

Nama : Utari Isnawati

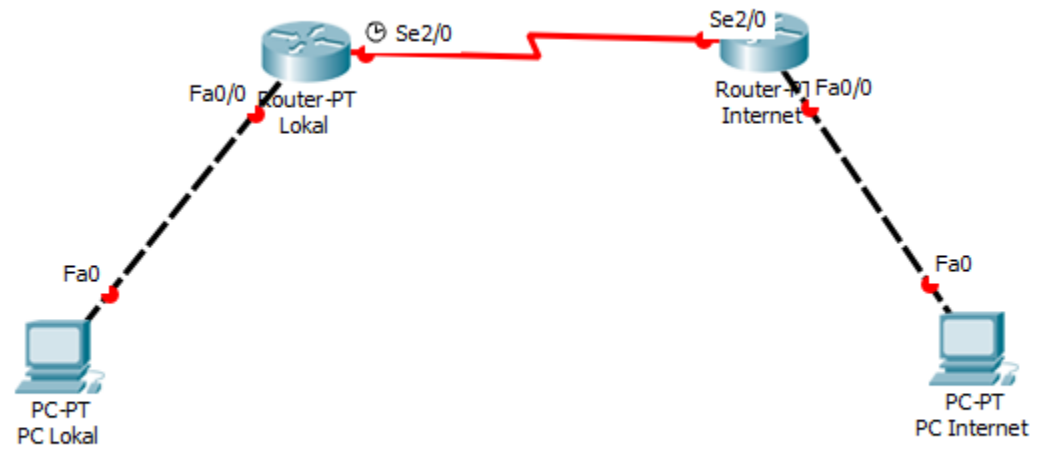
NIM : L200174074

Kelas : X

Kegiatan Praktikum

Modul 9

1. Topologi 1.



2. Konfigurasi Router Internet.

```
Router>en
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Internet
Internet(config)#int fa 0/0
Internet(config-if)#ip address 10.0.0.1 255.0.0.0
Internet(config-if)#no shutdown

Internet(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

Internet(config-if)#exit
Internet(config)#int se 2/0
Internet(config-if)#ip address 20.0.0.2 255.0.0.0
Internet(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Internet(config-if)#exit
Internet(config)#ip route 30.0.0.0 255.0.0.0 20.0.0.1
Internet(config)#ip nat inside source static 10.0.0.2 50.0.0.1
Internet(config)#int fa 0/0
Internet(config-if)#ip nat inside
Internet(config-if)#exit
Internet(config)#int se 2/0
Internet(config-if)#ip nat outside
Internet(config-if)#exit
Internet(config)#
```

3. Konfigurasi Router Lokal.

```
Router>en
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Lokal
Lokal(config)#int fa 0/0
Lokal(config-if)#ip address 30.0.0.1 255.0.0.0
Lokal(config-if)#no shutdown

Lokal(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

Lokal(config-if)#exit
Lokal(config)#int se 2/0
Lokal(config-if)#ip address 20.0.0.1 255.0.0.0
Lokal(config-if)#clock rate 64000
Lokal(config-if)#bandwidth 64
Lokal(config-if)#no shutdown

Lokal(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Lokal(config-if)#exit
Lokal(config)#ip route
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

% Incomplete command.
Lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
Lokal(config)#exit
Lokal#
%SYS-5-CONFIG_I: Configured from console by console
|
```

4. Konfigurasi PC Internet.

The screenshot shows the 'PC Internet' configuration window. It has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Config' tab is active, and the 'IP Configuration' section is highlighted. Under 'IP Configuration', the 'Static' radio button is selected. The fields are filled with: IP Address: 10.0.0.2, Subnet Mask: 255.0.0.0, Default Gateway: 10.0.0.1, and DNS Server: 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is selected. The fields are: IPv6 Address (empty), Link Local Address: FE80::2D0:58FF:FE5B:A23E, IPv6 Gateway (empty), and IPv6 DNS Server (empty). A 'Top' button is at the bottom left.

| IP Configuration | |
|----------------------------|---|
| <input type="radio"/> DHCP | <input checked="" type="radio"/> Static |
| IP Address | 10.0.0.2 |
| Subnet Mask | 255.0.0.0 |
| Default Gateway | 10.0.0.1 |
| 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::2D0:58FF:FE5B:A23E | |
| IPv6 Gateway | | |
| IPv6 DNS Server | | |

5. Konfigurasi PC Lokal.

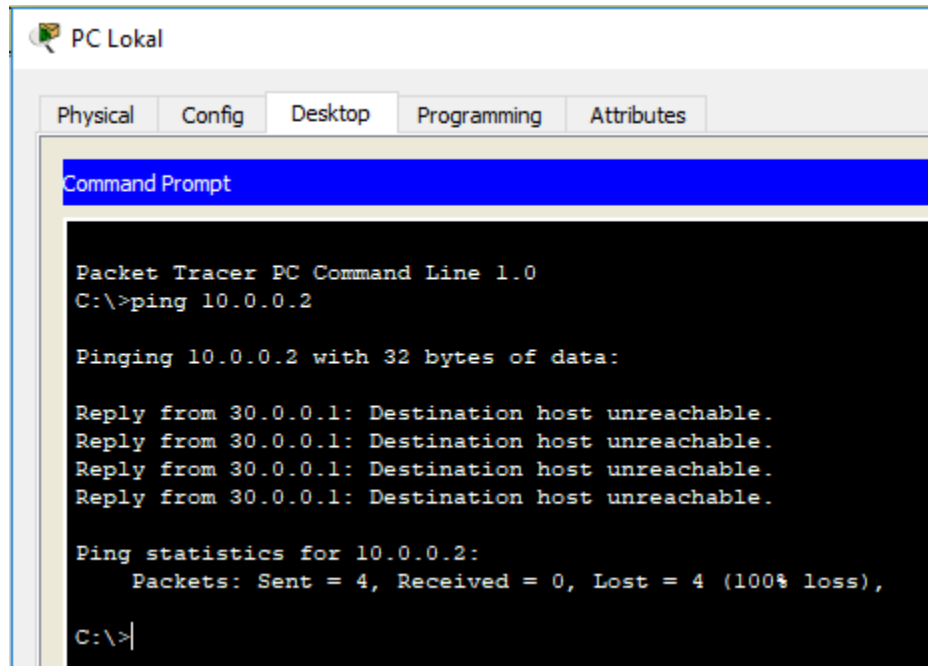
The screenshot shows the 'PC Lokal' configuration window. It has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Config' tab is active, and the 'IP Configuration' section is highlighted. Under 'IP Configuration', the 'Static' radio button is selected. The fields are filled with: IP Address: 30.0.0.2, Subnet Mask: 255.0.0.0, Default Gateway: 30.0.0.1, and DNS Server: 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is selected. The fields are: IPv6 Address (empty), Link Local Address: FE80::2E0:F7FF:FE25:7B16, IPv6 Gateway (empty), and IPv6 DNS Server (empty). A 'Top' button is at the bottom left.

| IP Configuration | |
|----------------------------|---|
| <input type="radio"/> DHCP | <input checked="" type="radio"/> Static |
| IP Address | 30.0.0.2 |
| Subnet Mask | 255.0.0.0 |
| Default Gateway | 30.0.0.1 |
| 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::2E0:F7FF:FE25:7B16 | |
| IPv6 Gateway | | |
| IPv6 DNS Server | | |

6. Uji coba koneksi dari PC-Lokal ke Web Server.

a. Ping ke IP Private Server.



The screenshot shows the 'PC Lokal' window in Packet Tracer. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The text in the command prompt is as follows:

```
Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.2

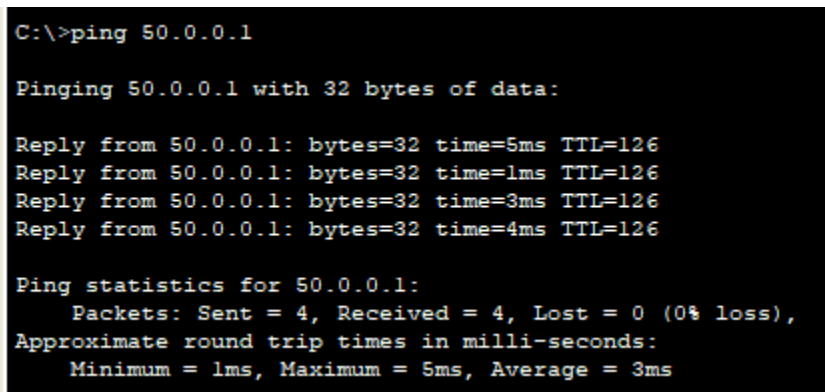
Pinging 10.0.0.2 with 32 bytes of data:

Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

b. Ping ke IP Publik Server.



The screenshot shows a Command Prompt window with the following text:

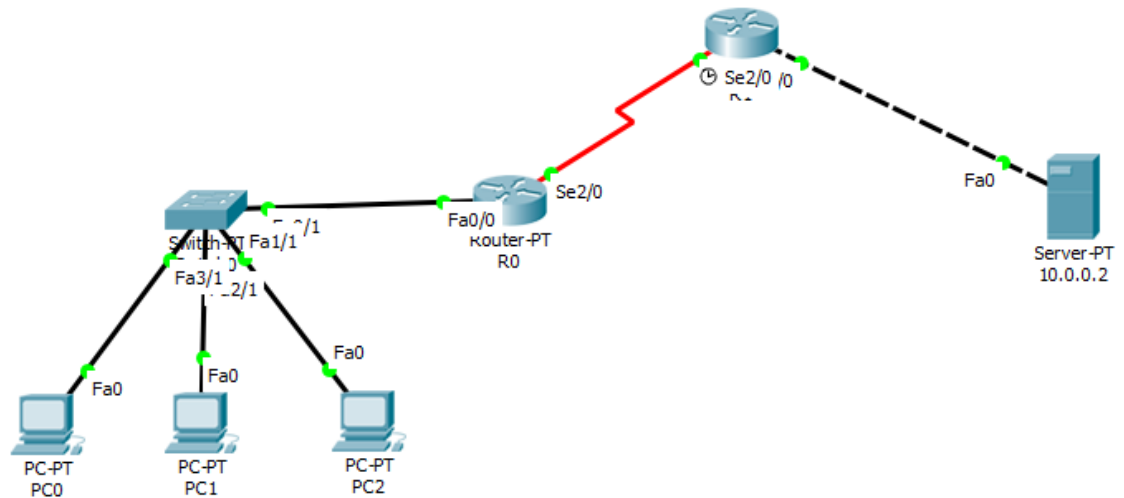
```
C:\>ping 50.0.0.1

Pinging 50.0.0.1 with 32 bytes of data:

Reply from 50.0.0.1: bytes=32 time=5ms TTL=126
Reply from 50.0.0.1: bytes=32 time=1ms TTL=126
Reply from 50.0.0.1: bytes=32 time=3ms TTL=126
Reply from 50.0.0.1: bytes=32 time=4ms TTL=126

Ping statistics for 50.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 5ms, Average = 3ms
```

7. Topologi 2.



8. Konfigurasi Router R0.

```
Router>en
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R0
R0(config)#int fa 0/0
R0(config-if)#ip address 30.0.0.1 255.0.0.0
R0(config-if)#no shutdown

R0(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/0, changed state to up

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

R0(config-if)#exit
R0(config)#int se 2/0
R0(config-if)#ip address 20.0.0.1 255.0.0.0
R0(config-if)#clock rate 64000
This command applies only to DCE interfaces
R0(config-if)#bandwidth 64
^
% Invalid input detected at '^' marker.

R0(config-if)#bandwidth 64
R0(config-if)#no shutdown

%LINK-S-CHANGED: Interface Serial2/0, changed state to down
R0(config-if)#exit
R0(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
R0(config)#exit
R0#
%SYS-5-CONFIG_I: Configured from console by console
```

9. Konfigurasi Router R1.

```
Router>en
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R1
R1(config)#int fa 0/0
R1(config-if)#ip address 10.0.0.1 255.0.0.0
R1(config-if)#no shutdown

R1(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

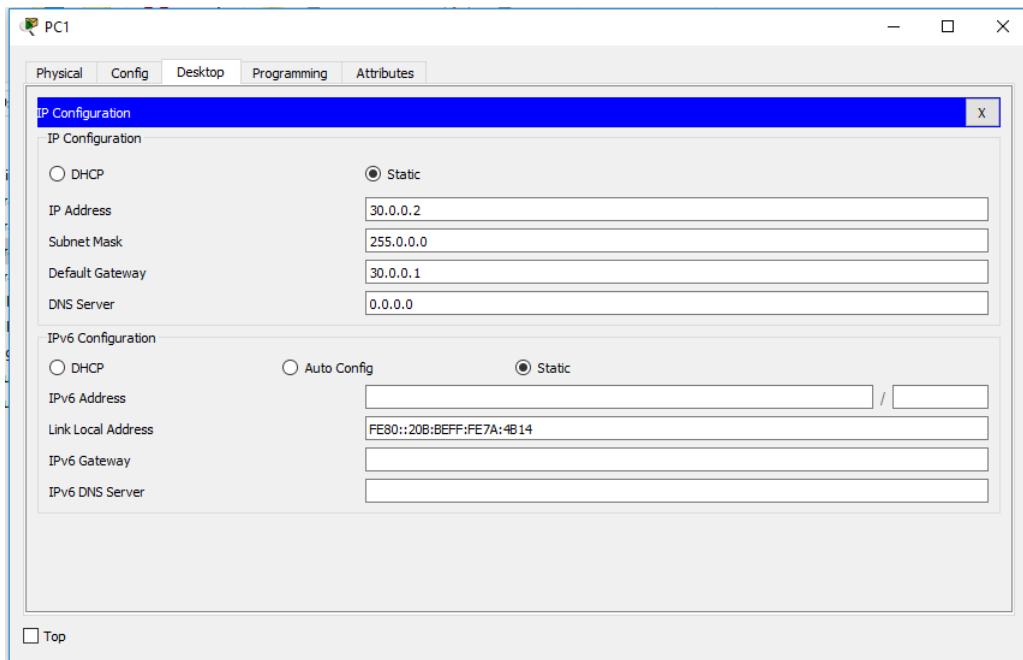
R1(config-if)#exit
R1(config)#int se 2/0
R1(config-if)#ip address 20.0.0.2 255.0.0.0
R1(config-if)#no shutdown

R1(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

R1(config-if)#exit
R1(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

R1(config)#ip route 30.0.0.0 255.0.0.0 20.0.0.1
R1(config)#ip nat inside source static 10.0.0.2 50.0.0.1
R1(config)#int fa 0/0
R1(config-if)#ip nat inside
R1(config-if)#exit
R1(config)#int se 2/0
R1(config-if)#ip nat outside
R1(config-if)#exit
R1(config)#
R1(config)#
```

10. Konfigurasi IP PC 1.

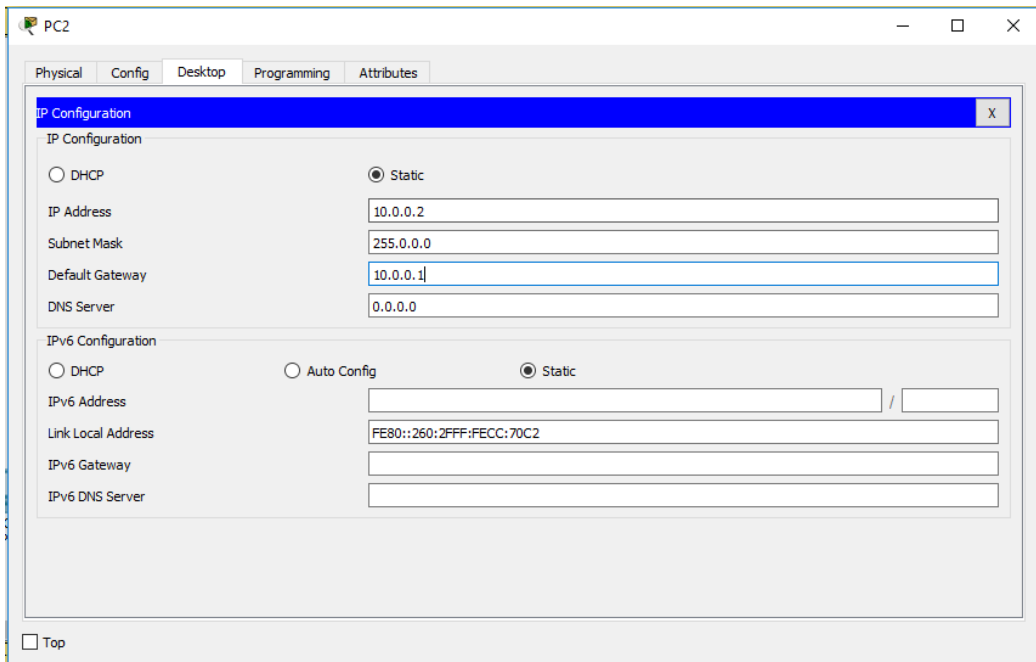


The screenshot shows the 'PC1' configuration window with the 'Config' tab selected. The 'IP Configuration' sub-window is open, displaying settings for both IPv4 and IPv6. The IPv4 section has 'Static' selected, with IP Address 30.0.0.2, Subnet Mask 255.0.0.0, Default Gateway 30.0.0.1, and DNS Server 0.0.0.0. The IPv6 section has 'Static' selected, with IPv6 Address, Link Local Address FE80::208:BEFF:FE7A:4B14, IPv6 Gateway, and IPv6 DNS Server.

| IP Configuration | |
|--|--------------------------|
| <input type="radio"/> DHCP <input checked="" type="radio"/> Static | |
| IP Address | 30.0.0.2 |
| Subnet Mask | 255.0.0.0 |
| Default Gateway | 30.0.0.1 |
| 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::208:BEFF:FE7A:4B14 |
| IPv6 Gateway | |
| IPv6 DNS Server | |

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11. Konfigurasi IP PC 2.



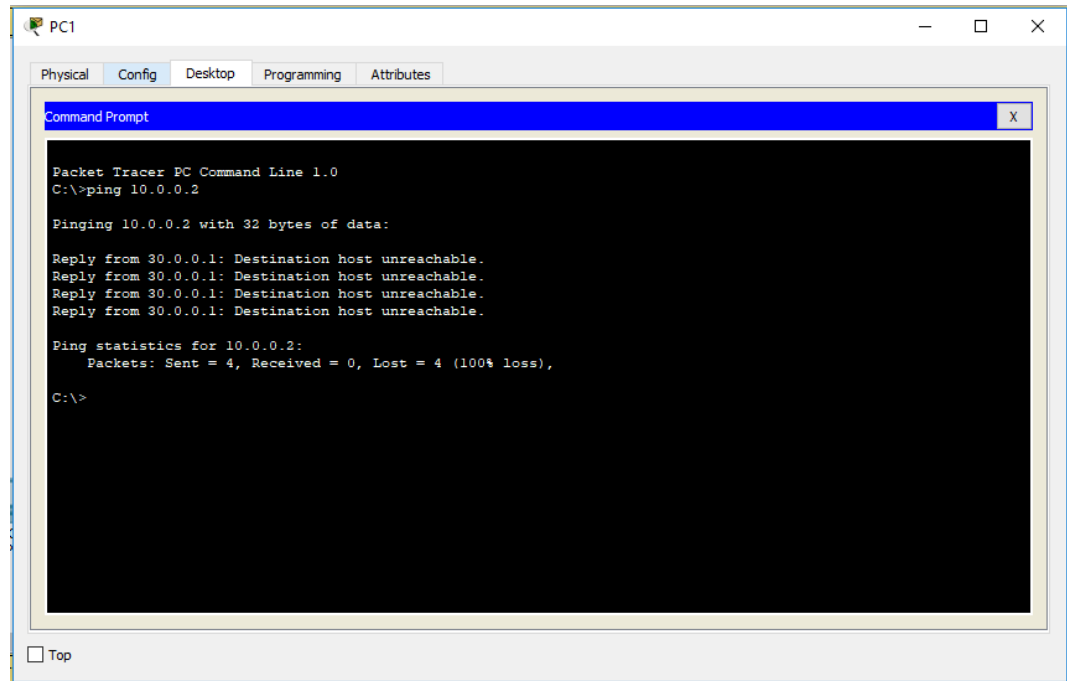
The screenshot shows the 'PC2' configuration window with the 'Config' tab selected. The 'IP Configuration' sub-window is open, displaying settings for both IPv4 and IPv6. The IPv4 section has 'Static' selected, with IP Address 10.0.0.2, Subnet Mask 255.0.0.0, Default Gateway 10.0.0.1, and DNS Server 0.0.0.0. The IPv6 section has 'Static' selected, with IPv6 Address, Link Local Address FE80::260:2FFF:FECC:70C2, IPv6 Gateway, and IPv6 DNS Server.

| IP Configuration | |
|--|--------------------------|
| <input type="radio"/> DHCP <input checked="" type="radio"/> Static | |
| IP Address | 10.0.0.2 |
| Subnet Mask | 255.0.0.0 |
| Default Gateway | 10.0.0.1 |
| 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::260:2FFF:FECC:70C2 |
| IPv6 Gateway | |
| IPv6 DNS Server | |

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12. Uji coba koneksi dari PC ke Web Server.

a. Ping dari PC1 ke Server.



b. Ping dari PC2 ke Server.

