

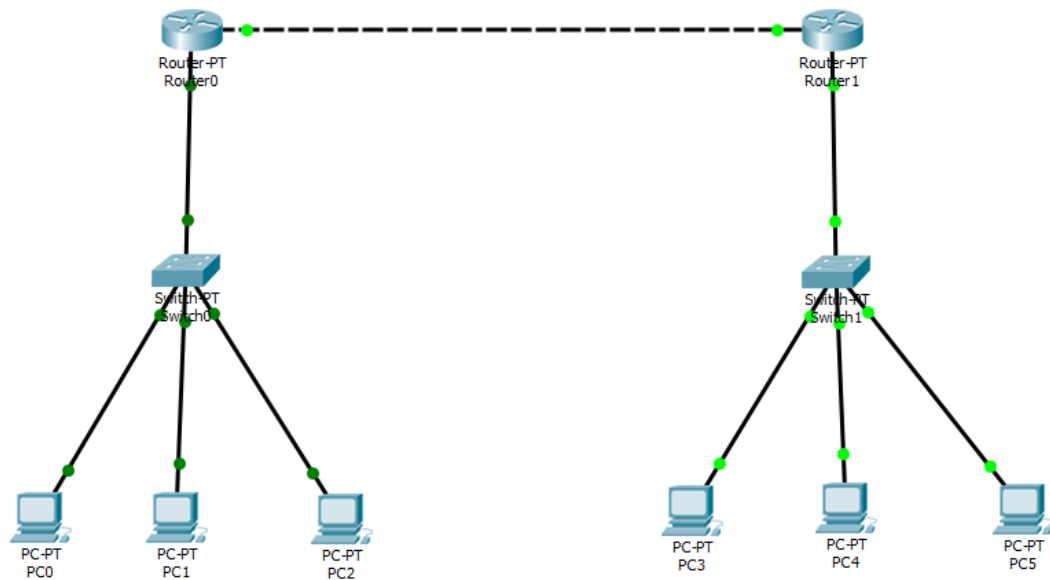
**TUGAS PRAKTIKUM  
JARINGAN KOMPUTER**



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**Kelas/Absen : TI – 2F/20**  
**NIM : 1741720061**

**POLITEKNIK NEGERI MALANG**  
**2018**

- Membuat PC, Switch dan Router lalu menayambungkan semua nya



Setting IP Address pada tiap – tiap PC

PC0

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.20.2

Subnet Mask: 255.255.255.192

Default Gateway: 192.168.20.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:BAFF:FE7A:B421

IPv6 Gateway:

IPv6 DNS Server:

PC1

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.20.3

Subnet Mask 255.255.255.192

Default Gateway 192.168.20.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::230:A3FF:FE9A:639C

IPv6 Gateway

IPv6 DNS Server

PC2

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.20.4

Subnet Mask 255.255.255.192

Default Gateway 192.168.20.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:96FF:FE05:7BD4

IPv6 Gateway

IPv6 DNS Server

PC3

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.1.4

Subnet Mask 255.255.255.192

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20B:BEFF:FE42:745A

IPv6 Gateway

IPv6 DNS Server

PC4

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.1.3

Subnet Mask 255.255.255.192

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:97FF:FE51:90BA

IPv6 Gateway

IPv6 DNS Server

PC5

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.1.2

Subnet Mask 255.255.255.192

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:63FF:FEA4:B997

IPv6 Gateway

IPv6 DNS Server

Konfigurasi IP Address pada router

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 0002.4AB8.8BEB

IP Configuration

IP Address 192.168.20.1

Subnet Mask 255.255.255.192

Tx Ring Limit 10

Router1

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

FastEthernet2/0

**FastEthernet0/0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0030.F204.111C

IP Configuration

IP Address 192.168.1.1

Subnet Mask 255.255.255.192

Tx Ring Limit 10

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

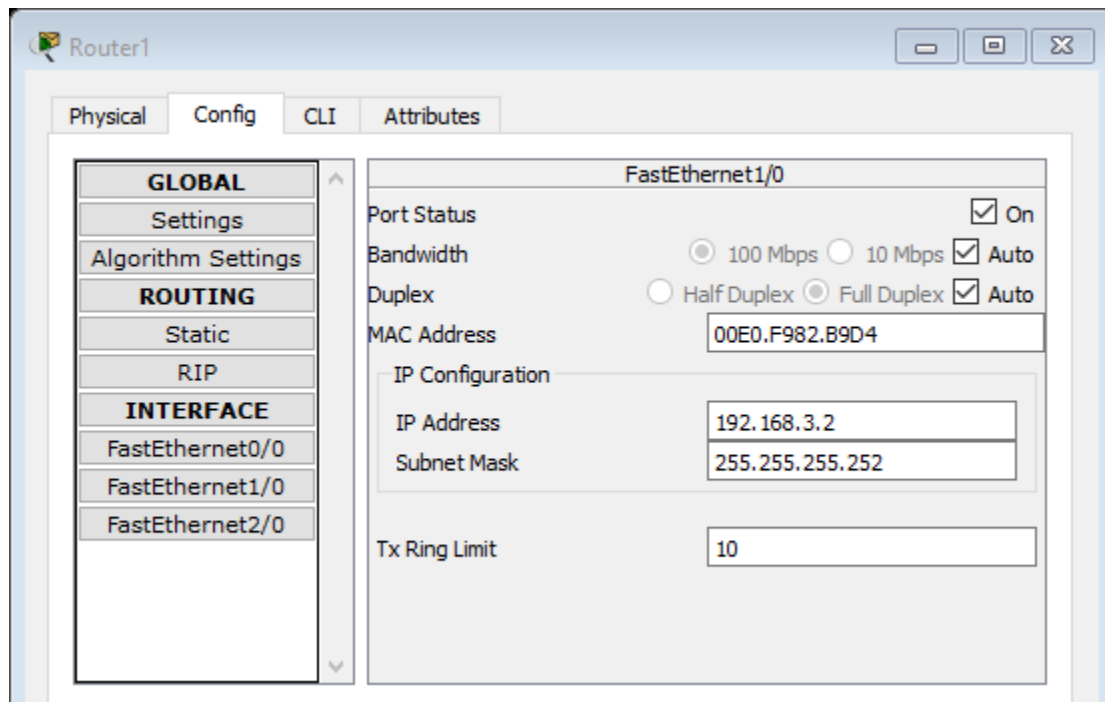
MAC Address 0002.16E6.642A

IP Configuration

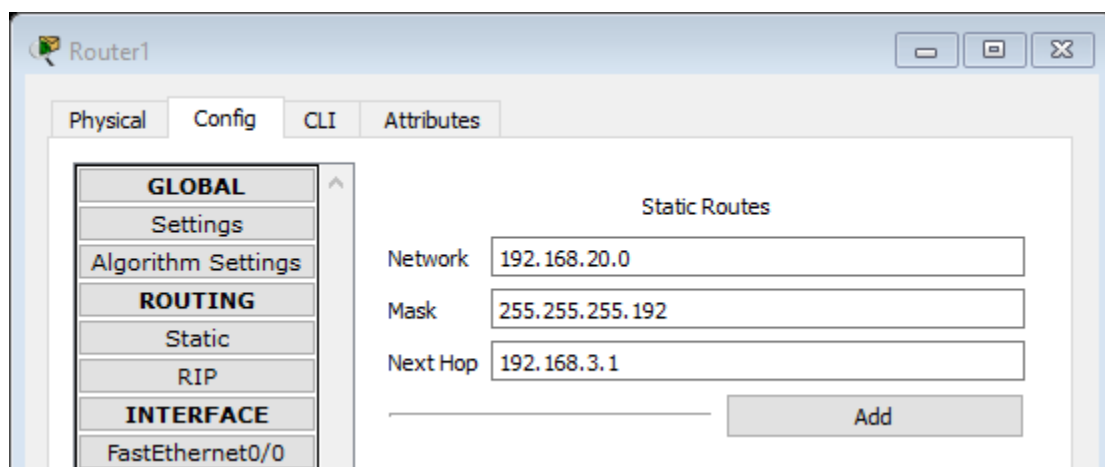
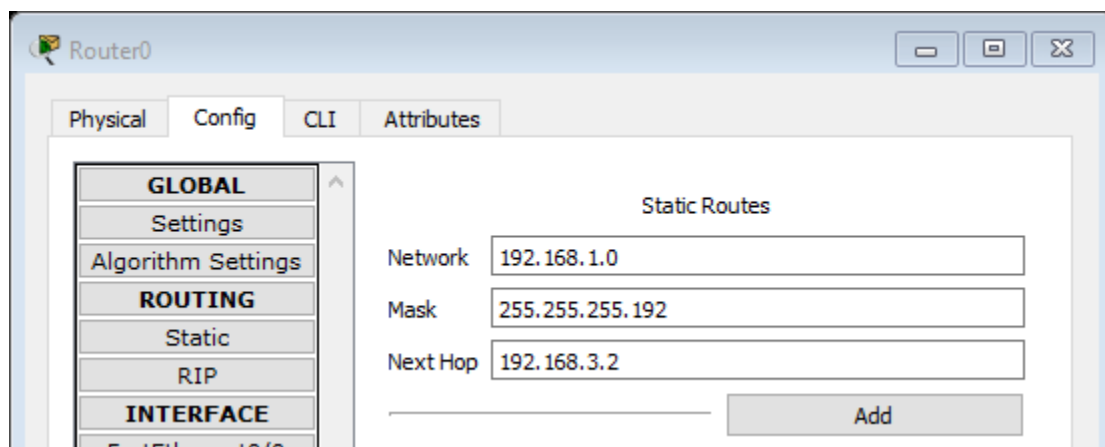
IP Address 192.168.3.1

Subnet Mask 255.255.255.252

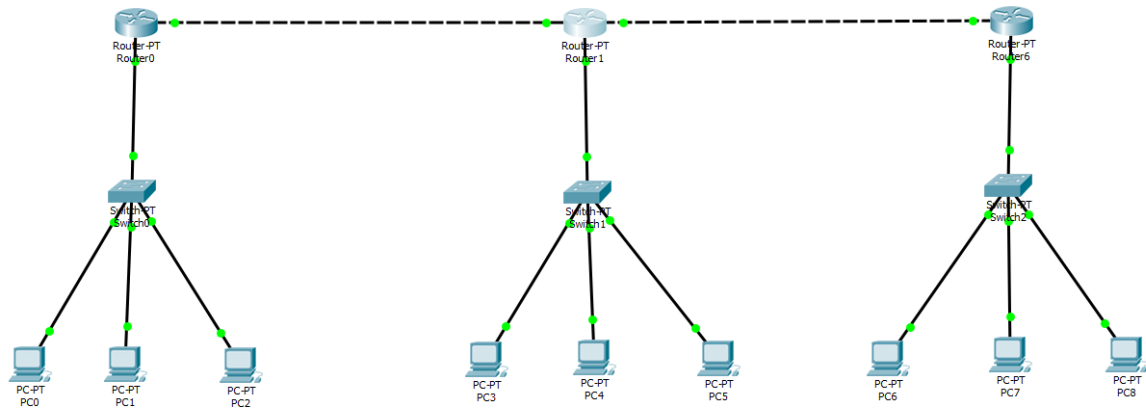
Tx Ring Limit 10



Konfigurasi IP Static



- Menambah satu jaringan lagi



Setting IP Address pada tiap – tiap PC

The screenshot shows the configuration window for PC6. The 'Config' tab is selected. The 'IP Configuration' section is expanded, showing the following settings:

- IP Configuration:**
  - ☐ DHCP
  - ☒ Static
  - IP Address: 192.168.24.2
  - Subnet Mask: 255.255.255.192
  - Default Gateway: 192.168.24.1
  - DNS Server: 0.0.0.0
- IPv6 Configuration:**
  - ☐ DHCP
  - ☐ Auto Config
  - ☒ Static
  - IPv6 Address: [Empty field] / [Empty field]
  - Link Local Address: FE80::20C:CFFF:FE1A:28B2
  - IPv6 Gateway: [Empty field]
  - IPv6 DNS Server: [Empty field]



PC7

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.24.3

Subnet Mask 255.255.255.192

Default Gateway 192.168.24.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::202:16FF:FEA4:E9C0

IPv6 Gateway

IPv6 DNS Server

PC8

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.24.4

Subnet Mask 255.255.255.192

Default Gateway 192.168.24.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:F9FF:FE98:4774

IPv6 Gateway

IPv6 DNS Server

Konfigurasi IP Address pada router (jika ingin menambah router lagi, maka harus mengkonfigurasi IP Address juga pada router lain)

The screenshot shows the Router6 configuration window with the 'Config' tab selected. The left sidebar shows the 'INTERFACE' section with 'FastEthernet0/0' selected. The main area displays the configuration for 'FastEthernet0/0'.

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	000D.BDD8.9CD9
IP Configuration	
IP Address	192.168.24.1
Subnet Mask	255.255.255.192
Tx Ring Limit	10

The screenshot shows the Router6 configuration window with the 'Config' tab selected. The left sidebar shows the 'INTERFACE' section with 'FastEthernet2/0' selected. The main area displays the configuration for 'FastEthernet2/0'.

FastEthernet2/0	
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	00D0.BCCB.5734
IP Configuration	
IP Address	192.168.3.30
Subnet Mask	255.255.255.240
Tx Ring Limit	10

Router6

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

Static Routes

Network 192.168.1.0

Mask 255.255.255.192

Next Hop 192.168.3.23

Add

Router6

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

Static Routes

Network 192.168.20.0

Mask 255.255.255.192

Next Hop 192.168.3.23

Add

Router1

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

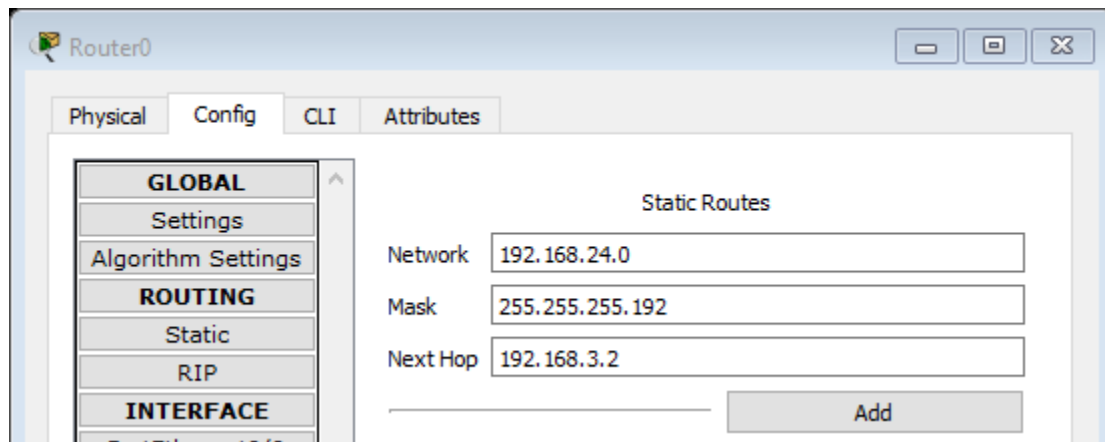
Static Routes

Network 192.168.24.0

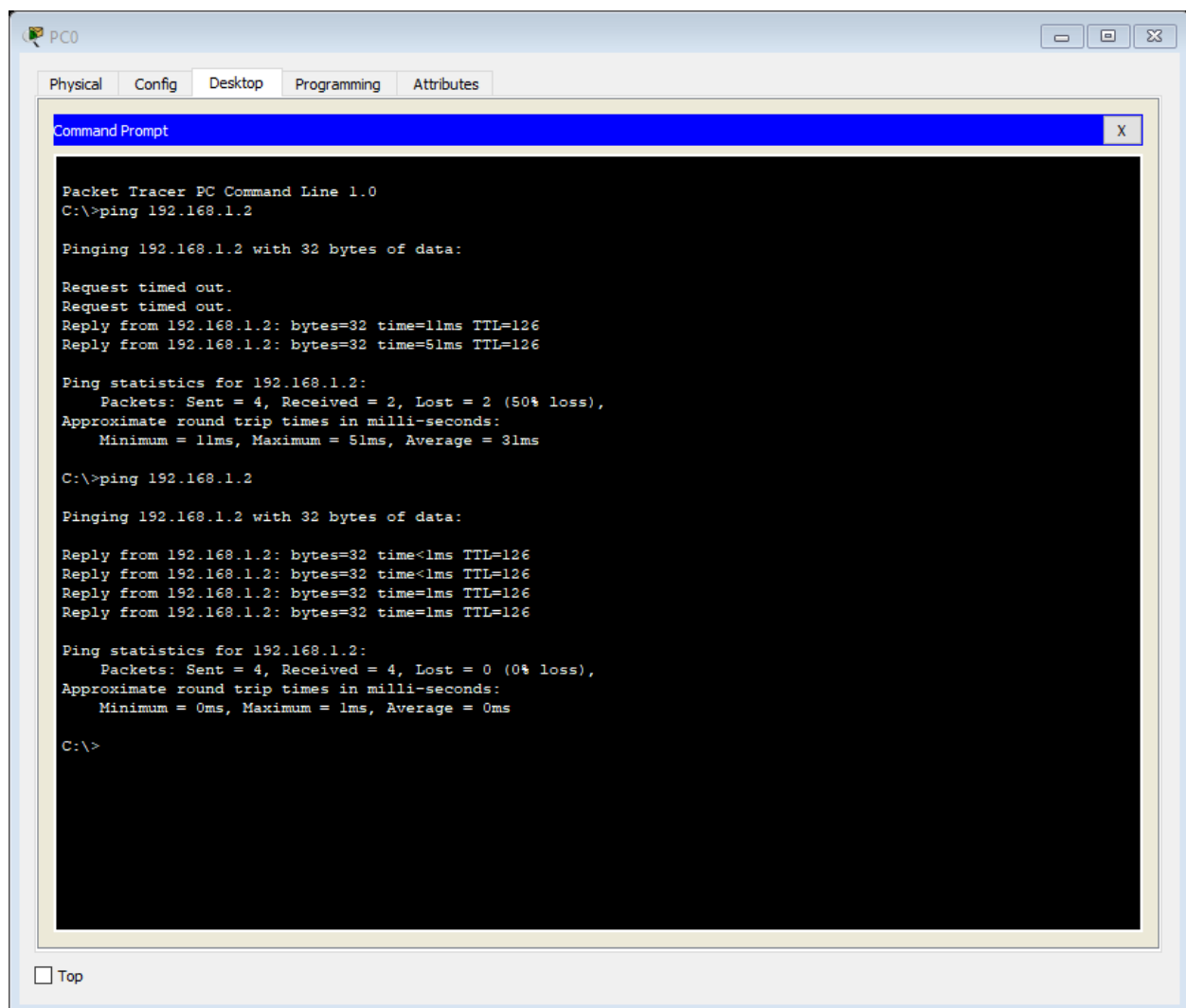
Mask 255.255.255.192

Next Hop 192.168.3.30

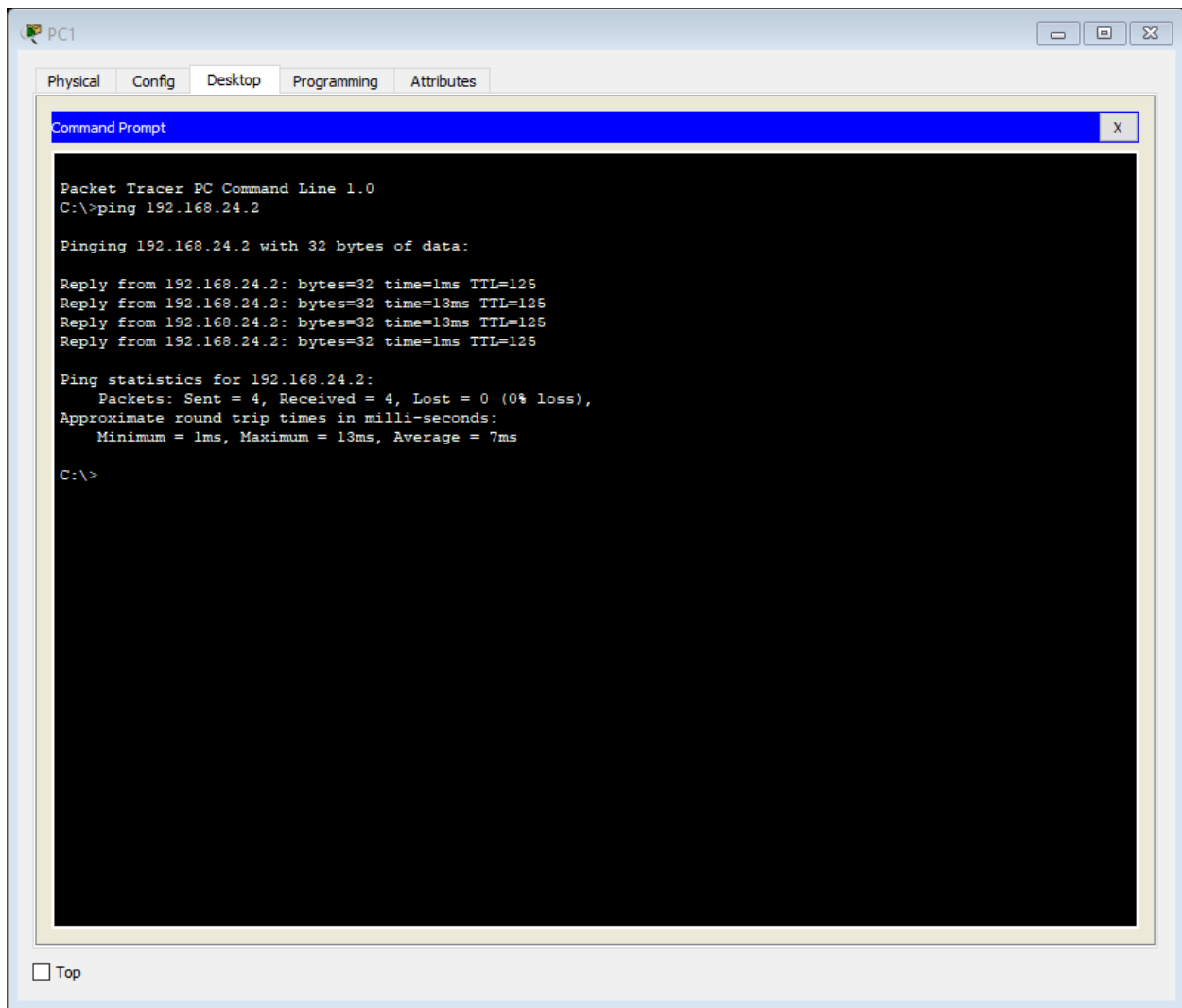
Add



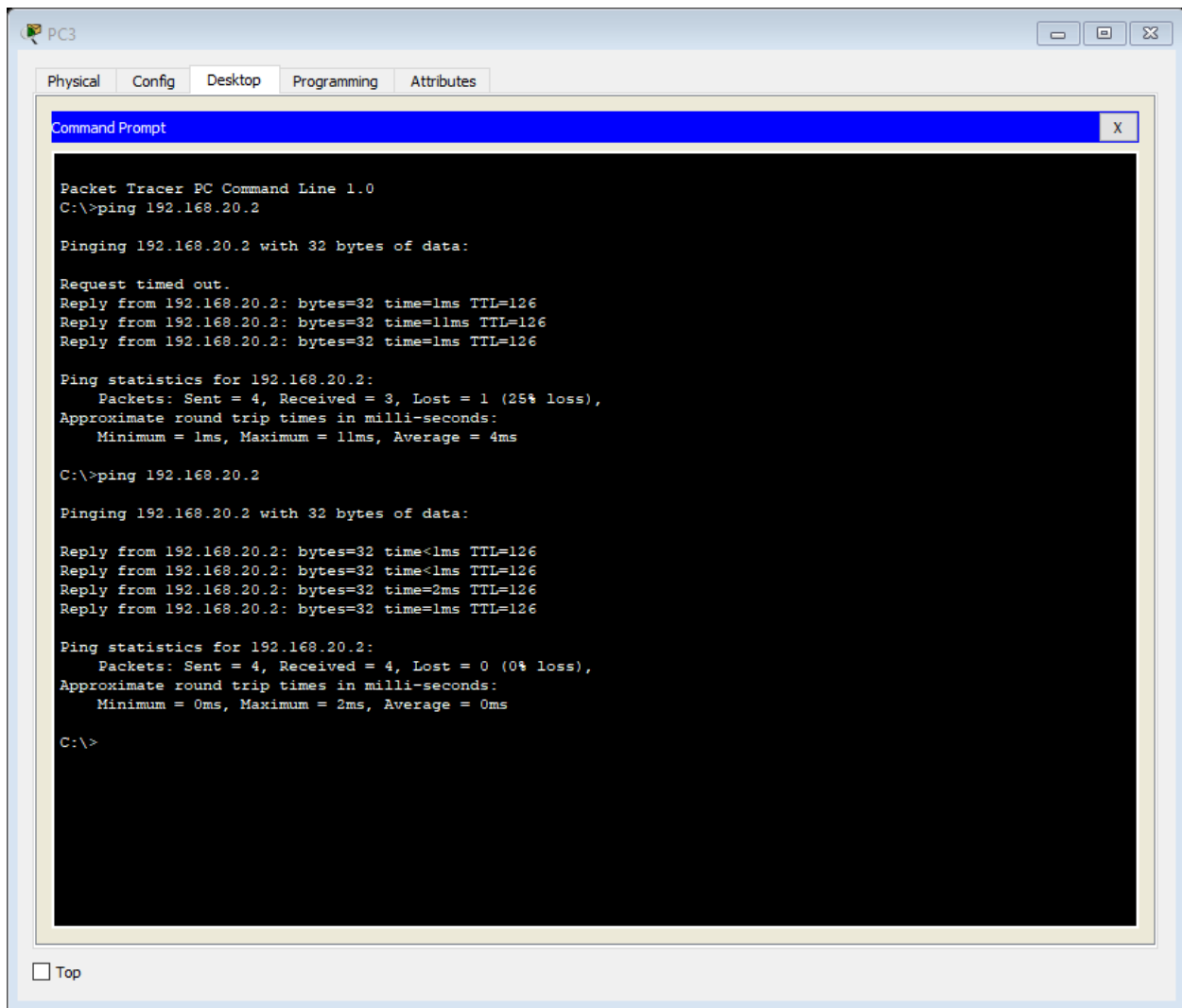
\*Test Ping antara jaringan 1, jaringan 2 & jaringan 3



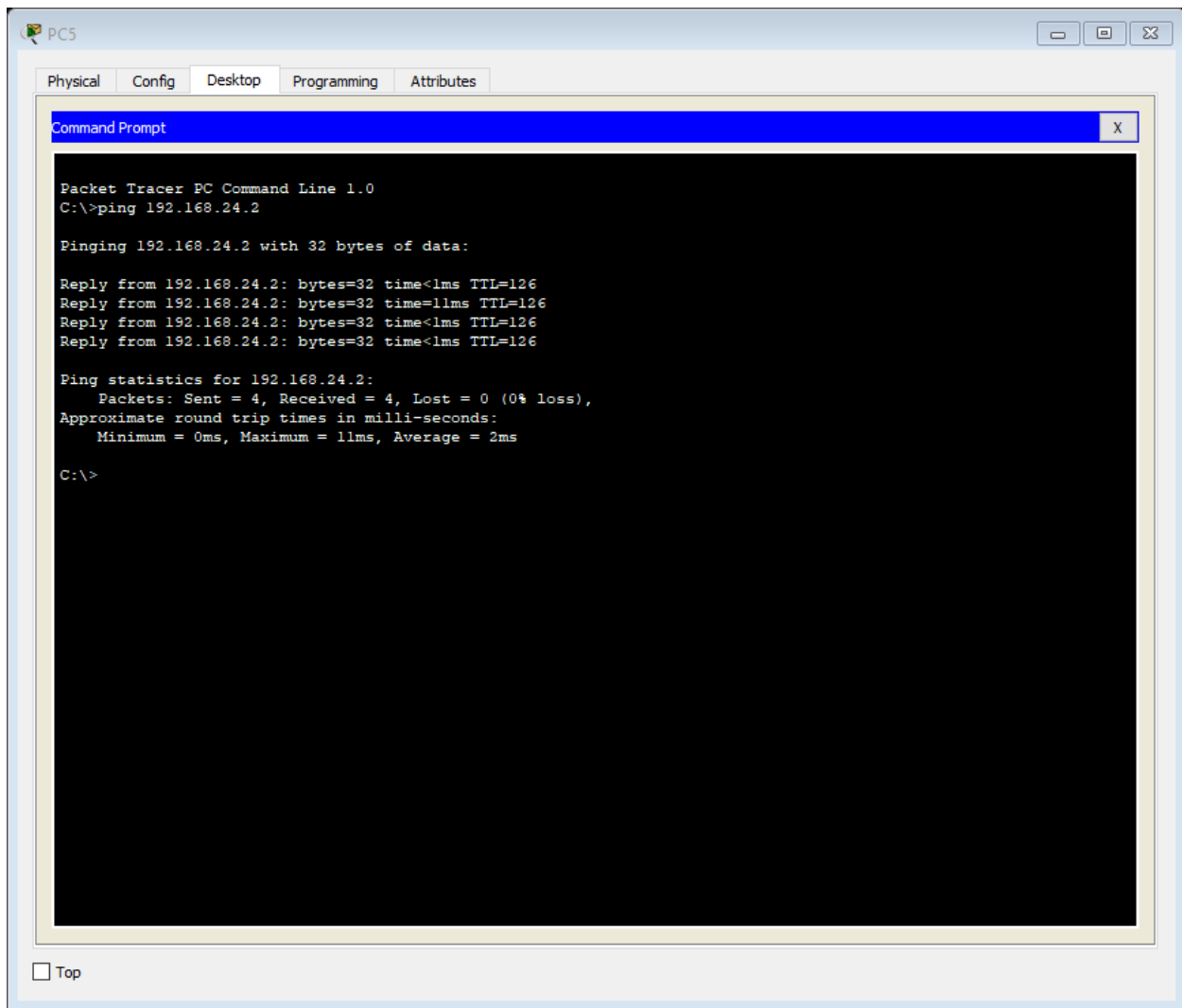
*Jaringan 1 ke jaringan 2*



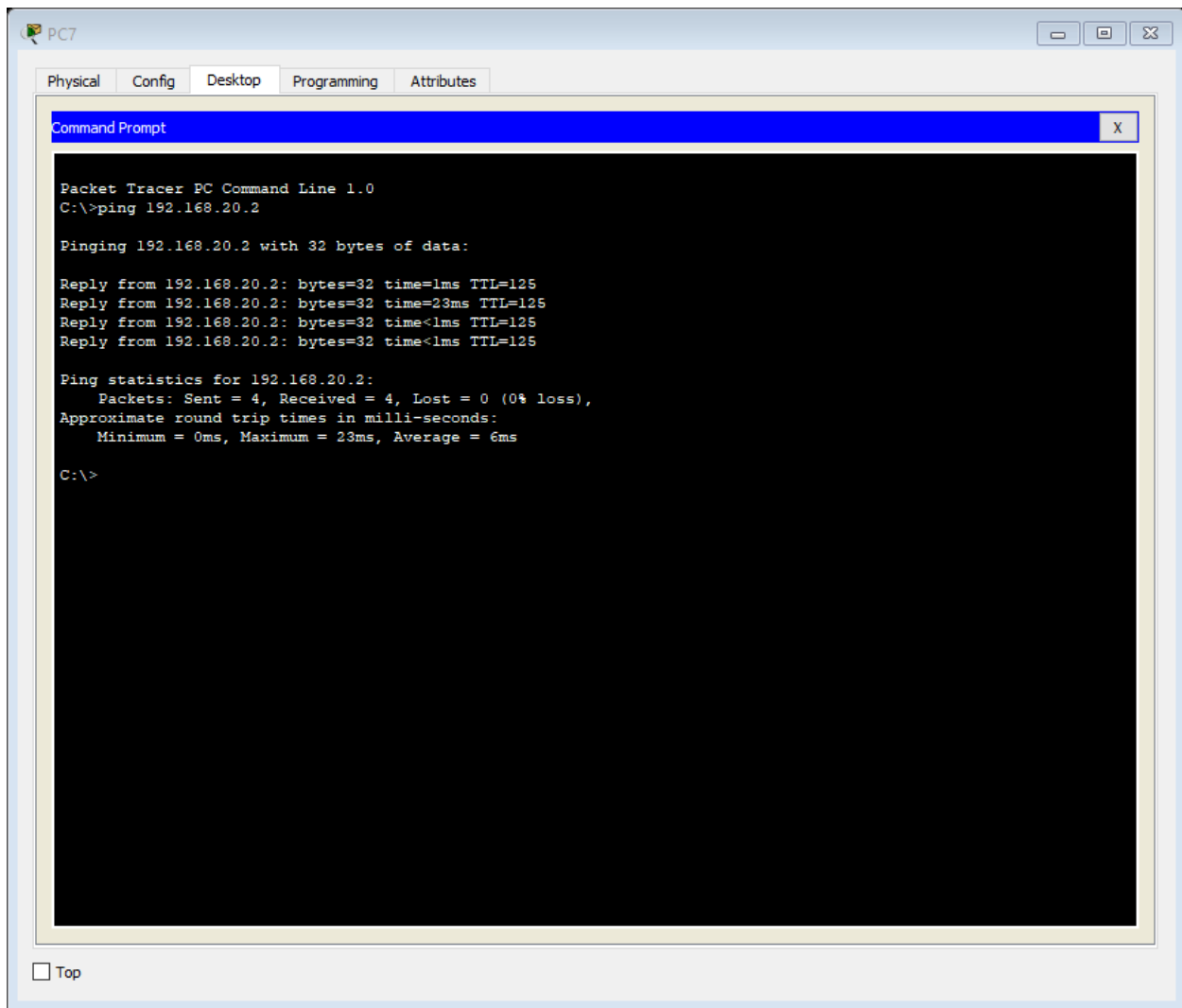
*Jaringan 1 ke jaringan 3*



*Jaringan 2 ke jaringan 1*

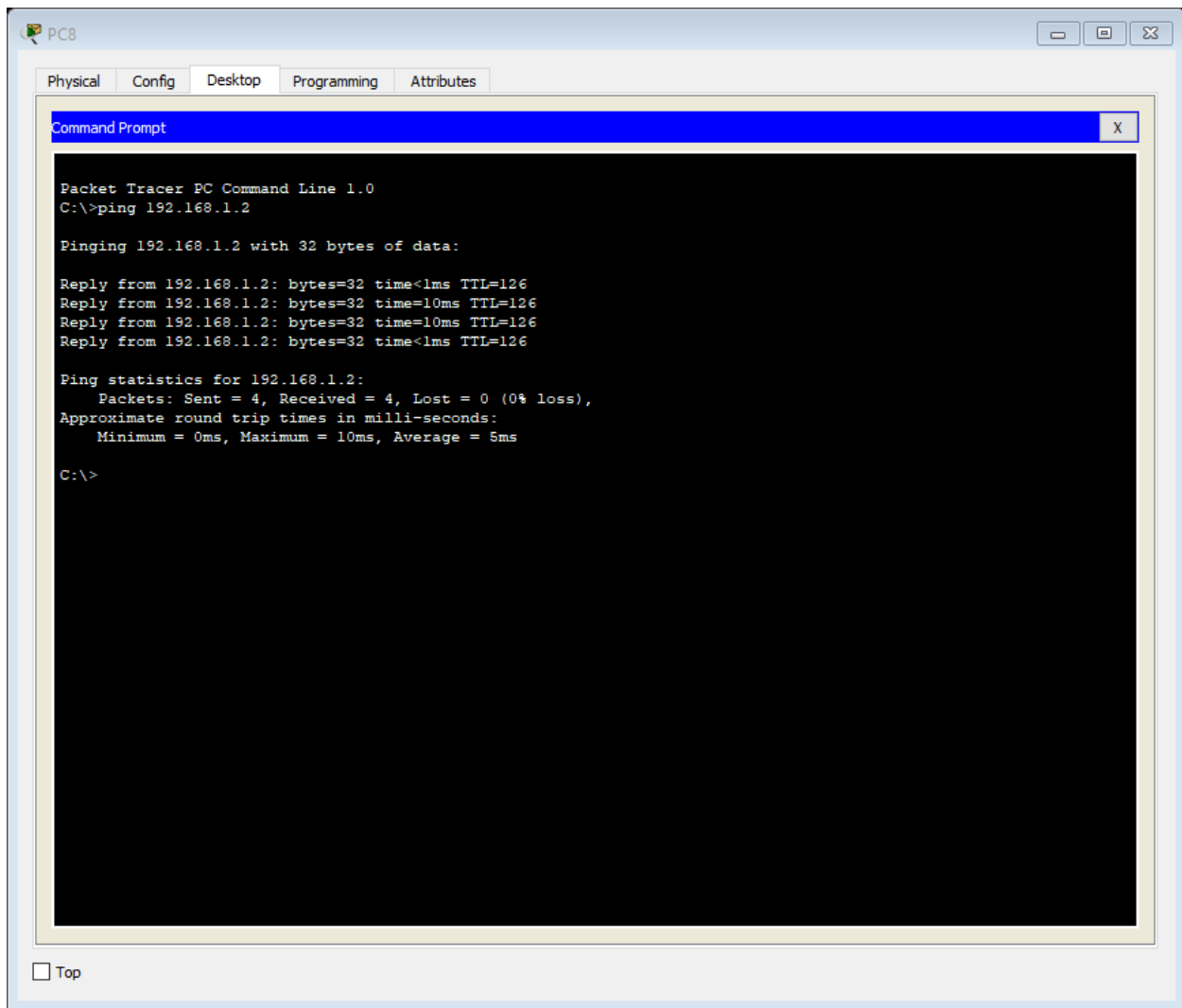


*Jaringan 2 ke jaringan 3*



*Jaringan 3 ke jaringan 1*





*Jaringan 3 ke jaringan 2*