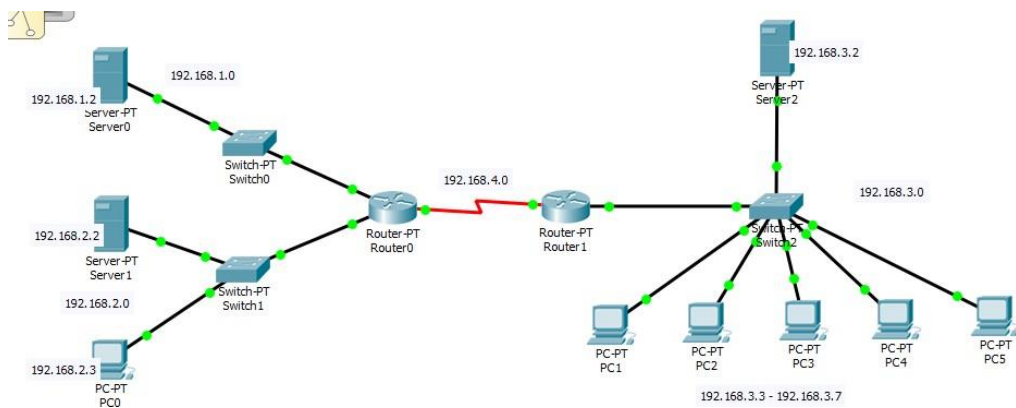


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- Desain jaringan



- 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 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. A table lists the configured 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 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

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. The 'IP Configuration' section has 'Static' selected, with 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 has 'Static' selected, with Link Local Address FE80::202:16FF:FE81:739B.

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. The 'IP Configuration' section has 'Static' selected, with 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 has 'Static' selected, with Link Local Address FE80::209:7CFF:FE12:2879.

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 DHCP configuration window for a device named 'Server2'. The 'Services' tab is active, and the 'FastEthernet0' interface is selected. The DHCP service is turned '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 IP address range is 192.168.3.3 to 192.168.3.3 with a subnet mask of 255.255.255.0. The maximum number of users is 10, and the TFTP server is 0.0.0.0. The WLC address is 0.0.0.0.

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

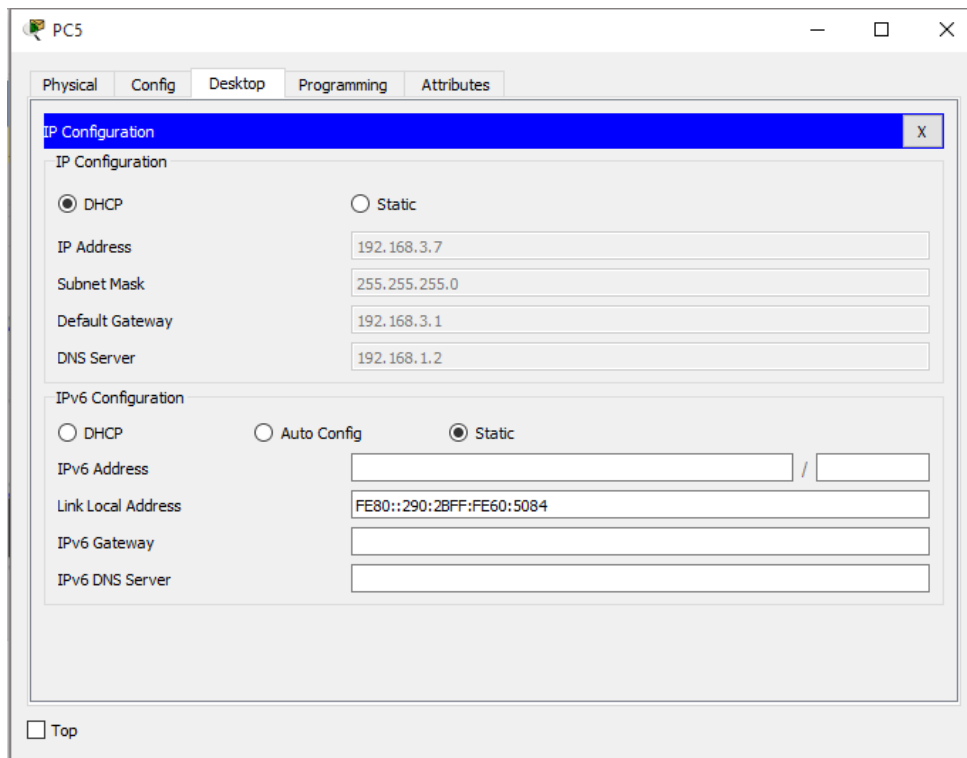
• Konfigurasi PC

a. PC1

The screenshot shows the IP Configuration window for a device named 'PC1'. The 'Desktop' tab is active. The 'IP Configuration' section shows the DHCP radio button 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' radio button selected. The IPv6 address is empty, the link local address is FE80::201:42FF:FED9:B175, and the IPv6 gateway and DNS server are empty.

Field	Value
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 Address	
Link Local Address	FE80::201:42FF:FED9:B175
IPv6 Gateway	
IPv6 DNS Server	

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, Auto Config, and Static unselected. The IPv6 Address is empty, Link Local Address is FE80::290:2BFF:FE60:5084, IPv6 Gateway is empty, and IPv6 DNS Server is empty. A 'Top' button is at the bottom left.

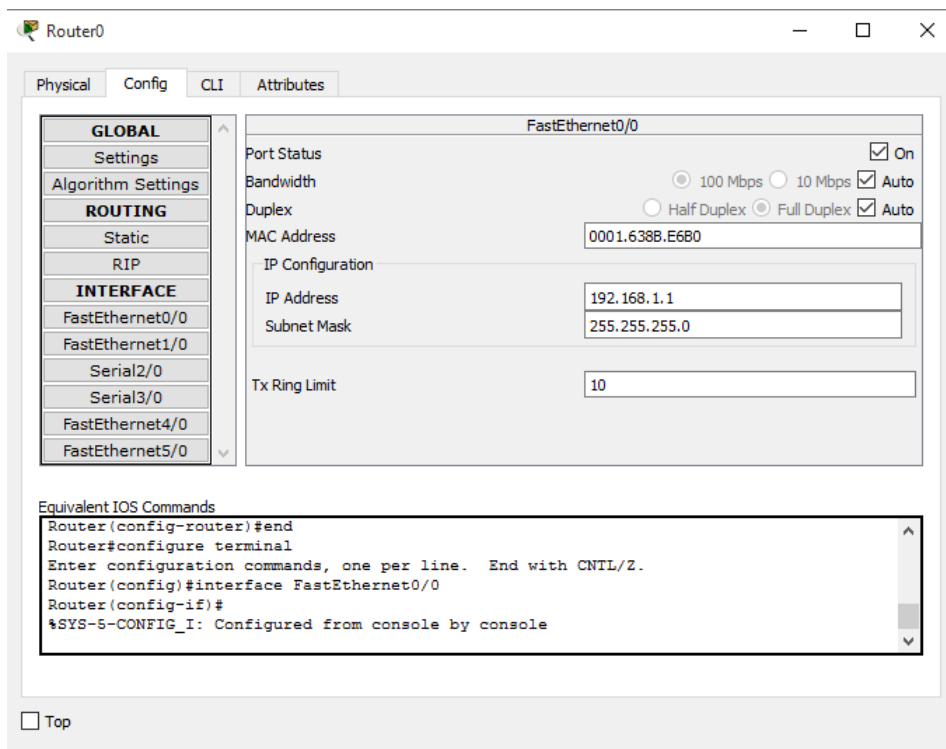
IP Configuration	
<input checked="" type="radio"/> DHCP	<input type="radio"/> Static
IP Address	192.168.3.7
Subnet Mask	255.255.255.0
Default Gateway	192.168.3.1
DNS Server	192.168.1.2

IPv6 Configuration		
<input type="radio"/> DHCP	<input type="radio"/> Auto Config	<input checked="" type="radio"/> 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. 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.

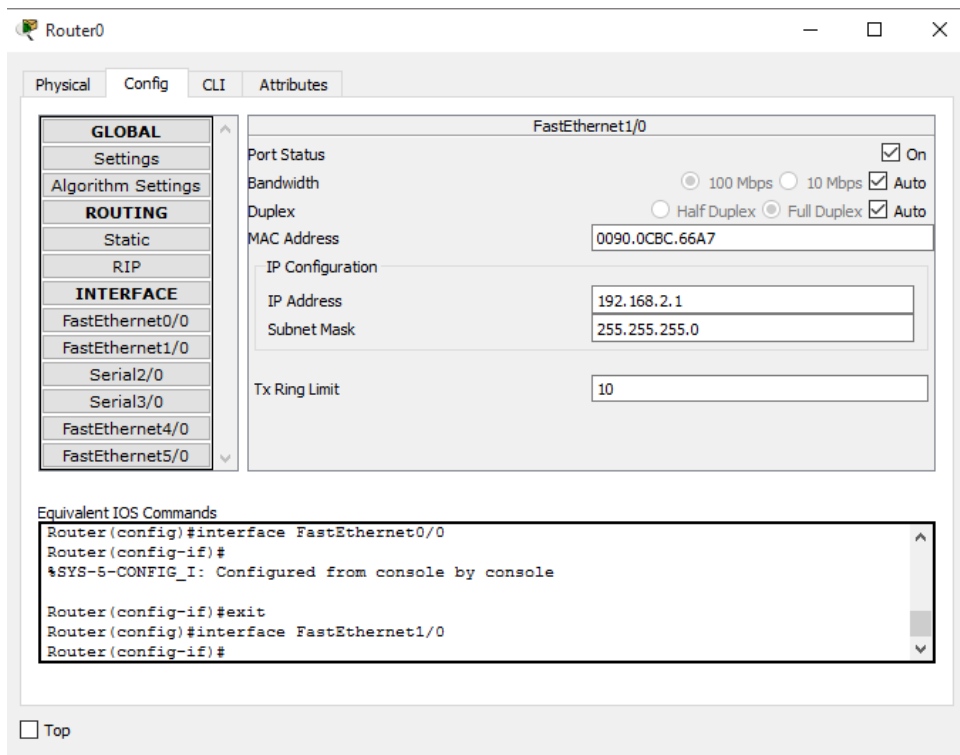
FastEthernet0/0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> 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



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

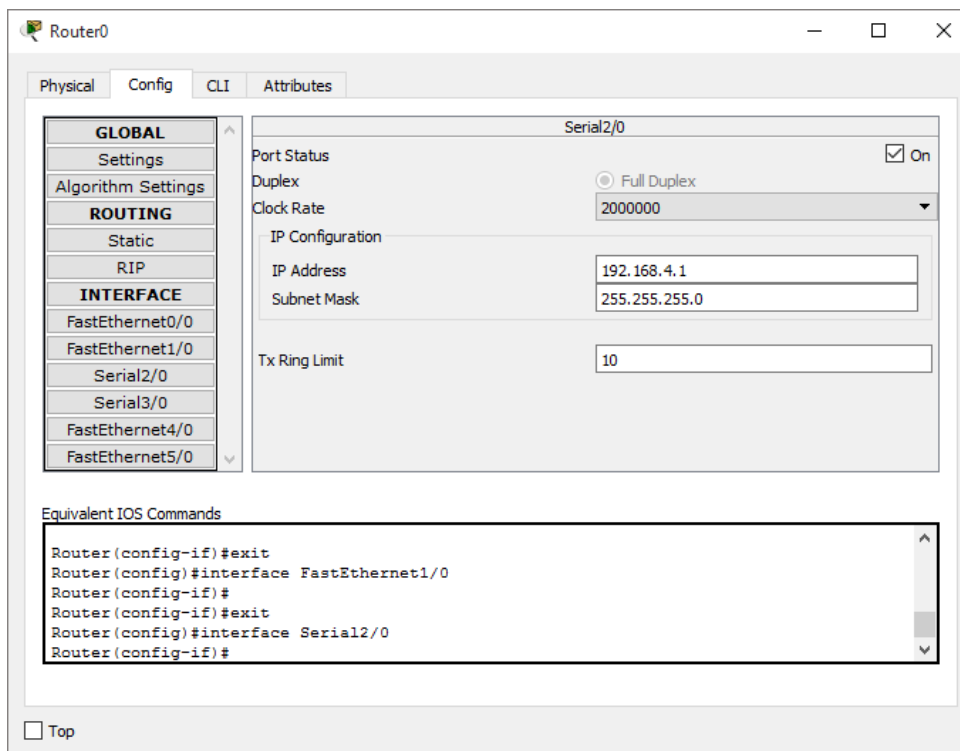
Equivalent IOS Commands

```
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



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

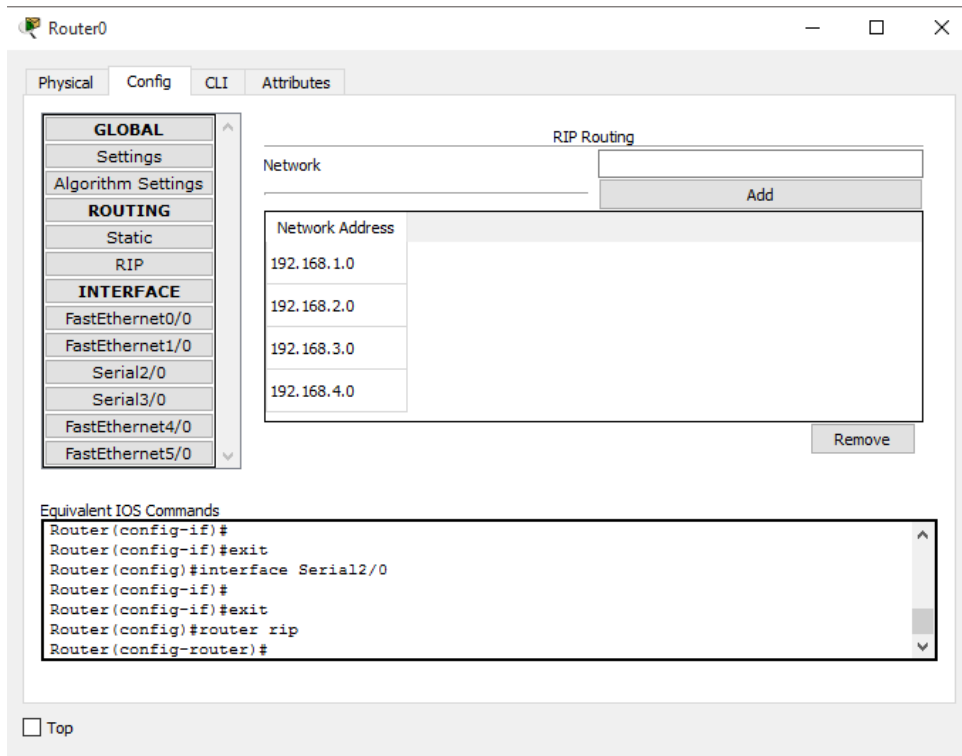
Tx Ring Limit 10

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



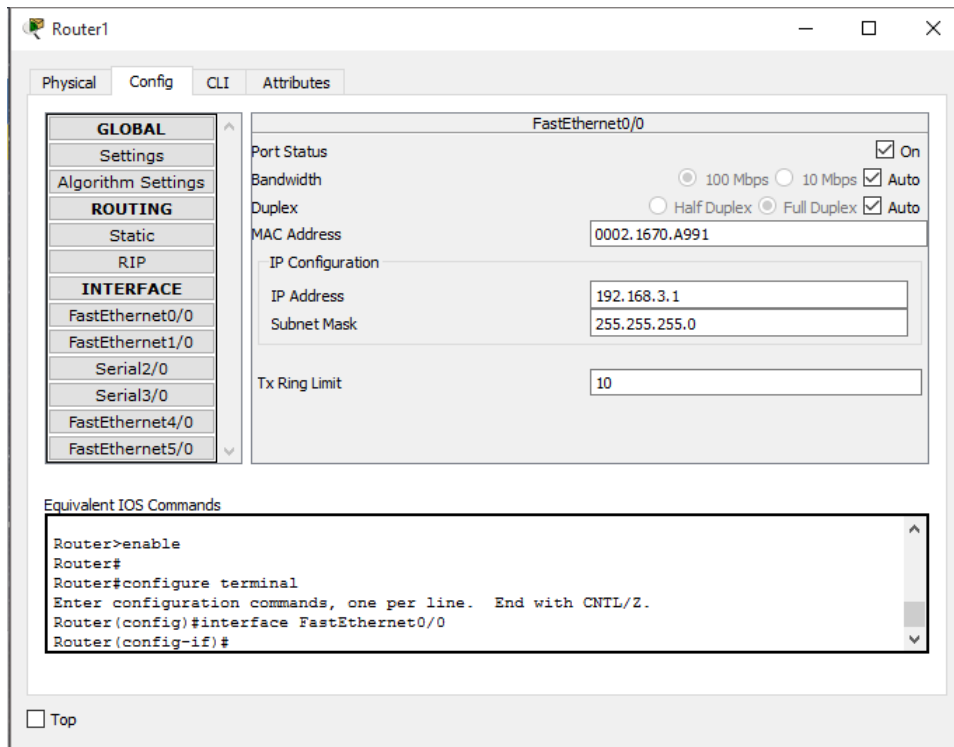
The screenshot shows the configuration window for Router0, specifically the RIP Routing section. The left sidebar contains a tree view with categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), and INTERFACE (FastEthernet0/0, FastEthernet1/0, Serial2/0, Serial3/0, FastEthernet4/0, 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.

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)#
```

• 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 the previous window. The main area is titled 'FastEthernet0/0' and includes fields for Port Status (checked On), Bandwidth (100 Mbps selected), Duplex (Full Duplex selected), 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.

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)#
```

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. The main area shows the configuration for Serial2/0: Port Status is checked 'On'; Duplex is set to 'Full Duplex'; Clock Rate is set to '1200'; IP Configuration shows IP Address '192.168.4.2' and Subnet Mask '255.255.255.0'; and Tx Ring Limit is set to '10'. Below the configuration fields is a text area for 'Equivalent IOS Commands' containing 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 is the same as in the previous screenshot. The 'RIP' option under 'ROUTING' is selected. The main area shows the 'RIP Routing' configuration. There is a 'Network' field with an 'Add' button next to it. Below this is a table of network addresses:

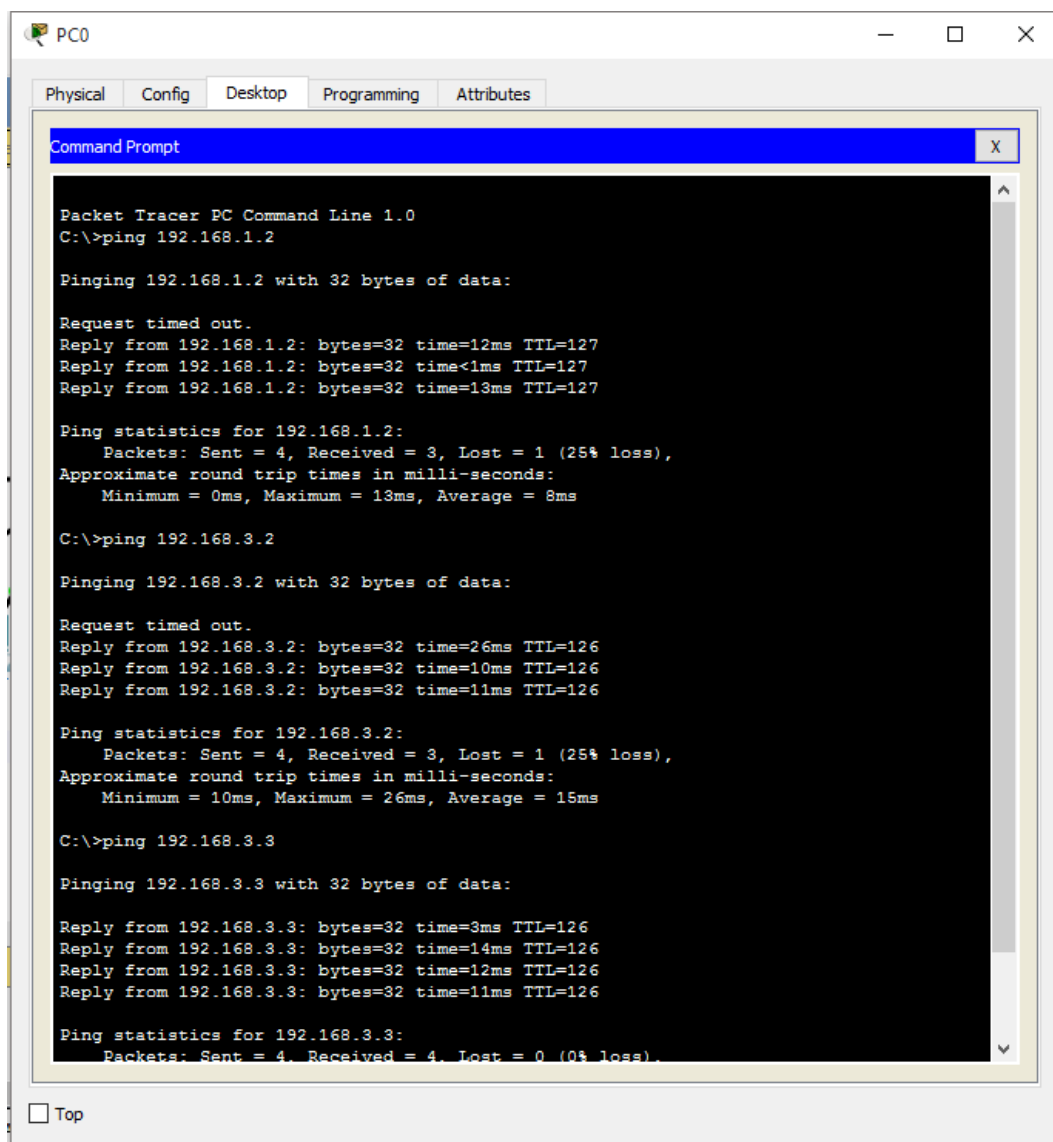
Network Address
192.168.1.0
192.168.2.0
192.168.3.0
192.168.4.0

At the bottom right of the table is a 'Remove' button. Below the table is a text area for 'Equivalent IOS Commands' containing the following commands:

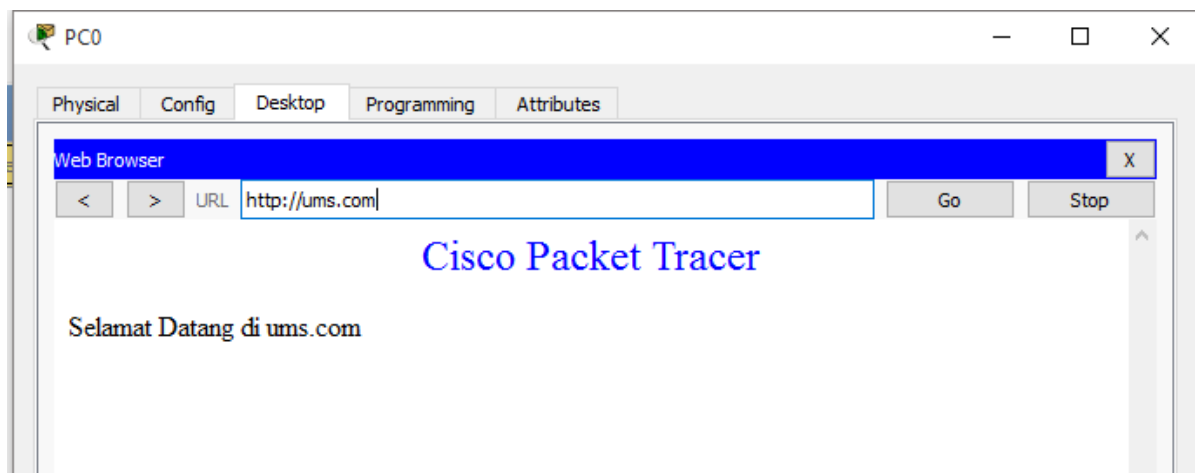
```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial2/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#router rip  
Router(config-router)#
```

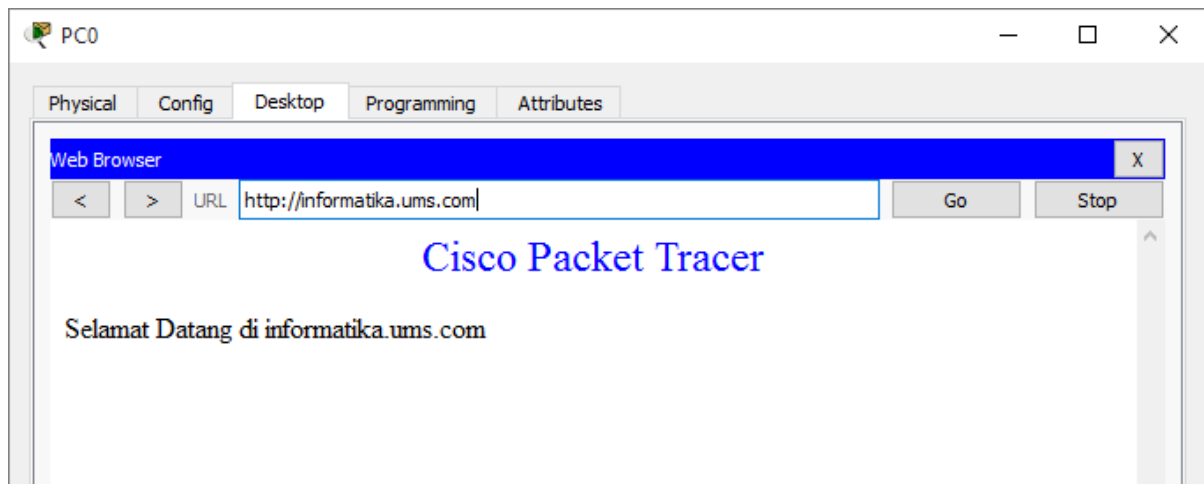
At the bottom left, there is a 'Top' button.

9. Melakukan Ping dari PC 0

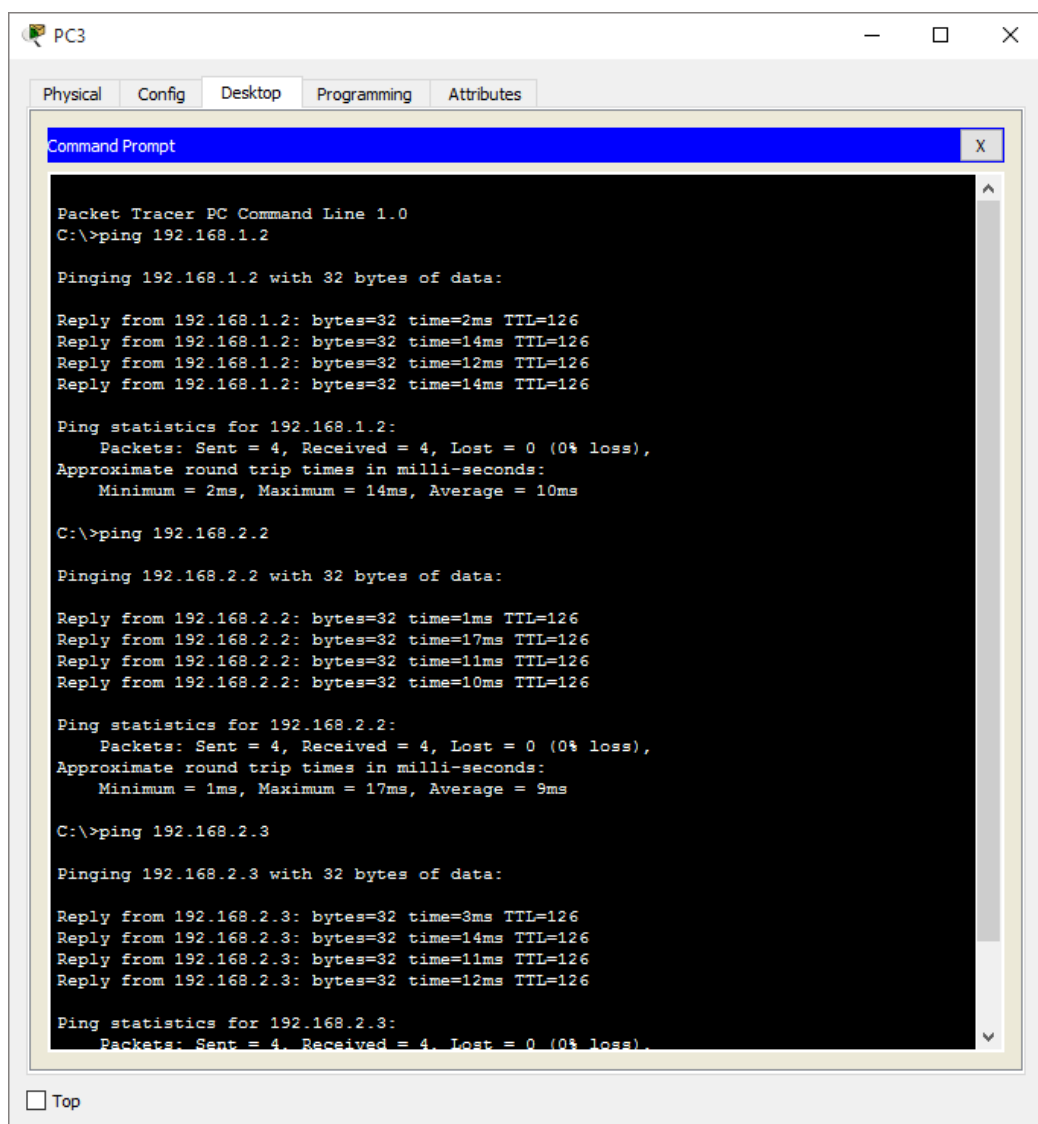


10. Melihat lewat browser





11. Melakukan ping dari PC 3 (Network 192.168.3.0)



12. Membuka lewat browser (DNS)

