there is a 'Top' button.

b. se 2/0

The screenshot shows the 'Router1' configuration window with the 'Config' tab selected. The left sidebar has a tree view with 'GLOBAL' (Settings, Algorithm Settings), 'ROUTING' (Static, RIP), and 'INTERFACE' (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0). The 'Serial2/0' interface is selected, and its configuration is shown in the main area. The 'Port Status' is checked 'On'. 'Duplex' is set to 'Full Duplex'. 'Clock Rate' is set to '1200'. 'IP Configuration' shows 'IP Address' as '192.168.4.2' and 'Subnet Mask' as '255.255.255.0'. 'Tx Ring Limit' is set to '10'. Below the configuration area, the 'Equivalent IOS Commands' are listed in a text box: 

```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet1/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial2/0  
Router(config-if)#
```

Serial2/0	
Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	1200
IP Configuration	
IP Address	192.168.4.2
Subnet Mask	255.255.255.0
Tx Ring Limit	10

Equivalent IOS Commands

```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet1/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial2/0  
Router(config-if)#
```

c. Routing RIP

The screenshot shows the 'Router1' configuration window with the 'Config' tab selected. The left sidebar is the same as in the previous screenshot. The 'RIP' option under 'ROUTING' is selected, and the 'RIP Routing' configuration is shown in the main area. A 'Network' input field is empty, and an 'Add' button is next to it. Below, a table lists 'Network Address' entries: 192.168.1.0, 192.168.2.0, 192.168.3.0, and 192.168.4.0. A 'Remove' button is at the bottom right. Below the configuration area, the 'Equivalent IOS Commands' are listed in a text box: 

```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial2/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#router rip  
Router(config-router)#
```

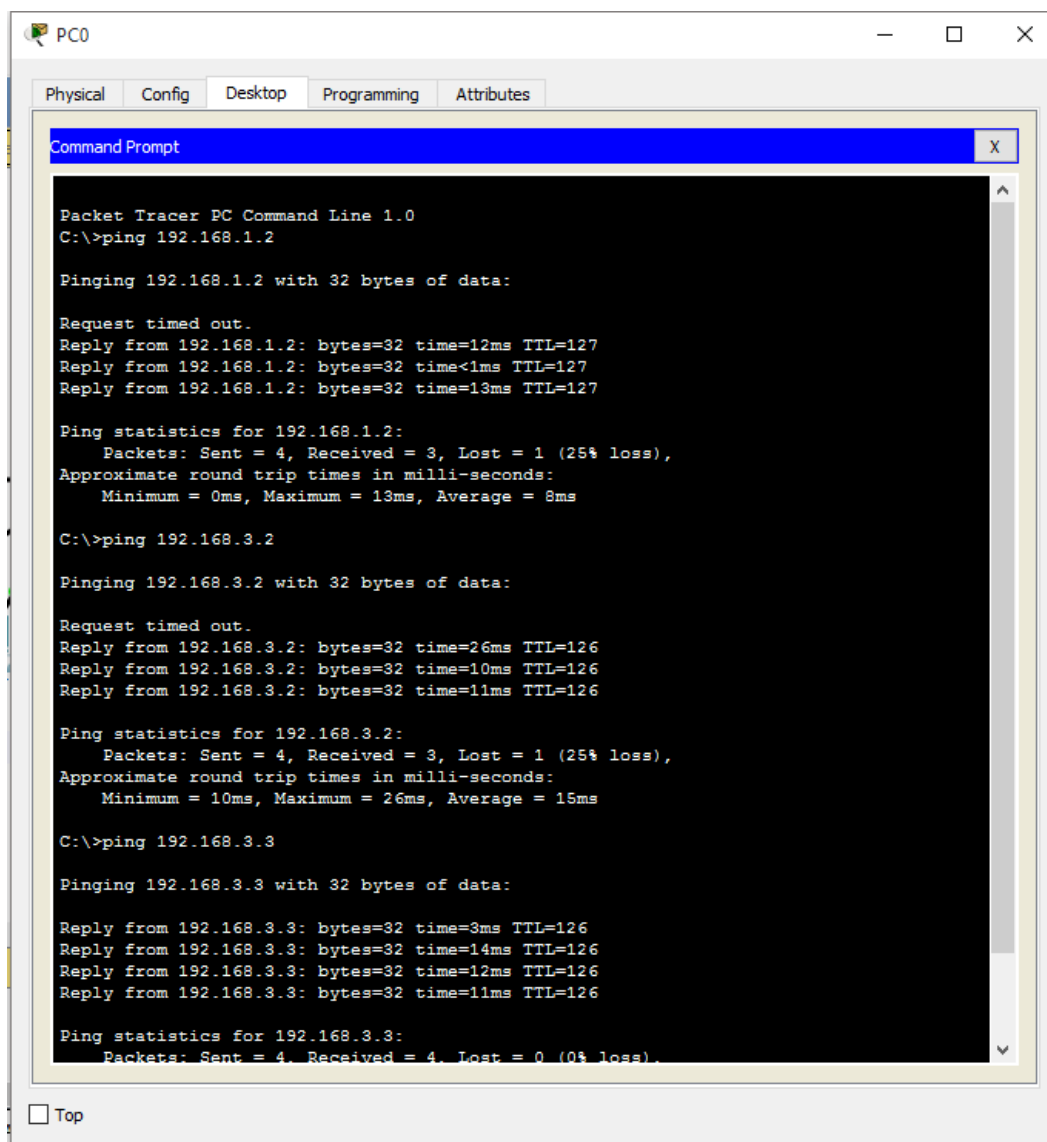
RIP Routing	
Network	
Add	
Network Address	
192.168.1.0	
192.168.2.0	
192.168.3.0	
192.168.4.0	
Remove	

Equivalent IOS Commands

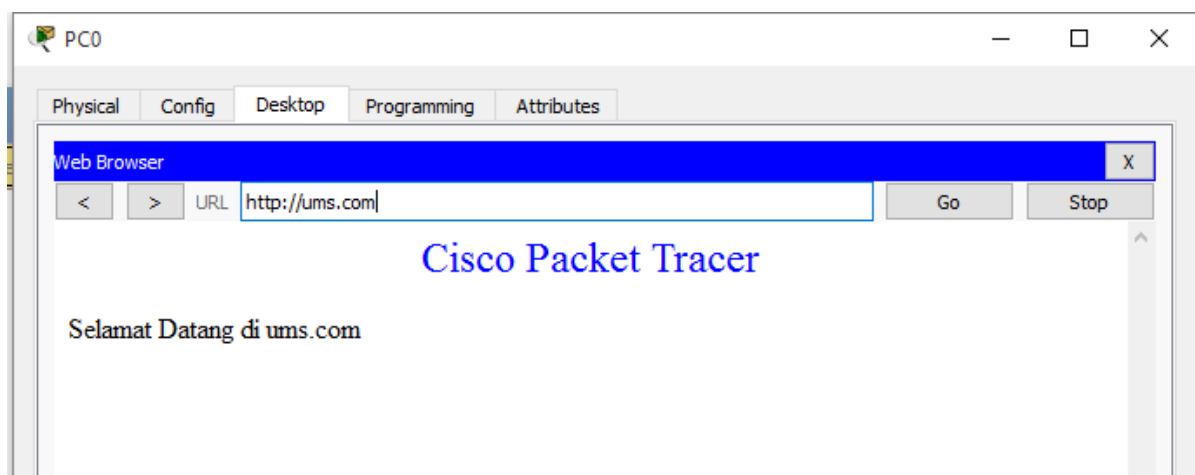
```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial2/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#router rip  
Router(config-router)#
```

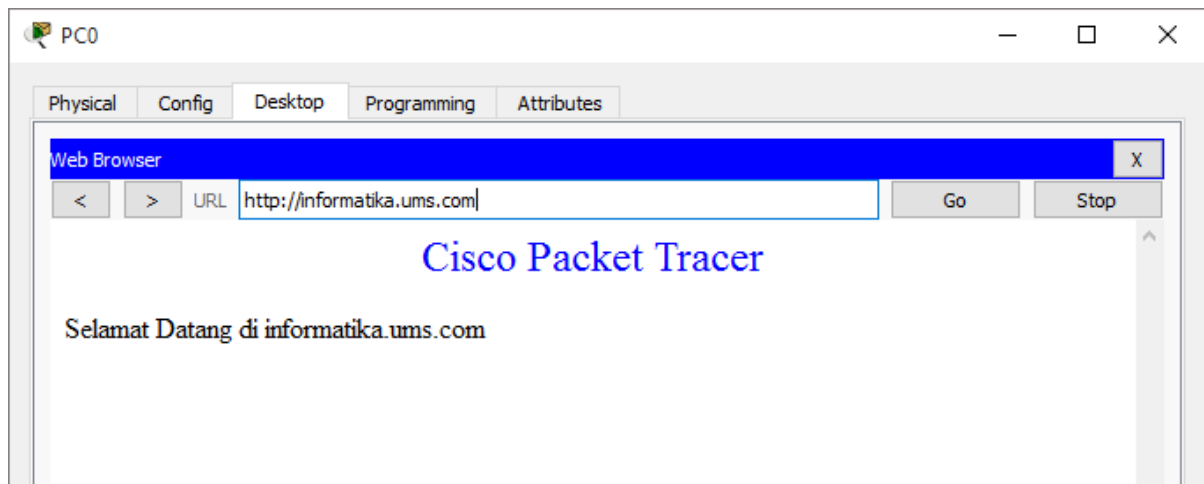


## 9. Melakukan Ping dari PC 0

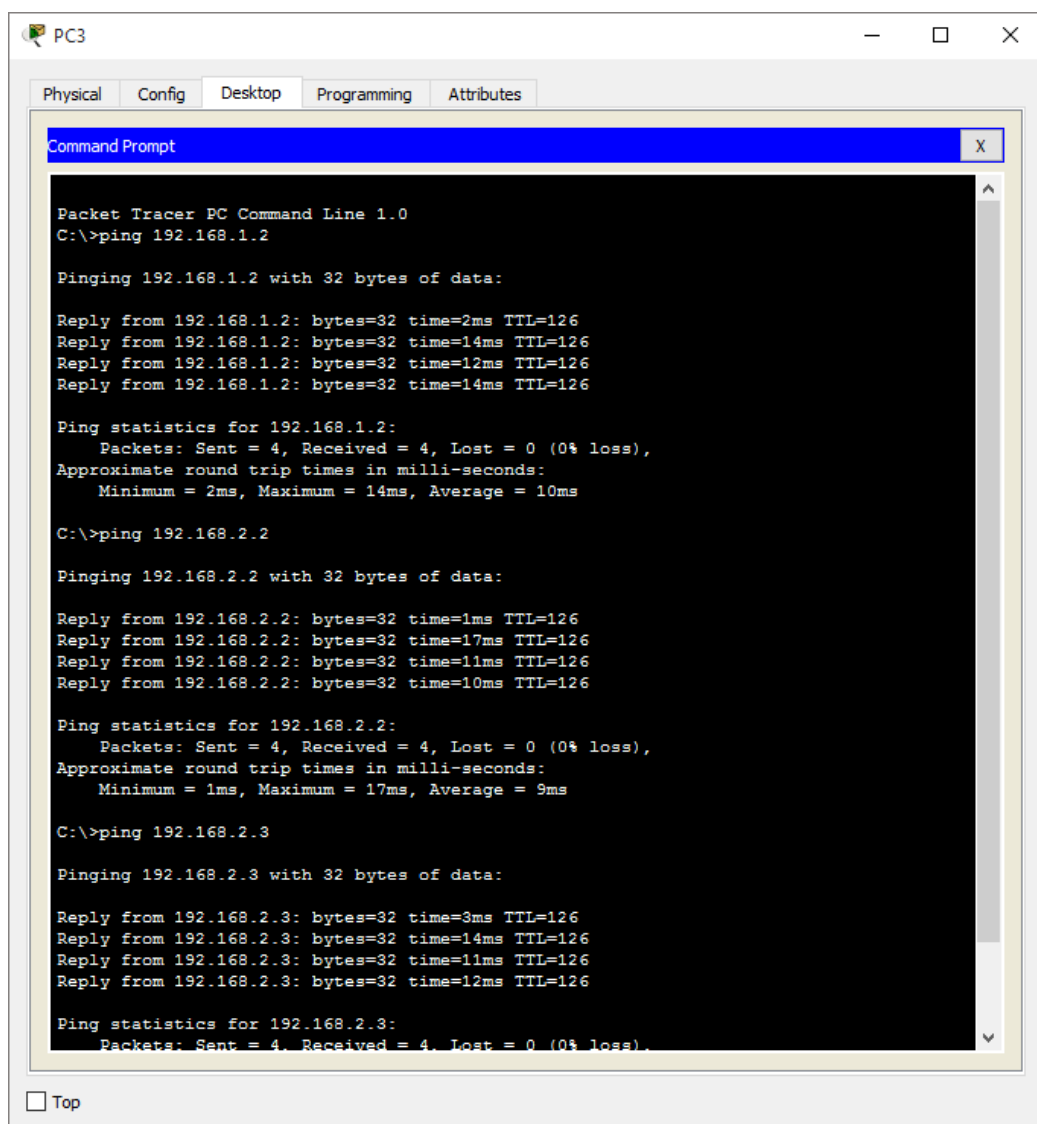


## 10. Melihat lewat browser





11. Melakukan ping dari PC 3 (Network 192.168.3.0)



## 12. Membuka lewat browser (DNS)

