

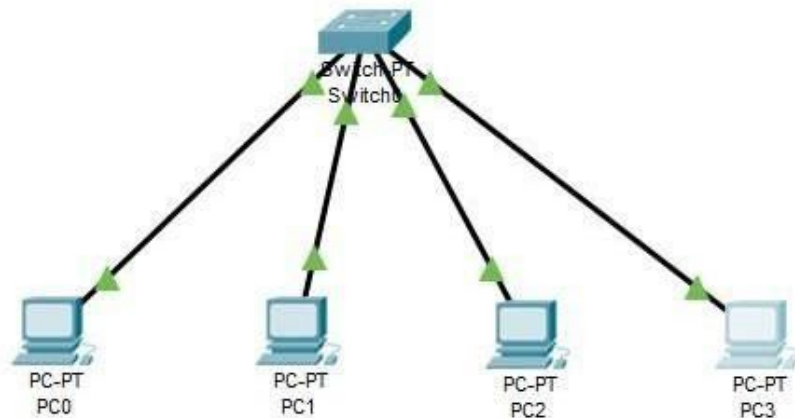
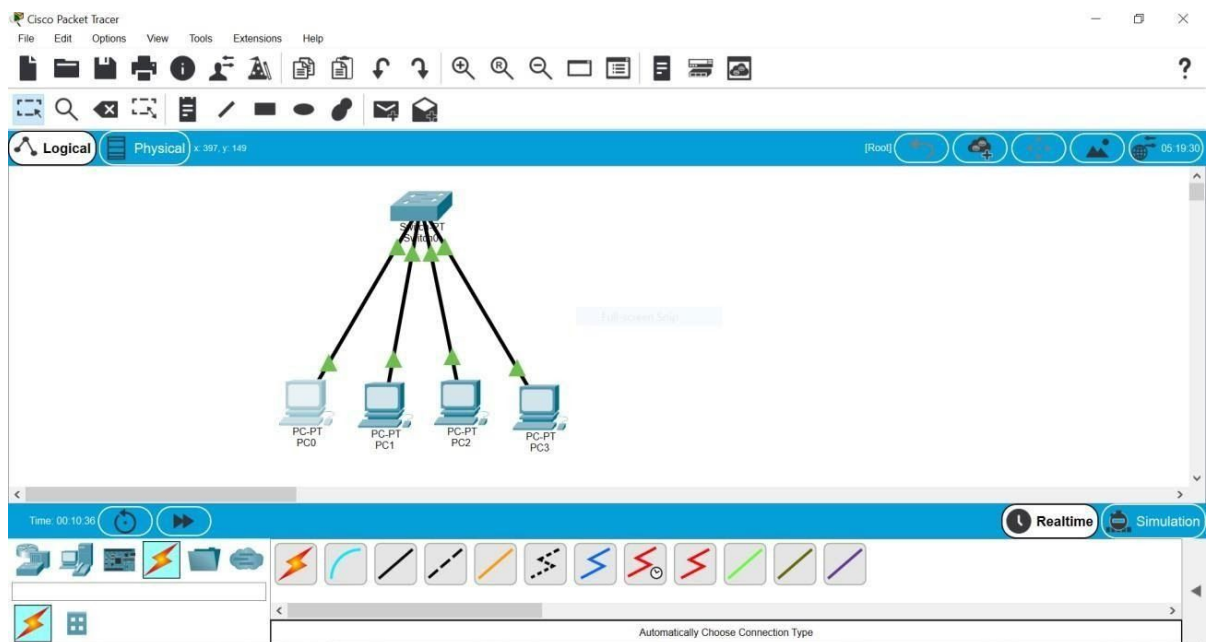
Nama : Dzaki Fadhlurrohman
NIM : L200180064
Kelas : B

MODUL 3

Kegiatan 1

Desain dan Konfigurasi Subnetting

Ada empat unit komputer yang terhubung melalui switch.



PC0

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IPAddress 201.222.5.1

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::209:7CFF:FEB1:44BA

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC1

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IPAddress 201.222.5.2

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:F9FF:FED8:691A

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC2

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 201.222.5.9

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::20D:B0FF:FE55:BDA2

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC3

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address 201.222.5.10

Subnet Mask 255.255.255.248

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::201:97FF:FEE2:5B60

IPv6 Gateway

IPv6 DNS Server

802.1X

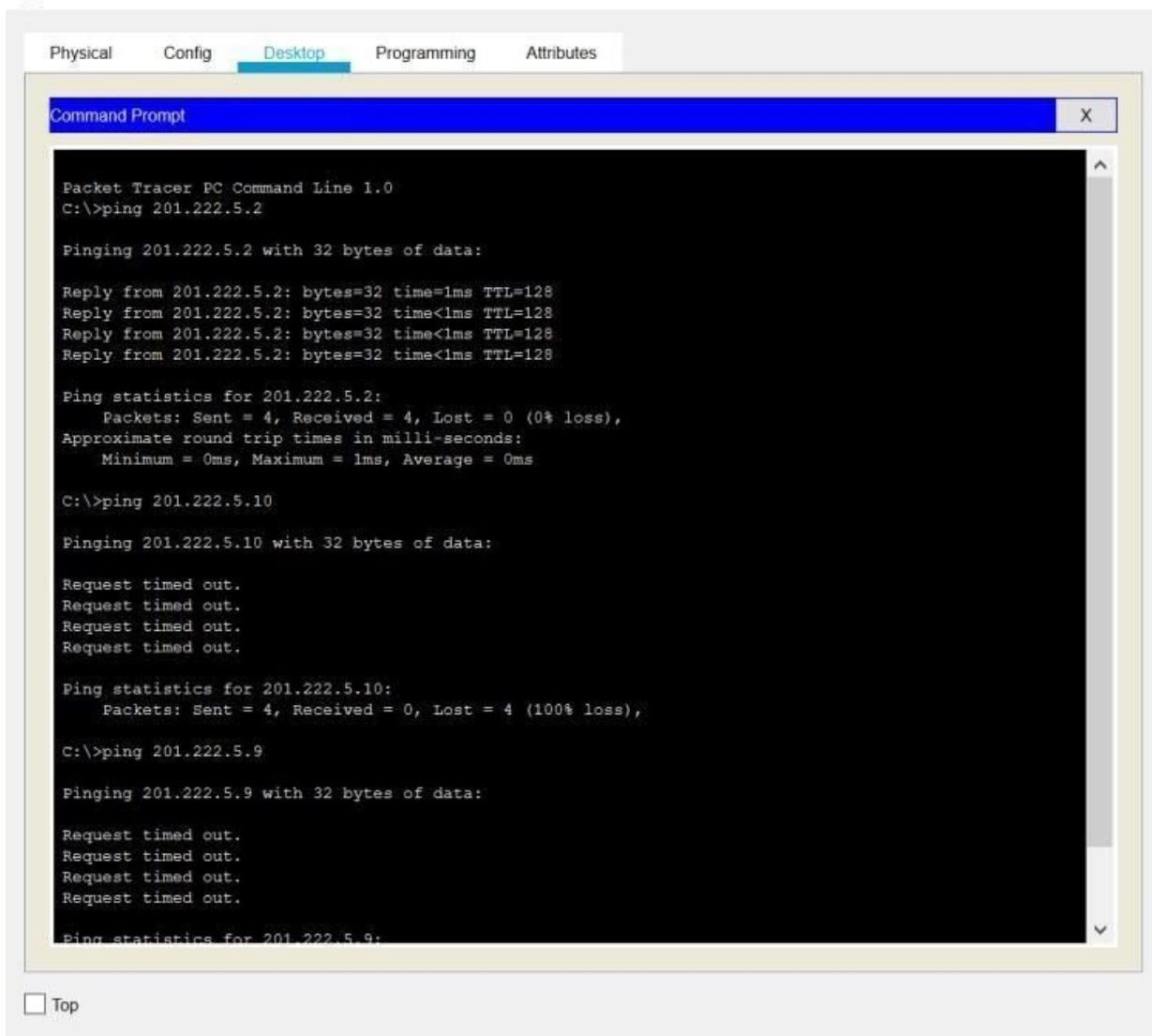
☐ Use 802.1X Security

Authentication MD5

Username

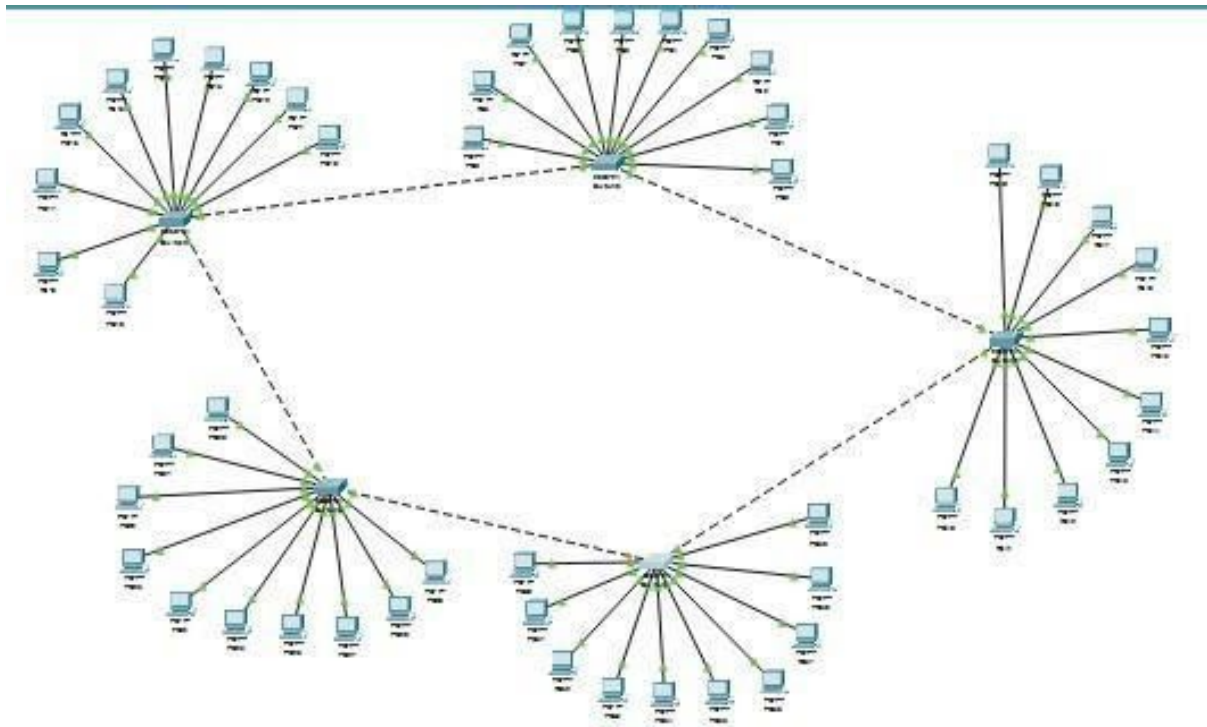
Password

☐ Top



PC0 ketika dihubungkan dengan PC1 terhubung karena network addressnya sama, sedangkan PC0 dihubungkan ke PC3 atau PC4 tidak terhubung karena network addressnya berbeda.

TUGAS MODUL



Network ID 202.155.19.0 dengan subnet mask default
255.255.255.0 11111111.11111111.11111111.00000000
255.255.255.0

- 1) Jumlah subnet: $2^x = 2^0 = 1$ subnet
- 2) Jumlah host: $2^y - 2 = 2^8 - 2 = 256 - 2 = 254$ host
- 3) Blok subnet: $256 - 0 = 256$
- 4) Table subnet:

Network	202.155.19.0
Host pertama	202.155.19.1
Host terakhir	202.155.19.254
Broadcast	202.155.19.255

Memberikan IP Address pada semua PC

PC0

Physical

Config

Desktop

Programming

Attributes

☐ DHCP

☒ Static

IP Address

202.155.19.1

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address

FE80::203:E4FF:FEB4:53B

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

PC49

Physical

Config

Desktop

Programming

Attributes

☐ DHCP

☒ Static

IP Address

202.155.19.254

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address

FE80::2E0:F7FF:FE39:286D

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication

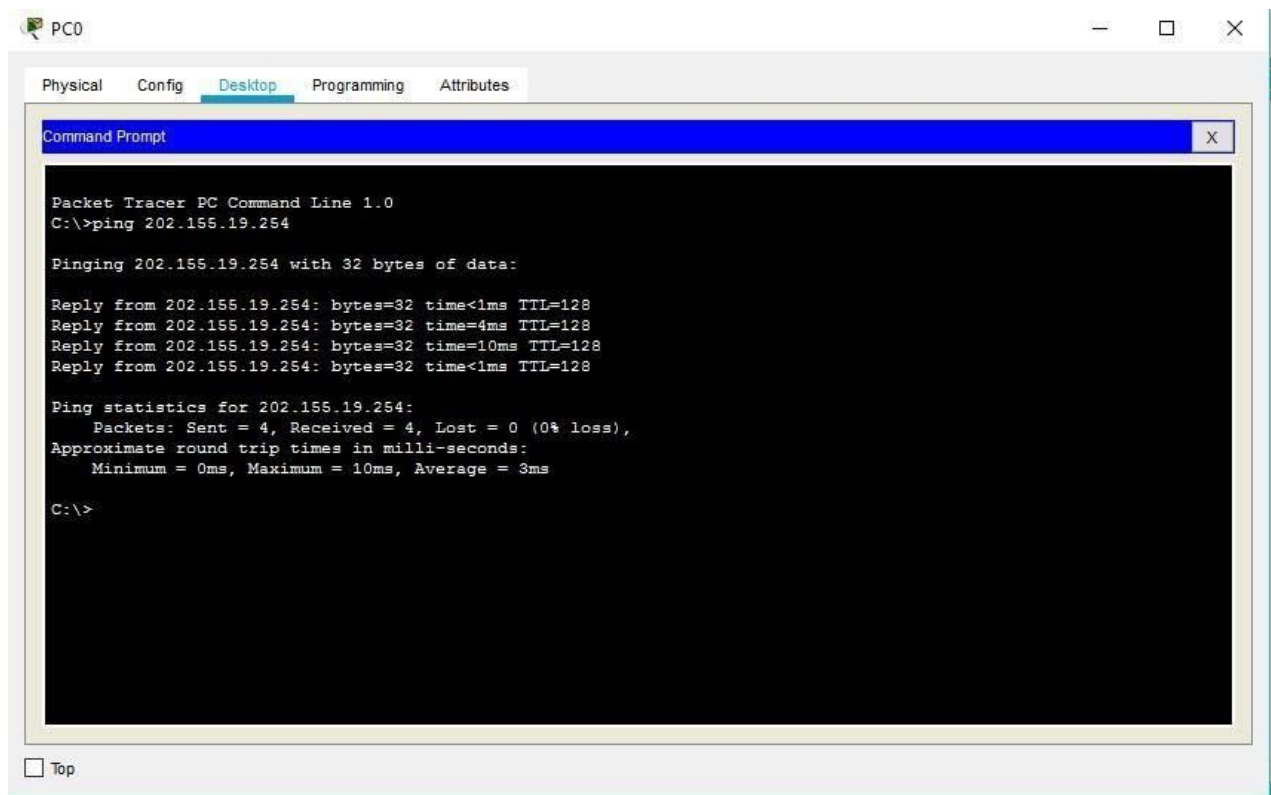
MD5

Username

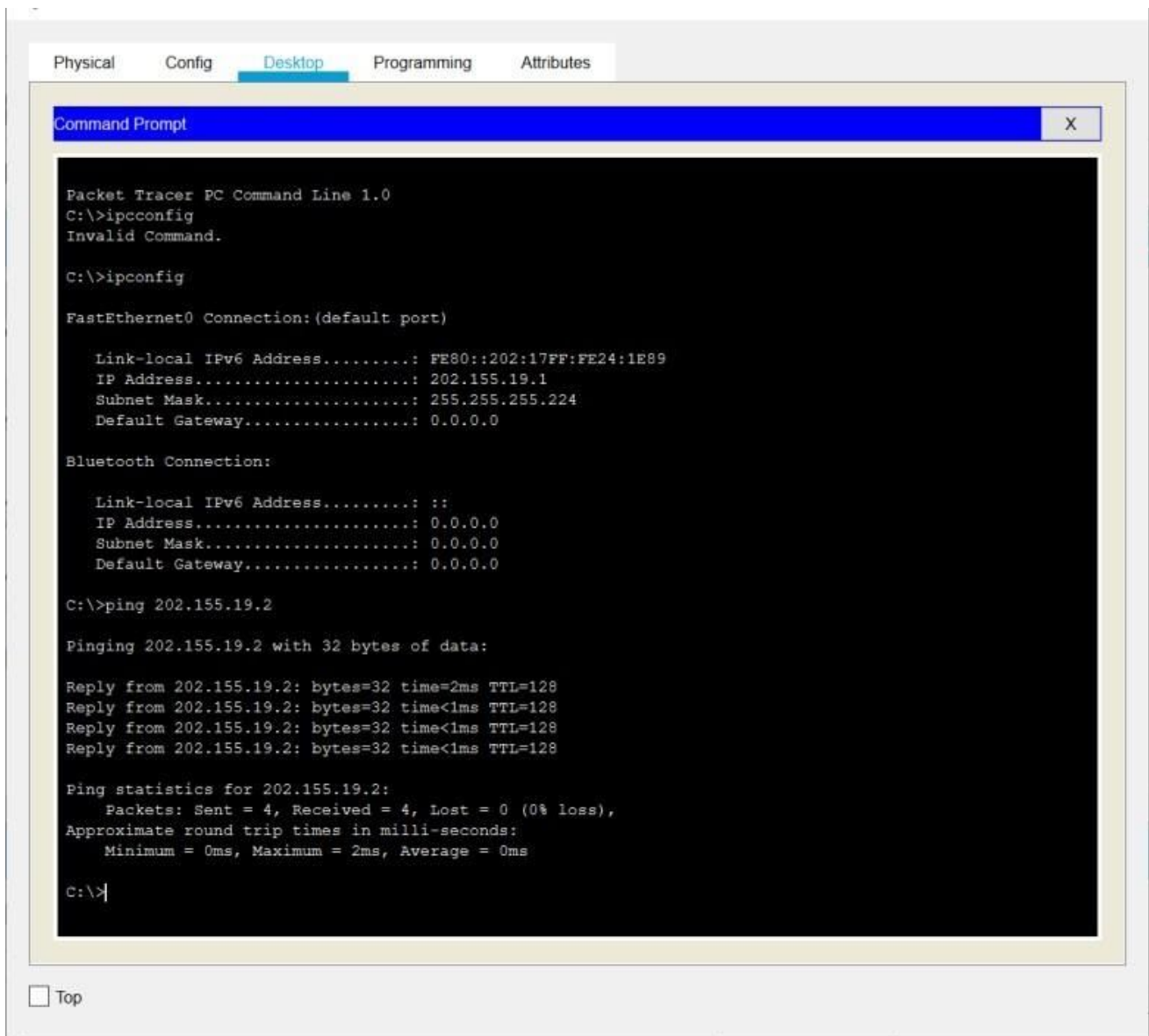
Password

☐ Top

Melakukan ping di PC 0 dengan IP Address PC 49



Melakukan ping dari PC Divisi 1 ke PC Divisi 1



Dapat terhubung karena network addressnya sama.

Melakukan ping dari PC Divisi 1 ke PC Divisi 2

```
C:\>ping 202.155.19.33

Pinging 202.155.19.33 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.33:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Terjadi Request Timed Out karena network addressnya berbeda.

Melakukan ping dari PC Divisi 1 ke PC Divisi 3

```
C:\>ping 202.155.19.65

Pinging 202.155.19.65 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.65:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Terjadi Request Timed Out karena network addressnya berbeda.

Melakukan ping dari PC Divisi 1 ke PC Divisi 4

```
C:\>ping 202.155.19.97

Pinging 202.155.19.97 with 32 bytes of data:

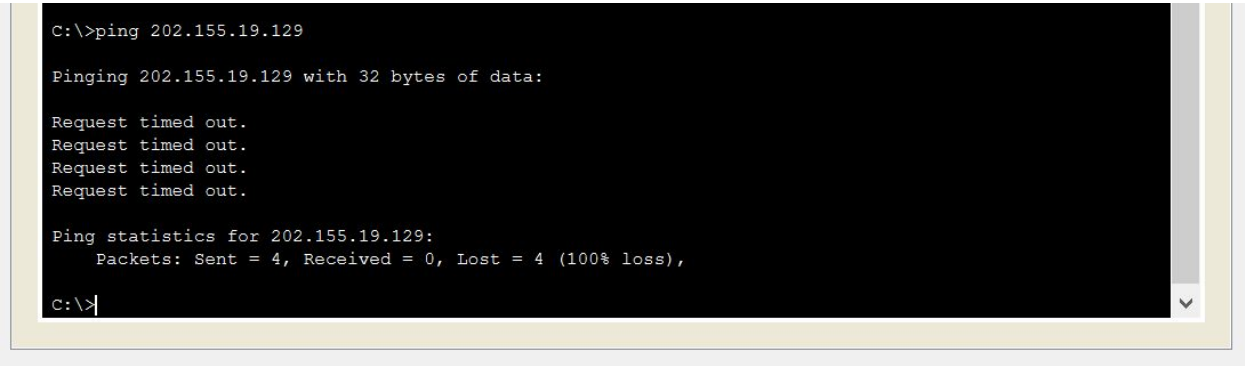
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.97:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Terjadi Request Timed Out karena network addressnya berbeda.

Melakukan ping dari PC Divisi 1 ke PC Divisi 5



```
C:\>ping 202.155.19.129

Pinging 202.155.19.129 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.129:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>|
```

The screenshot shows a Windows command prompt window with a black background and white text. The user has entered the command 'ping 202.155.19.129'. The output shows four 'Request timed out' messages, indicating that the ping failed. Below this, the 'Ping statistics' are displayed, showing that 4 packets were sent, 0 were received, and 4 were lost, resulting in a 100% loss. The prompt is currently at 'C:\>|'.

Terjadi Request Timed Out karena network addressnya berbeda