

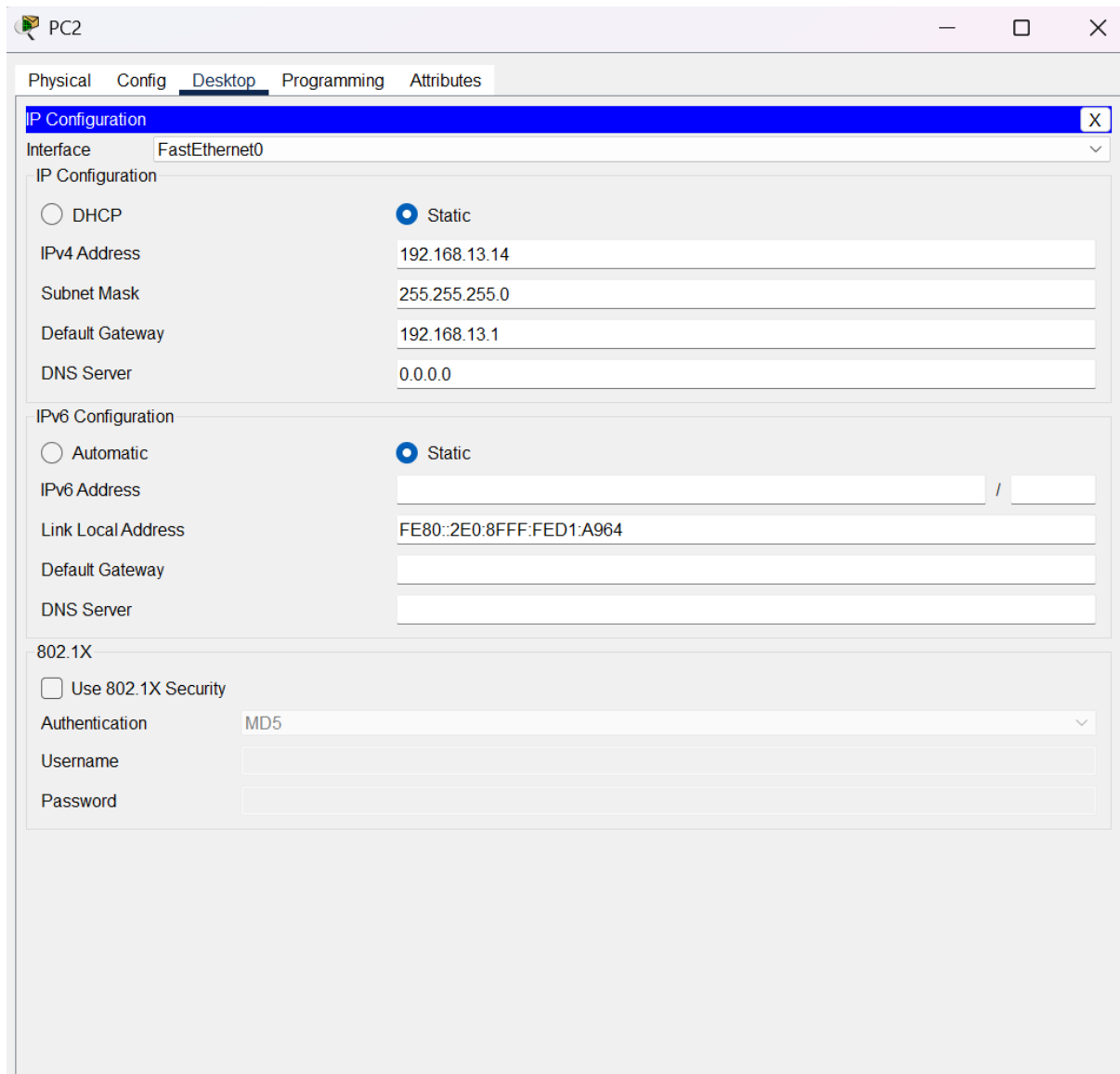
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NIM : H1H024013

Shift Awal : A

Shift Akhir : C

1. Konfigurasi IP dan Screenshot



The screenshot shows a network configuration window titled "PC2" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Config" tab is active, and the "IP Configuration" window is open. The interface is set to "FastEthernet0".

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.13.14

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.13.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2E0:8FFF:FED1:A964

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

PC3

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

DHCP

Static

IPv4 Address

192.168.13.15

Subnet Mask

255.255.255.0

Default Gateway

192.168.13.1

DNS Server

0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

/

Link Local Address

FE80::20A:F3FF:FE0D:BC37

Default Gateway

DNS Server

802.1X

Use 802.1X Security

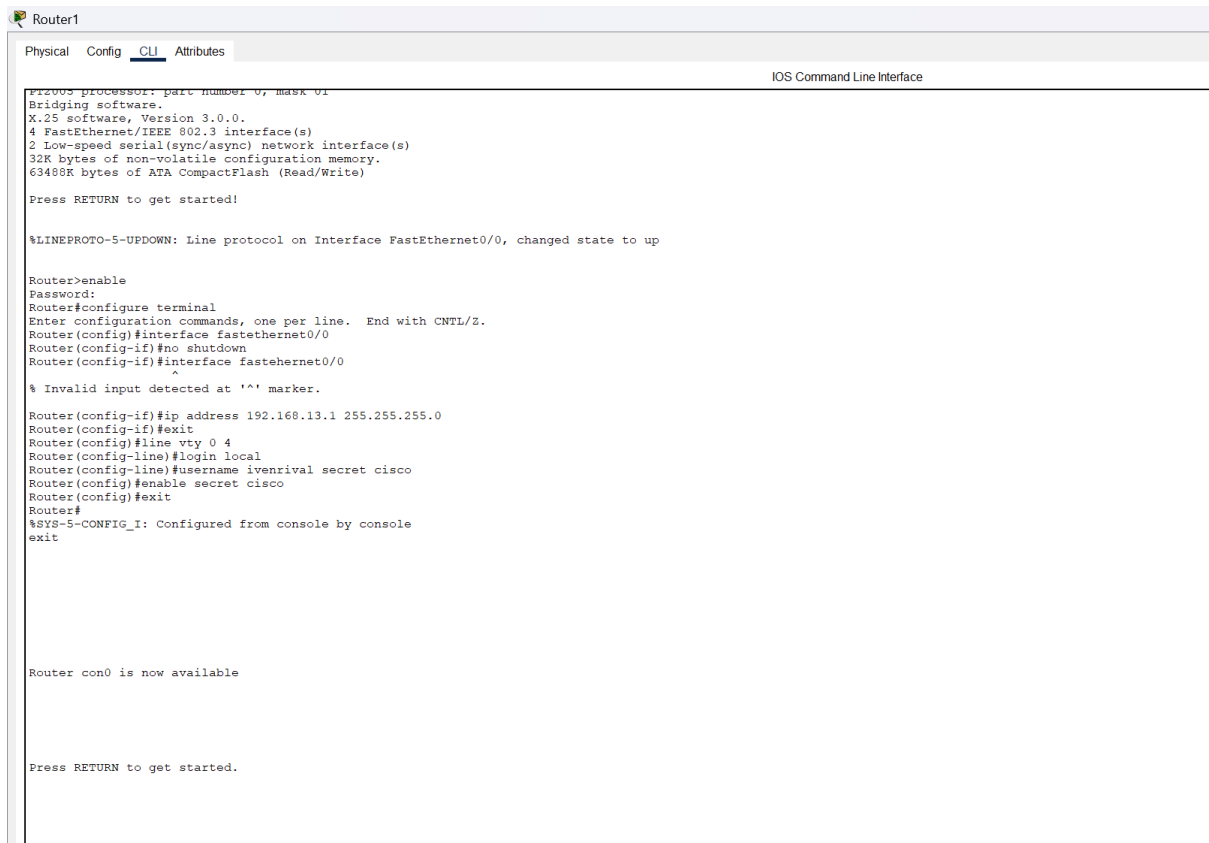
Authentication

MD5

Username

Password

2. Telnet remote screenshoot



```
Router1
Physical Config CLI Attributes
IOS Command Line Interface

r12005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63486K bytes of ATA CompactFlash (Read/Write)

Press RETURN to get started!

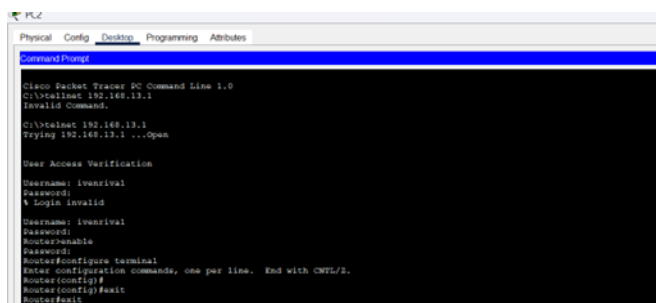
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router>enable
Password:
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet0/0
Router(config-if)#no shutdown
Router(config-if)#interface fastethernet0/0
^
% Invalid input detected at '^' marker.

Router(config-if)#ip address 192.168.13.1 255.255.255.0
Router(config-if)#exit
Router(config)#line vty 0 4
Router(config-line)#login local
Router(config-line)#username ivenrival secret cisco
Router(config)#enable secret cisco
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
exit

Router con0 is now available

Press RETURN to get started.
```



```
PC2
Physical Config Desktop Programming Attributes
Command Prompt

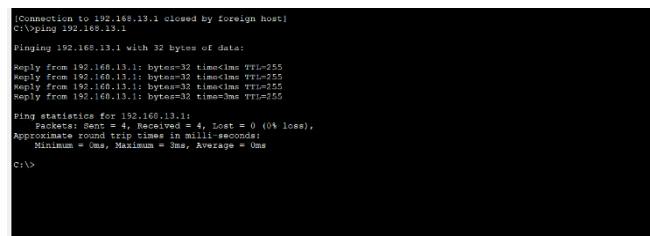
C:\>ping 192.168.13.1
Invalid Command.

C:\>telnet 192.168.13.1
Trying 192.168.13.1 ...Open

User Access Verification
Username: ivenrival
Password:
% Login invalid

Username: ivenrival
Password:
Router>enable
Password:
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#exit
Router#exit
```

3. Ping Output



```
[Connection to 192.168.13.1 closed by foreign host]
C:\>ping 192.168.13.1

Pinging 192.168.13.1 with 32 bytes of data:

Reply from 192.168.13.1: bytes=32 time=1ms TTL=255
Reply from 192.168.13.1: bytes=32 time=1ms TTL=255
Reply from 192.168.13.1: bytes=32 time=1ms TTL=255
Reply from 192.168.13.1: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.13.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 0ms

C:\>
```

4. Analisis Hasil

- 192.168.67.1/24
- 213.68.2.13/22
- 37.13.69.14/27

d. 26.5.13.20/21

tentukan:

a. 192.168.67.1/24

1. Nilai Biner dari IP Address,
11000000.10101000.01000011.00000001
2. Subnet Mask,
255.255.255.0 ke biner 11111111.11111111.11111111.00000000
3. Network Address,
192.168.67.0
4. Broadcast Address,
192.168.67.255
5. Host Address,
192.168.67.1 -- 192.168.67.254
6. Jumlah Address,
256
7. Jumlah Host Address,
 $256 - 2 = 254$
8. Network Address berikutnya
192.168.68.0

b. 213.68.2.13/22

1. Nilai Biner dari IP Address,
11010101.01000100.00000010.00001101
2. Subnet Mask,
255.255.252.0 ke biner 11111111.11111111.11111100.00000000
3. Network Address,
213.68.0.0
4. Broadcast Address,
213.68.3.255
5. Host Address,
213.68.0.1 -- 213.68.3.254
6. Jumlah Address,

1024

7. Jumlah Host Address,

$$1024 - 2 = 1022$$

8. Network Address berikutnya

213.68.4.0

c. 37.13.69.14/27

1. Nilai Biner dari IP Address,

00100101.00001101.01000101.00001110

2. Subnet Mask,

255.255.255.224 ke biner 11111111.11111111.11111111.11100000

3. Network Address,

37.13.69.0

4. Broadcast Address,

37.13.69.31

5. Host Address,

37.13.69.1 -- 37.13.69.30

6. Jumlah Address,

32

7. Jumlah Host Address,

$$32 - 2 = 30$$

8. Network Address berikutnya

37.13.69.32/27

d. 26.5.13.20/21

1. Nilai Biner dari IP Address,

00011010.00000101.00001101.00010100

2. Subnet Mask,

255.255.248.0 ke biner 11111111.11111111.11110000.00000000

3. Network Address,

26.5.8.0

4. Broadcast Address,

26.5.15.255

5. Host Address,

26.5.8.1 -- 26.5.15.254

6. Jumlah Address,
2048

7. Jumlah Host Address,
 $2048 - 2 = 2046$

8. Network Address berikutnya
26.5.16.0