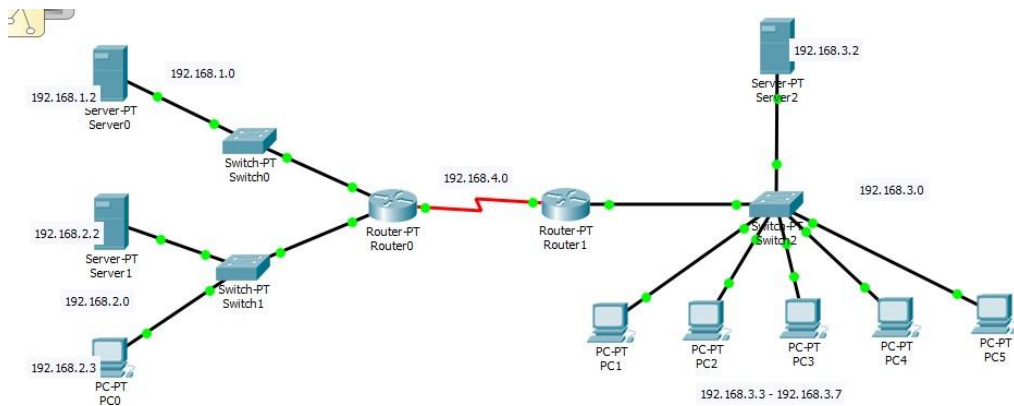


Nama : Tino Arif  
Kelas : C  
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- Desain jaringan



- Konfigurasi Server 0
- IP configuration

Server0

Physical Config Services Desktop Programming Attributes

IP Configuration

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:FEB8:6AE5

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 shows the 'DNS' configuration with 'DNS Service' set to 'On'. Below, 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

## • 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 a Link Local Address of FE80::230:A3FF:FE95:5E54. There are also fields for IPv6 Address, IPv6 Gateway, and IPv6 DNS Server. A 'Top' button is at the bottom left.

**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: /

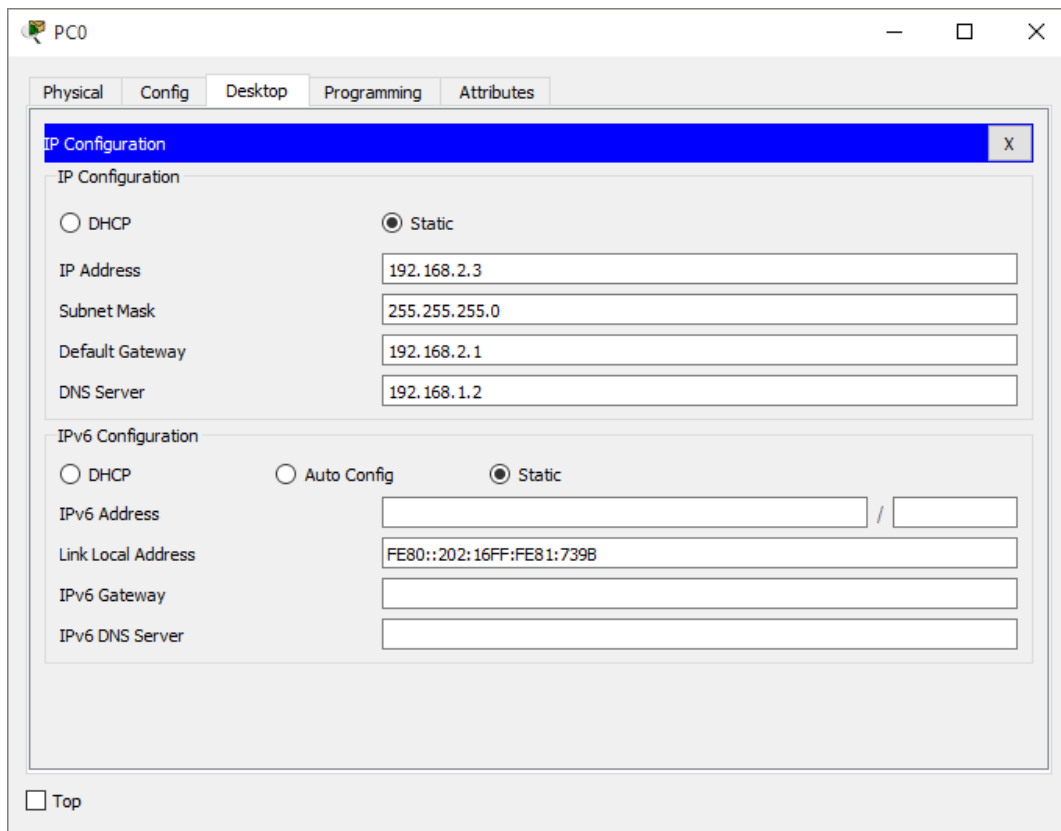
Link Local Address: FE80::230:A3FF:FE95:5E54

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 two radio buttons: 'DHCP' (unselected) and 'Static' (selected). Below these are five text input fields: 'IP Address' (192.168.2.3), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (192.168.2.1), and 'DNS Server' (192.168.1.2). The 'IPv6 Configuration' section also has three radio buttons: 'DHCP' (unselected), 'Auto Config' (unselected), and 'Static' (selected). Below these are four text input fields: 'IPv6 Address' (empty), 'Link Local Address' (FE80::202:16FF:FE81:739B), 'IPv6 Gateway' (empty), and 'IPv6 DNS Server' (empty). A 'Top' button is located at the bottom left of the window.

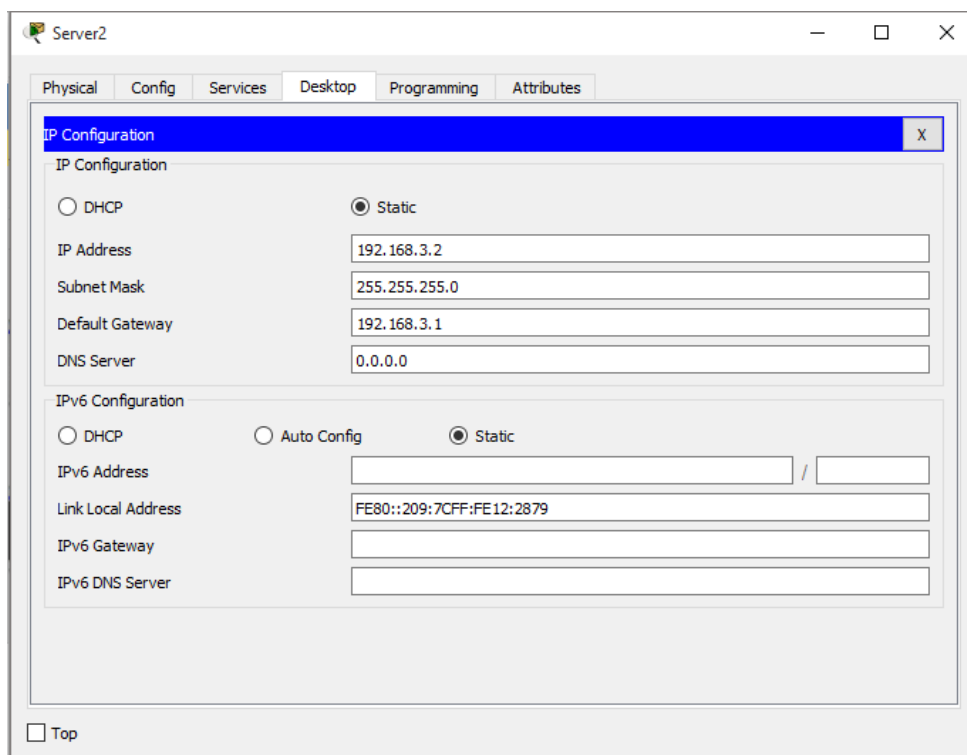
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	192.168.2.3
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
DNS Server	192.168.1.2

IPv6 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::202:16FF:FE81:739B	
IPv6 Gateway		
IPv6 DNS Server		

- 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 two radio buttons: 'DHCP' (unselected) and 'Static' (selected). Below these are five text input fields: 'IP Address' (192.168.3.2), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (192.168.3.1), and 'DNS Server' (0.0.0.0). The 'IPv6 Configuration' section also has three radio buttons: 'DHCP' (unselected), 'Auto Config' (unselected), and 'Static' (selected). Below these are four text input fields: 'IPv6 Address' (empty), 'Link Local Address' (FE80::209:7CFF:FE12:2879), 'IPv6 Gateway' (empty), and 'IPv6 DNS Server' (empty). A 'Top' button is located at the bottom left of the window.

IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
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 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> Static
IPv6 Address		
Link Local Address	FE80::209:7CFF:FE12:2879	
IPv6 Gateway		
IPv6 DNS Server		

## b. Konfigurasi DHCP

The screenshot shows the 'Server2' configuration window with the 'Services' tab selected. The 'DHCP' service is configured for the 'FastEthernet0' interface. The 'Service' is set to 'On'. The 'Pool Name' is 'serverPool'. The 'Default Gateway' is '192.168.3.1'. The 'DNS Server' is '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 '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

## • Konfigurasi PC

### a. PC1

The screenshot shows the 'PC1' configuration window with the 'Desktop' tab selected. The 'IP Configuration' dialog box is open, showing the 'DHCP' option 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 the 'Static' option selected, with the 'IPv6 Address' field empty and the 'Link Local Address' set to 'FE80::201:42FF:FED9:B175'. The 'IPv6 Gateway' and 'IPv6 DNS Server' fields are also empty. A 'Top' button is located at the bottom left of the dialog box.

## b. PC 5

The screenshot shows the 'PC5' configuration window with the 'Config' tab selected. The 'IP Configuration' section is active, showing DHCP settings. 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 is also visible, showing Auto Config and Static options.

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

## • 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 left sidebar. 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-S-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 Physical, Config, CLI, and Attributes. Under the Config tab, there is a tree view with GLOBAL, Settings, Algorithm Settings, ROUTING, Static, RIP, INTERFACE, and a list of interfaces. The INTERFACE tab is selected, and FastEthernet1/0 is highlighted. The main area shows the configuration for FastEthernet1/0. The Port Status is checked (On). Bandwidth is set to 100 Mbps (selected), 10 Mbps (unselected), and Auto (checked). Duplex is set to Half Duplex (unselected), Full Duplex (selected), and Auto (checked). The MAC Address is 0090.0CBC.66A7. The IP Configuration section shows IP Address 192.168.2.1 and Subnet Mask 255.255.255.0. The Tx Ring Limit is 10. Below the configuration fields is a section for Equivalent IOS Commands, which contains the following 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)#
```

At the bottom left, there is a checkbox labeled "Top".

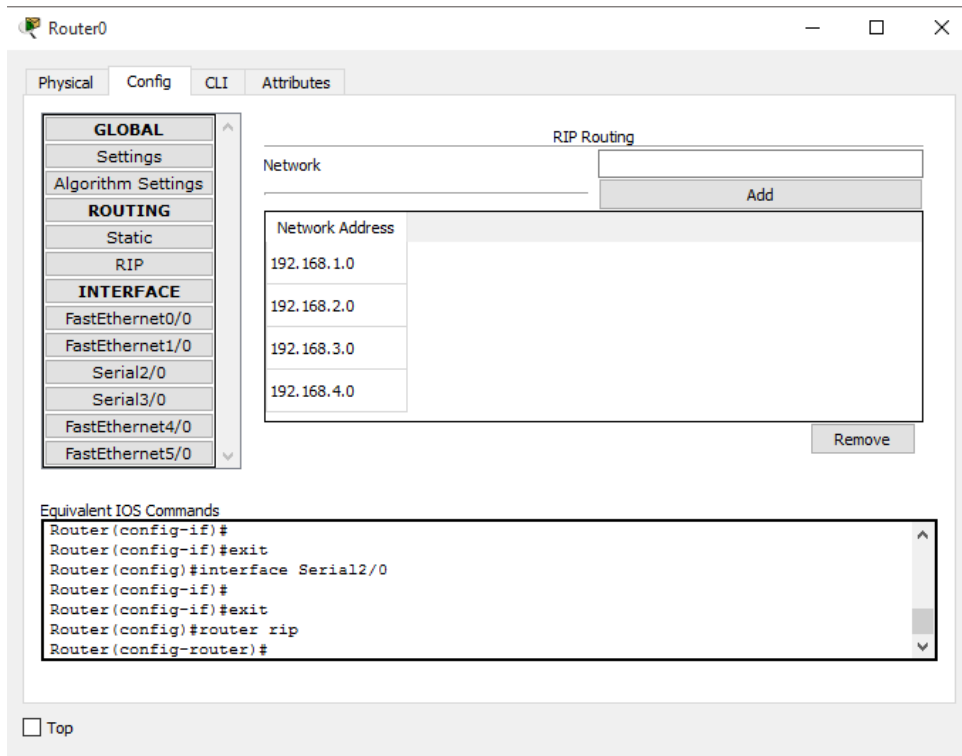
c. serial 2/0

The screenshot shows the configuration window for Serial2/0 on Router0. The left sidebar has tabs for Physical, Config, CLI, and Attributes. Under the Config tab, there is a tree view with GLOBAL, Settings, Algorithm Settings, ROUTING, Static, RIP, INTERFACE, and a list of interfaces. The INTERFACE tab is selected, and Serial2/0 is highlighted. The main area shows the configuration for Serial2/0. The Port Status is checked (On). Duplex is set to Full Duplex (selected). The Clock Rate is 2000000. The IP Configuration section shows IP Address 192.168.4.1 and Subnet Mask 255.255.255.0. The Tx Ring Limit is 10. Below the configuration fields is a section for Equivalent IOS Commands, which contains the following 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)#
```

At the bottom left, there is a checkbox labeled "Top".

#### d. Routing RIP



The screenshot shows the configuration window for Router0, specifically the RIP Routing section. The left sidebar contains a tree view with categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), and INTERFACE (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, FastEthernet5/0). The main area is titled 'RIP Routing' and includes a 'Network' input field with an 'Add' button. Below this is a table 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. At the bottom, a text box shows 'Equivalent IOS Commands' for configuring RIP on Serial2/0.

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

RIP Routing

Network

Add

Network Address
192.168.1.0
192.168.2.0
192.168.3.0
192.168.4.0

Remove

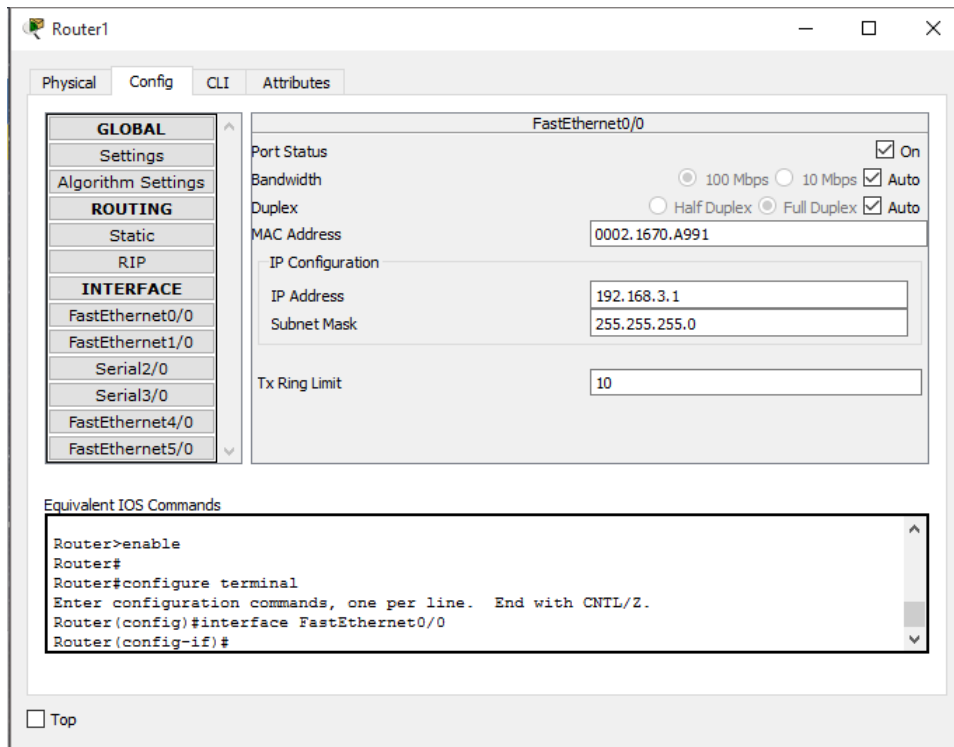
Equivalent IOS Commands

```
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)#
```

☐ Top

#### • Konfigurasi Router 1

##### a. fa 0/0



The screenshot shows the configuration window for Router1, specifically the FastEthernet0/0 interface configuration. The left sidebar is similar to Router0. The main area is titled 'FastEthernet0/0' and includes fields for Port Status (On), Bandwidth (100 Mbps), Duplex (Full Duplex), MAC Address (0002.1670.A991), IP Configuration (IP Address: 192.168.3.1, Subnet Mask: 255.255.255.0), and Tx Ring Limit (10). At the bottom, a text box shows 'Equivalent IOS Commands' for enabling the router and configuring the interface.

Router1

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 0002.1670.A991

IP Configuration

IP Address 192.168.3.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS 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)#
```

☐ Top

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' expanded, showing 'Settings', 'Algorithm Settings', 'ROUTING', and 'INTERFACE'. Under 'INTERFACE', 'Serial2/0' is selected. The main area displays the configuration for 'Serial2/0'. The 'Port Status' is checked 'On'. 'Duplex' is set to 'Full Duplex'. 'Clock Rate' is set to '1200'. 'IP Configuration' is expanded, showing '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' section shows the following 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)#
```

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

c. Routing RIP

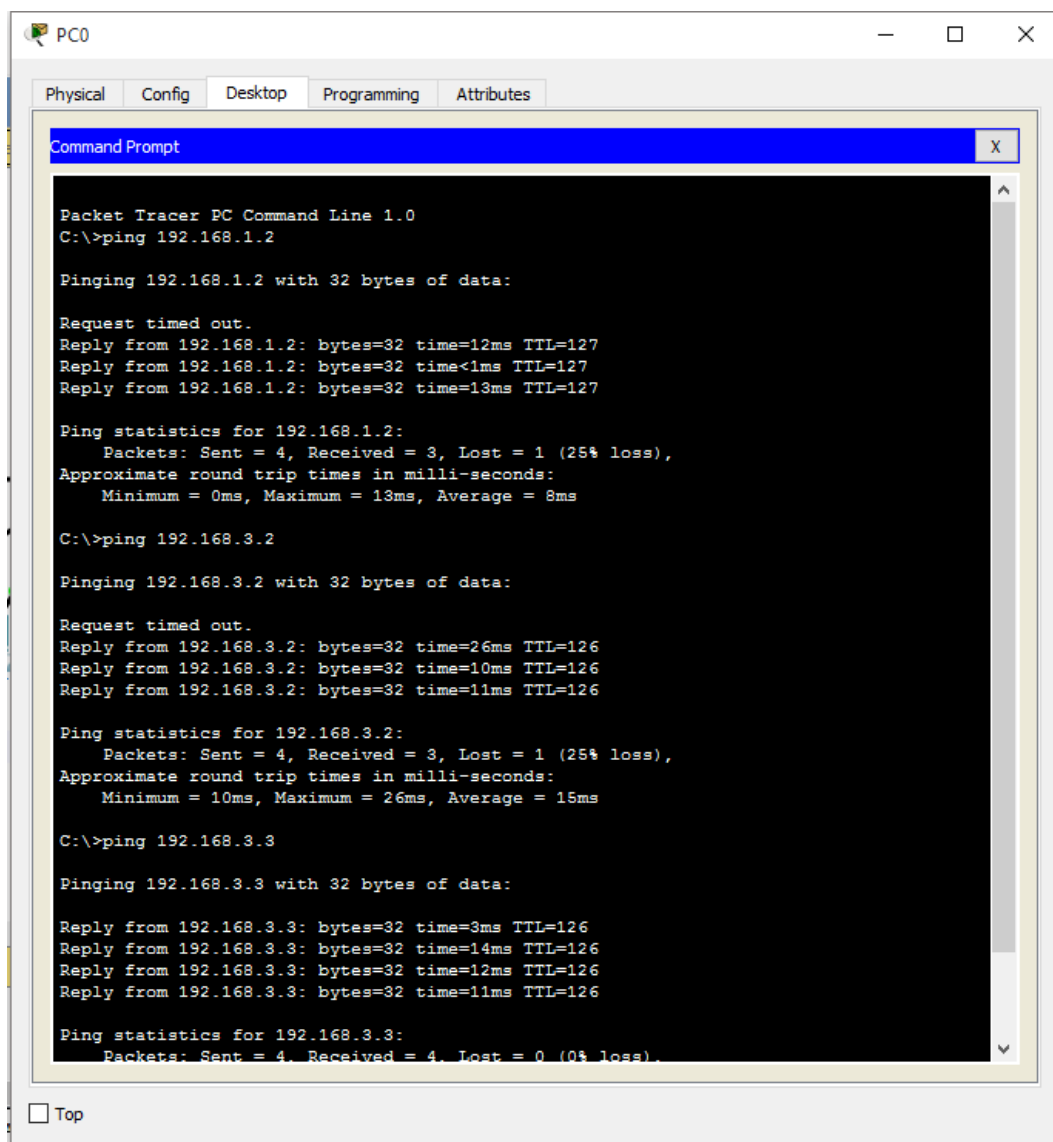
The screenshot shows the 'Router1' configuration window with the 'Config' tab selected. The left sidebar has a tree view with 'GLOBAL' expanded, showing 'Settings', 'Algorithm Settings', 'ROUTING', and 'INTERFACE'. Under 'INTERFACE', 'Serial2/0' is selected. The main area displays the 'RIP Routing' configuration. There is a 'Network' input field and an 'Add' button. Below this, 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 of the table. Below the configuration area, the 'Equivalent IOS Commands' section shows 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)#
```

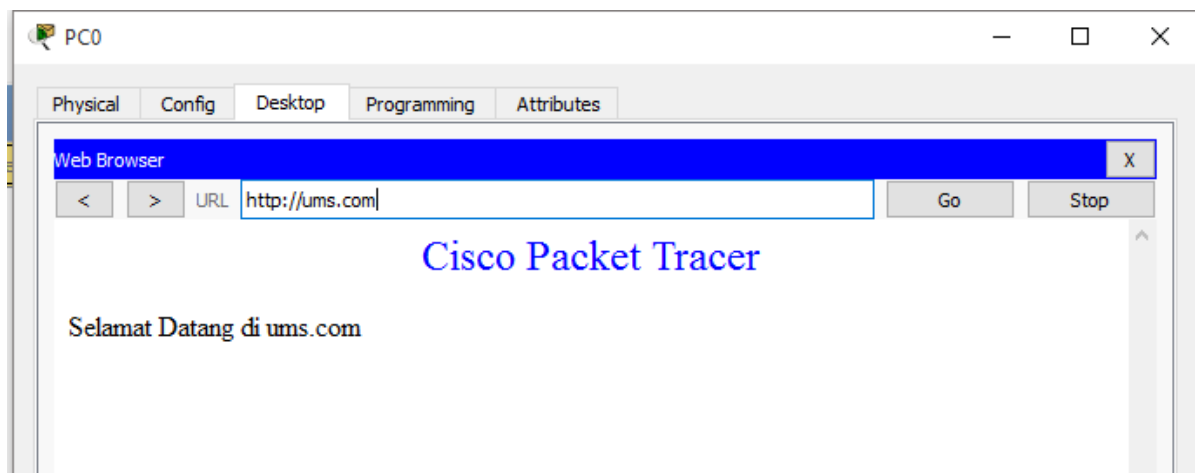
At the bottom left, there is a 'Top' button.

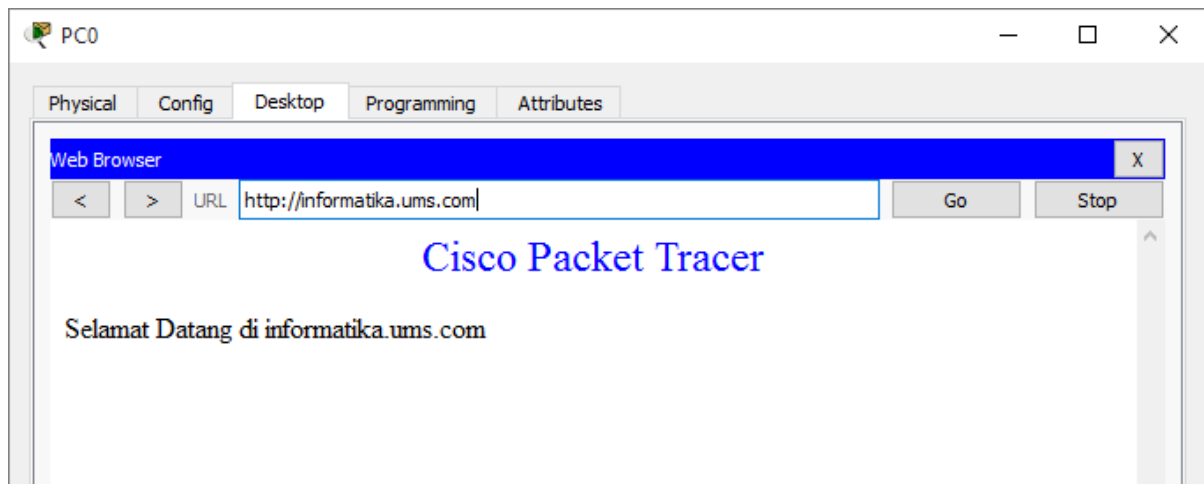


## 9. Melakukan Ping dari PC 0

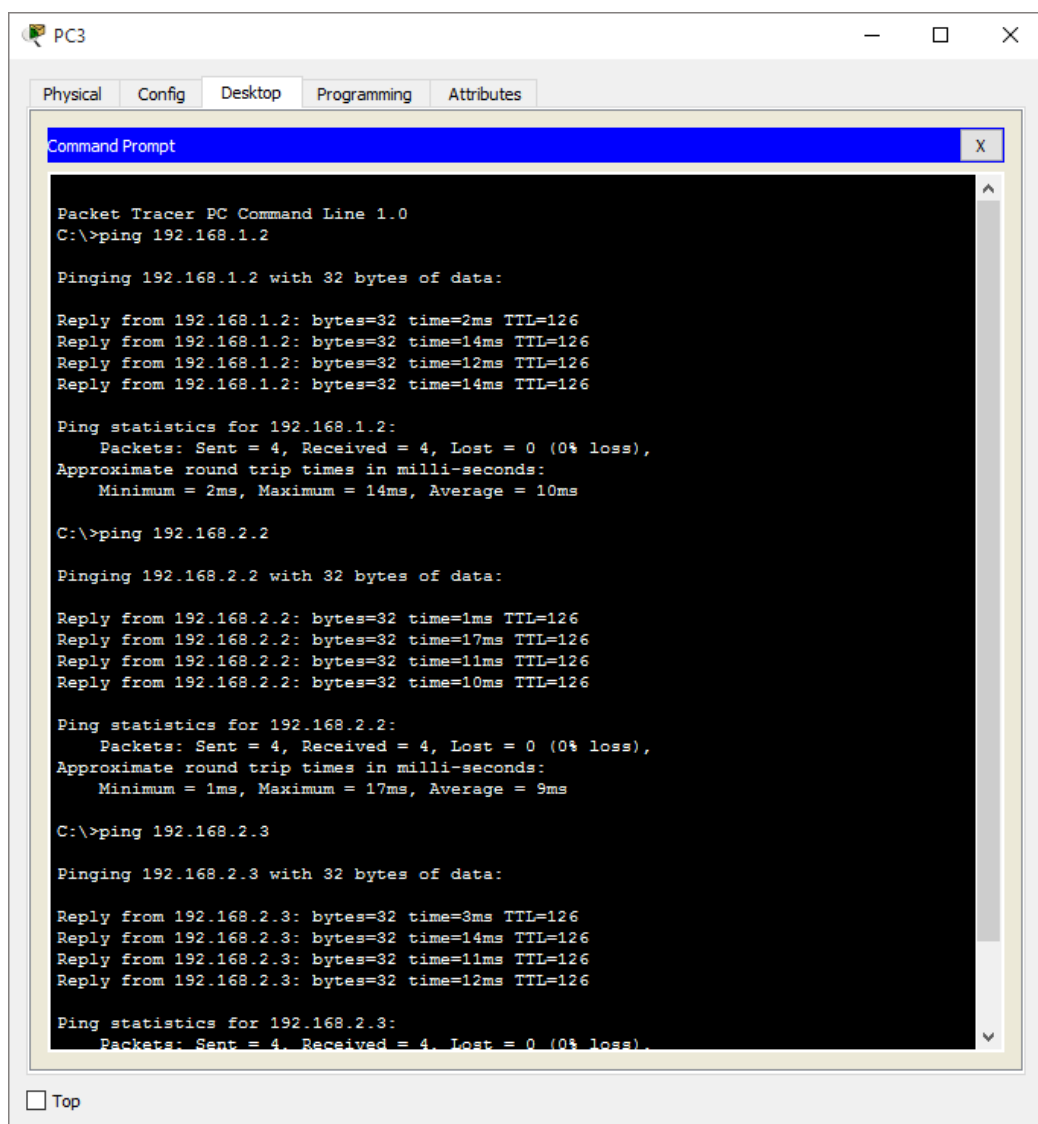


## 10. Melihat lewat browser





11. Melakukan ping dari PC 3 (Network 192.168.3.0)



## 12. Membuka lewat browser (DNS)

