

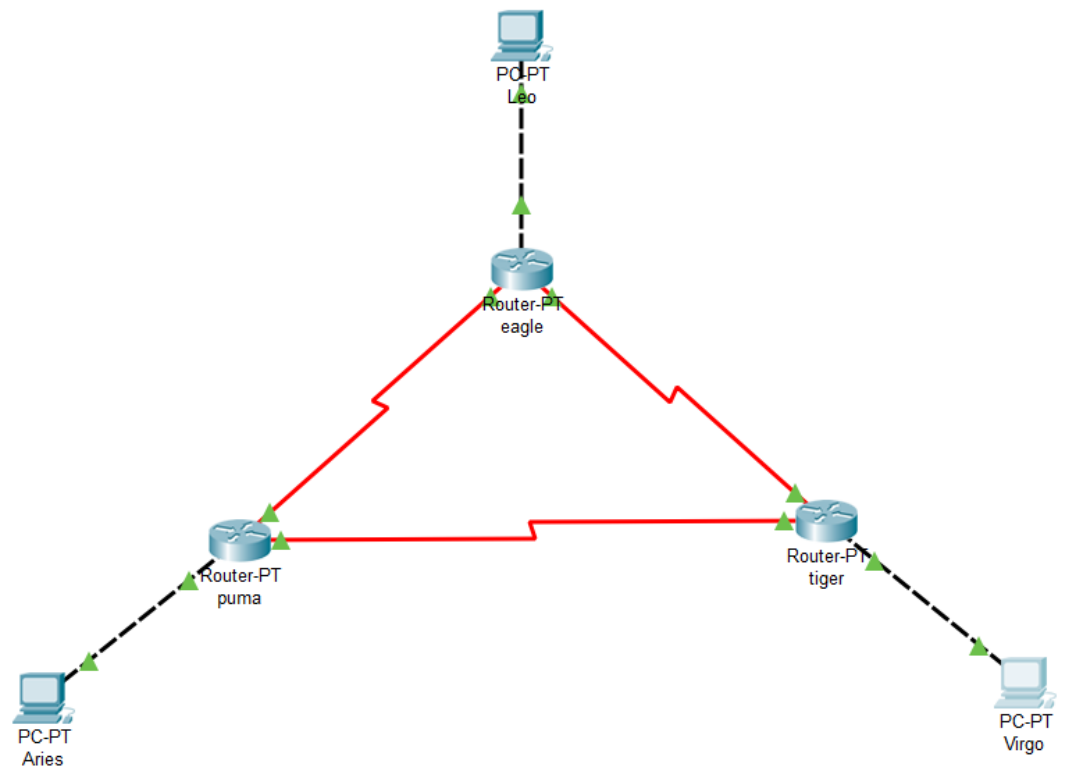
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Kelas : B

MODUL07

1. Buatlah topologi seperti pada gambar



2. Konfigurasi router dengan alamat IP :

- eagle

The screenshot shows the 'eagle' network simulator window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'FastEthernet0/0' selected. The main panel displays the configuration for 'FastEthernet0/0'. The 'Port Status' is 'On'. 'Bandwidth' is set to '100 Mbps'. 'Duplex' is set to 'Full Duplex'. 'MAC Address' is '000C.CF95.A23C'. 'IP Configuration' shows 'IP Address' as '172.21.10.10' and 'Subnet Mask' as '255.255.255.0'. 'Tx Ring Limit' is '10'. The 'Equivalent IOS Commands' section shows the following commands:

```
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
```

The screenshot shows the 'eagle' network simulator window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'Serial2/0' selected. The main panel displays the configuration for 'Serial2/0'. The 'Port Status' is 'On'. 'Duplex' is set to 'Full Duplex'. 'Clock Rate' is '2000000'. 'IP Configuration' shows 'IP Address' as '172.21.1.1' and 'Subnet Mask' as '255.255.255.0'. 'Tx Ring Limit' is '10'. The 'Equivalent IOS Commands' section shows the following commands:

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

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

The screenshot shows the 'eagle' network simulator window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'Serial3/0' selected. The main panel displays the configuration for 'Serial3/0'. The 'Port Status' is 'On'. 'Duplex' is set to 'Full Duplex'. 'Clock Rate' is '2000000'. 'IP Configuration' shows 'IP Address' as '172.21.2.1' and 'Subnet Mask' as '255.255.255.0'. 'Tx Ring Limit' is '10'. The 'Equivalent IOS Commands' section shows the following commands:

```
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#
```

The screenshot shows the 'eagle' network simulator window with the 'CLI' tab selected. The main panel displays the 'IOS Command Line Interface'. The text in the window is as follows:

```
Press RETURN to get started.

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# ip route 172.21.20.0 255.255.255.0 172.21.1.2
Router(config)# ip route 172.21.30.0 255.255.255.0 172.21.2.3
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Ctrl+F6 to exit CLI focus
```

- puma

puma

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 000D.BD69.ACDA

IP Configuration

IP Address 172.21.20.20

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#ip address 172.21.20.20 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top

puma

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 172.21.1.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
```

☐ Top

puma

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial3/0

Port Status ☒ On

Duplex ☒ Full Duplex

Clock Rate 1200

IP Configuration

IP Address 172.21.3.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#
```

☐ Top

puma

Physical Config **CLI** Attributes

IOS Command Line Interface

Press RETURN to get started.

```
Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.1.1
Router(config)#ip route 172.21.30.0 255.255.255.0 172.21.3.3
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

- tiger

The screenshot shows the 'tiger' configuration window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'FastEthernet0/0' selected. The main panel shows configuration for 'FastEthernet0/0'. The 'Port Status' section has 'On' checked. The 'Duplex' section has 'Full Duplex' selected and 'Auto' checked. The 'MAC Address' is '0004.9AB2.D23B'. The 'IP Configuration' section has 'IP Address' '172.21.30.30' and 'Subnet Mask' '255.255.255.0'. The 'Tx Ring Limit' is '10'. Below the configuration fields is a text area 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 is a 'Top' button.

The screenshot shows the 'tiger' configuration window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'Serial2/0' selected. The main panel shows configuration for 'Serial2/0'. The 'Port Status' section has 'On' checked. The 'Duplex' section has 'Full Duplex' selected. The 'Clock Rate' is '2000000'. The 'IP Configuration' section has 'IP Address' '172.21.3.3' and 'Subnet Mask' '255.255.255.0'. The 'Tx Ring Limit' is '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 is a 'Top' button.

The screenshot shows the 'tiger' configuration window with the 'Config' tab selected. The left sidebar has a tree view with 'INTERFACE' expanded and 'Serial3/0' selected. The main panel shows configuration for 'Serial3/0'. The 'Port Status' section has 'On' checked. The 'Duplex' section has 'Full Duplex' selected. The 'Clock Rate' is '2000000'. The 'IP Configuration' section has 'IP Address' '172.21.2.3' and 'Subnet Mask' '255.255.255.0'. The 'Tx Ring Limit' is '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 Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#
```

At the bottom left is a 'Top' button.

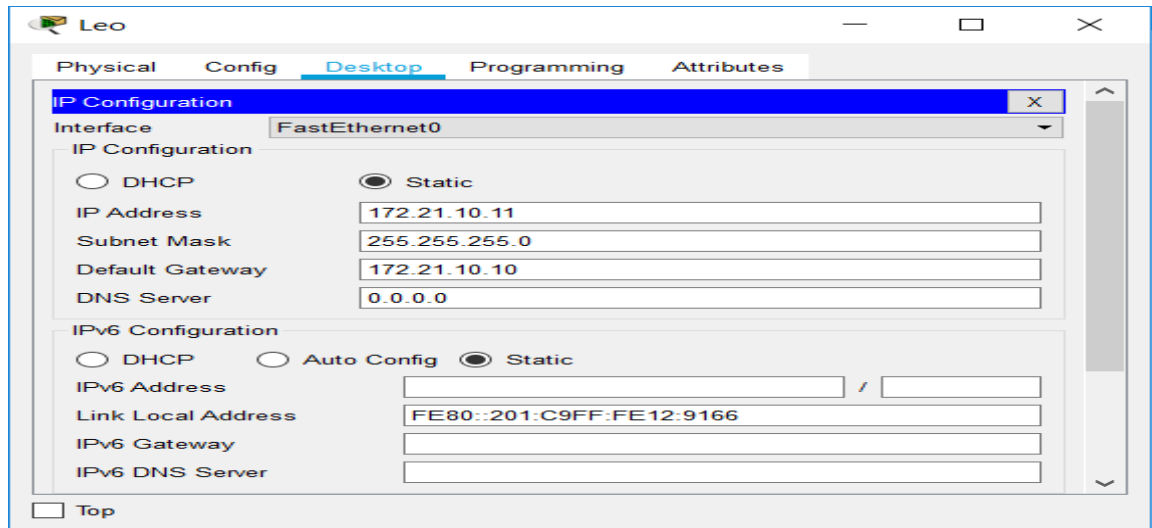
The screenshot shows the 'tiger' configuration window with the 'CLI' tab selected. The main panel shows the 'IOS Command Line Interface'. The text area contains the following text:

```
Press RETURN to get started.

Router>en
Router#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 172.21.10.0 255.255.255.0 172.21.2.1
Router(config)#ip route 172.21.20.0 255.255.255.0 172.21.3.2
Router(config)#exit
Router#
$SYS-5-CONFIG_I: Configured from console by console
```

At the bottom left is a 'Top' button. At the bottom right are 'Copy' and 'Paste' buttons.

3. konfigurasi tiap PC dengan nama dan alamat IP :



Leo

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.10.11

Subnet Mask: 255.255.255.0

Default Gateway: 172.21.10.10

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

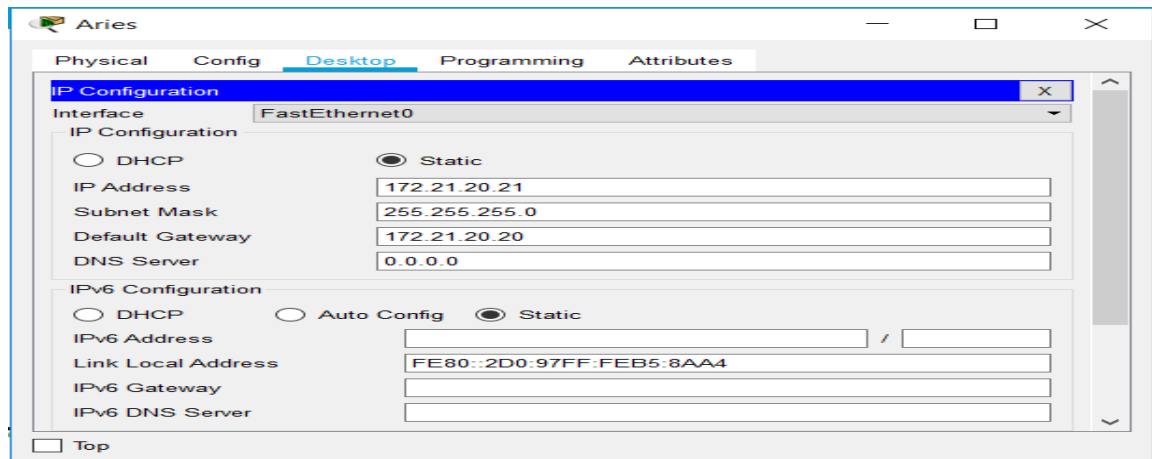
IPv6 Address: /

Link Local Address: FE80::201:C9FF:FE12:9166

IPv6 Gateway:

IPv6 DNS Server:

☐ Top



Aries

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.20.21

Subnet Mask: 255.255.255.0

Default Gateway: 172.21.20.20

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

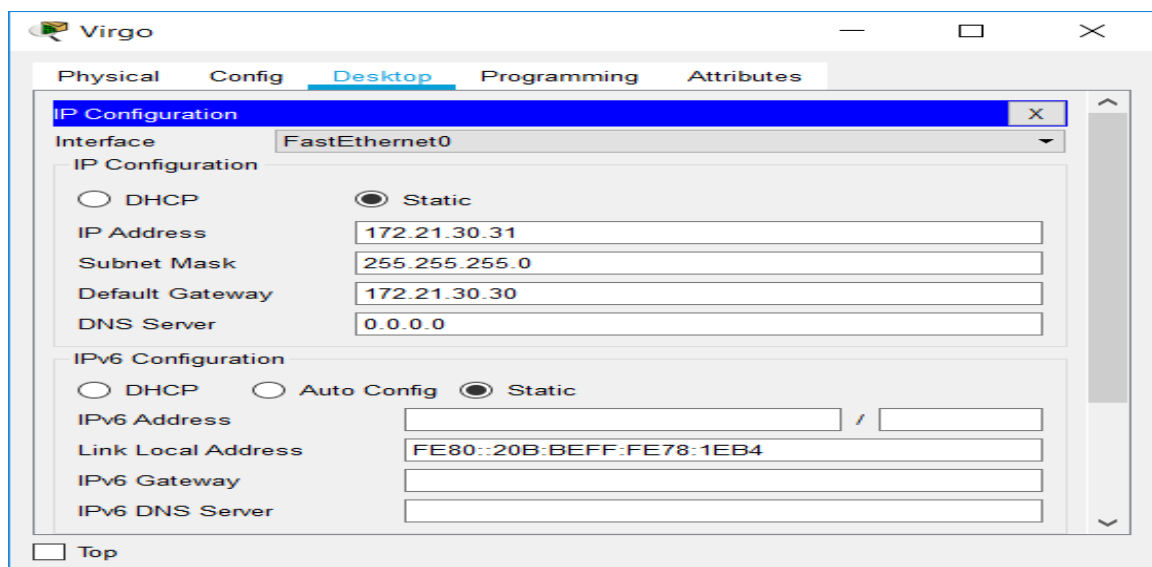
IPv6 Address: /

Link Local Address: FE80::2D0:97FF:FEB5:8AA4

IPv6 Gateway:

IPv6 DNS Server:

☐ Top



Virgo

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 172.21.30.31

Subnet Mask: 255.255.255.0

Default Gateway: 172.21.30.30

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

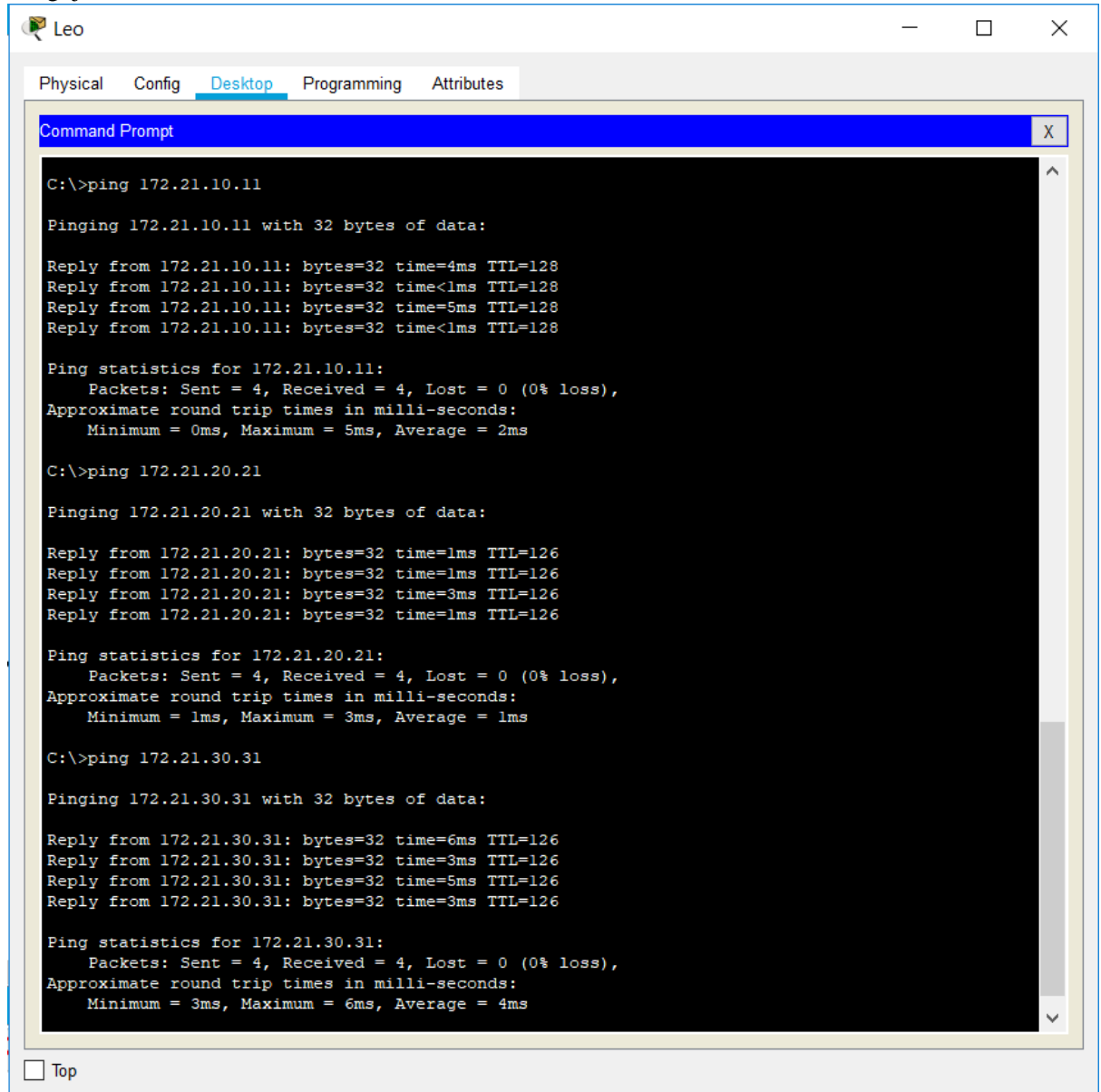
Link Local Address: FE80::20B:BEFF:FE78:1EB4

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

4. Pengujian :



The screenshot shows a window titled "Leo" with tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is active, displaying a "Command Prompt" window. The Command Prompt shows the execution of three ping commands from the C:\ directory to different IP addresses: 172.21.10.11, 172.21.20.21, and 172.21.30.31. Each command is followed by its output, including the number of bytes, response times, TTL values, and statistics for packets sent, received, and lost, along with approximate round trip times.

```
C:\>ping 172.21.10.11

Pinging 172.21.10.11 with 32 bytes of data:

Reply from 172.21.10.11: bytes=32 time=4ms TTL=128
Reply from 172.21.10.11: bytes=32 time<1ms TTL=128
Reply from 172.21.10.11: bytes=32 time=5ms TTL=128
Reply from 172.21.10.11: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.10.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 2ms

C:\>ping 172.21.20.21

Pinging 172.21.20.21 with 32 bytes of data:

Reply from 172.21.20.21: bytes=32 time=1ms TTL=126
Reply from 172.21.20.21: bytes=32 time=1ms TTL=126
Reply from 172.21.20.21: bytes=32 time=3ms TTL=126
Reply from 172.21.20.21: bytes=32 time=1ms TTL=126

Ping statistics for 172.21.20.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\>ping 172.21.30.31

Pinging 172.21.30.31 with 32 bytes of data:

Reply from 172.21.30.31: bytes=32 time=6ms TTL=126
Reply from 172.21.30.31: bytes=32 time=3ms TTL=126
Reply from 172.21.30.31: bytes=32 time=5ms TTL=126
Reply from 172.21.30.31: bytes=32 time=3ms TTL=126

Ping statistics for 172.21.30.31:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 6ms, Average = 4ms
```

☐ Top