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LAPORAN SOAL UAS KONSEP JARINGAN



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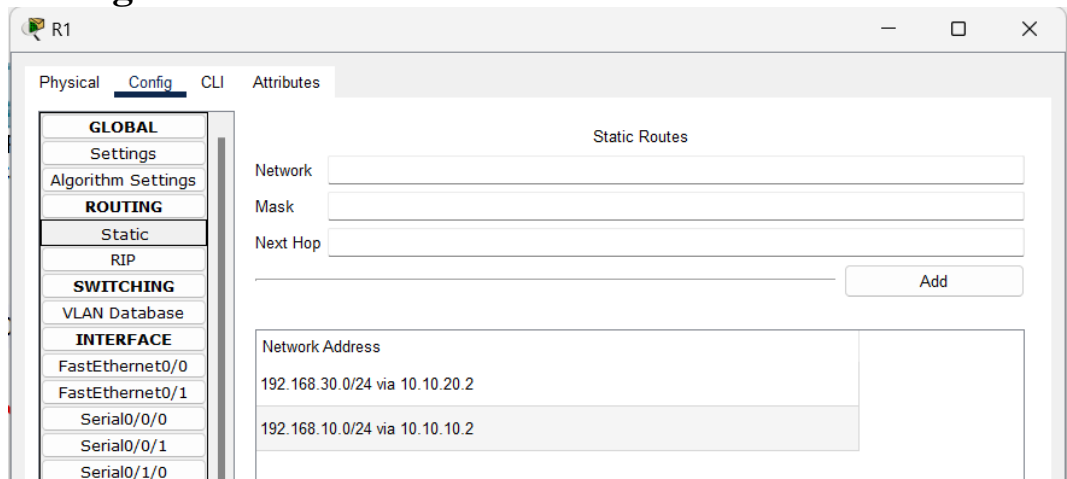
Soal UAS Semester Gasal

- Repository Github:

[GITHUB PENGUMPULAN](#)

1. Soal-1.pkt

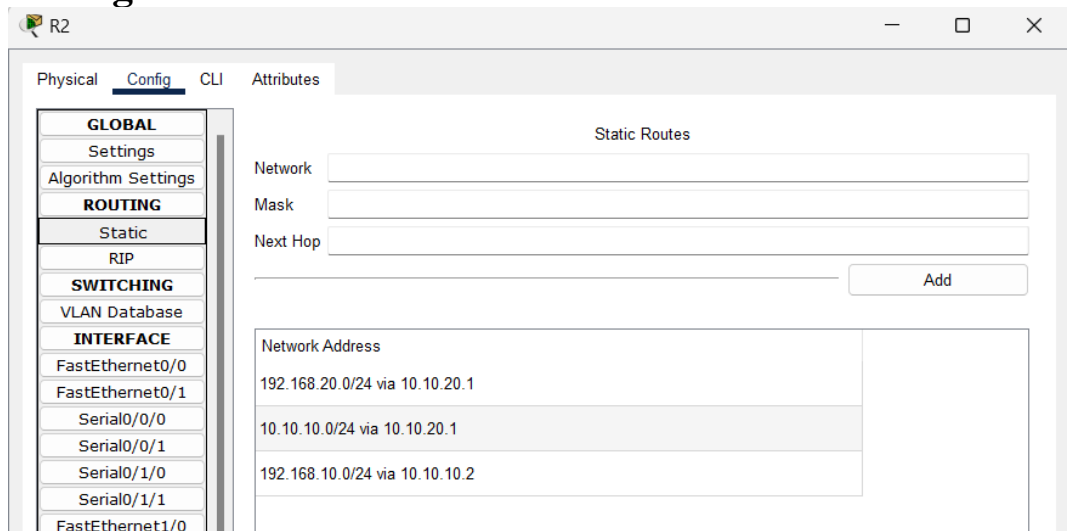
- **Konfigurasi Router R1**



The screenshot shows the configuration interface for Router R1. The left sidebar contains a tree view with the following categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), SWITCHING (VLAN Database), and INTERFACE (FastEthernet0/0, FastEthernet0/1, Serial0/0/0, Serial0/0/1, Serial0/1/0). The 'Config' tab is selected, and the 'Static Routes' configuration page is displayed. The page has three input fields: 'Network', 'Mask', and 'Next Hop', followed by an 'Add' button. Below these fields, a table lists the configured static routes:

| Network Address |
|--------------------------------|
| 192.168.30.0/24 via 10.10.20.2 |
| 192.168.10.0/24 via 10.10.10.2 |

- **Konfigurasi Router R2**



The screenshot shows the configuration interface for Router R2. The left sidebar contains a tree view with the following categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), SWITCHING (VLAN Database), and INTERFACE (FastEthernet0/0, FastEthernet0/1, Serial0/0/0, Serial0/0/1, Serial0/1/0, FastEthernet1/0). The 'Config' tab is selected, and the 'Static Routes' configuration page is displayed. The page has three input fields: 'Network', 'Mask', and 'Next Hop', followed by an 'Add' button. Below these fields, a table lists the configured static routes:

| Network Address |
|--------------------------------|
| 192.168.20.0/24 via 10.10.20.1 |
| 10.10.10.0/24 via 10.10.20.1 |
| 192.168.10.0/24 via 10.10.10.2 |

○ Konfigurasi Router R3

The screenshot shows the configuration window for Router R3. The 'Config' tab is active, and the 'Static Routes' section is selected. The left sidebar shows the configuration hierarchy: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), SWITCHING (VLAN Database), and INTERFACE (FastEthernet0/0, FastEthernet0/1, Serial0/0/0, Serial0/0/1, Serial0/1/0, Serial0/1/1, FastEthernet1/0, FastEthernet1/1). The main area displays the 'Static Routes' configuration. It has input fields for 'Network', 'Mask', and 'Next Hop'. Below these is an 'Add' button. A table lists the configured static routes:

| Network Address |
|--------------------------------|
| 192.168.20.0/24 via 10.10.10.1 |
| 10.10.20.0/24 via 10.10.10.1 |
| 192.168.30.0/24 via 10.10.20.2 |

○ Tes Ping antar PC

- 192.168.10.2 dengan 192.168.10.3

```
C:\>ping 192.168.10.3

Pinging 192.168.10.3 with 32 bytes of data:

Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

- 192.168.10.2 dengan 192.168.20.3

```
C:\>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3: bytes=32 time=1ms TTL=126
Reply from 192.168.20.3: bytes=32 time=10ms TTL=126
Reply from 192.168.20.3: bytes=32 time=2ms TTL=126
Reply from 192.168.20.3: bytes=32 time=2ms TTL=126

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 3ms
```

- **192.168.10.2 dengan 192.168.30.3**

```
C:\>ping 192.168.30.3

Pinging 192.168.30.3 with 32 bytes of data:

Reply from 192.168.30.3: bytes=32 time=23ms TTL=125
Reply from 192.168.30.3: bytes=32 time=3ms TTL=125
Reply from 192.168.30.3: bytes=32 time=2ms TTL=125
Reply from 192.168.30.3: bytes=32 time=2ms TTL=125

Ping statistics for 192.168.30.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 23ms, Average = 7ms
```

- **192.168.20.2 dengan 192.168.20.3**

```
C:\>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3: bytes=32 time<1ms TTL=128
Reply from 192.168.20.3: bytes=32 time<1ms TTL=128
Reply from 192.168.20.3: bytes=32 time<1ms TTL=128
Reply from 192.168.20.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

- **192.168.20.2 dengan 192.168.10.3**

```
C:\>ping 192.168.10.3

Pinging 192.168.10.3 with 32 bytes of data:

Reply from 192.168.10.3: bytes=32 time=13ms TTL=126
Reply from 192.168.10.3: bytes=32 time=2ms TTL=126
Reply from 192.168.10.3: bytes=32 time=2ms TTL=126
Reply from 192.168.10.3: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 13ms, Average = 4ms
```

- **192.168.20.2 dengan 192.168.30.3**

```
C:\>ping 192.168.30.3

Pinging 192.168.30.3 with 32 bytes of data:

Reply from 192.168.30.3: bytes=32 time=13ms TTL=126
Reply from 192.168.30.3: bytes=32 time=2ms TTL=126
Reply from 192.168.30.3: bytes=32 time=1ms TTL=126
Reply from 192.168.30.3: bytes=32 time=10ms TTL=126

Ping statistics for 192.168.30.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 13ms, Average = 6ms
```

- **192.168.30.2 dengan 192.168.30.3**

```
C:\>ping 192.168.30.3

Pinging 192.168.30.3 with 32 bytes of data:

Reply from 192.168.30.3: bytes=32 time<1ms TTL=128
Reply from 192.168.30.3: bytes=32 time=1ms TTL=128
Reply from 192.168.30.3: bytes=32 time<1ms TTL=128
Reply from 192.168.30.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.30.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

- **192.168.30.2 dengan 192.168.10.3**

```
C:\>ping 192.168.10.3

Pinging 192.168.10.3 with 32 bytes of data:

Reply from 192.168.10.3: bytes=32 time=19ms TTL=125
Reply from 192.168.10.3: bytes=32 time=2ms TTL=125
Reply from 192.168.10.3: bytes=32 time=2ms TTL=125
Reply from 192.168.10.3: bytes=32 time=3ms TTL=125

Ping statistics for 192.168.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 19ms, Average = 6ms
```

- 192.168.30.2 dengan 192.168.20.3

```
C:\>ping 192.168.20.3

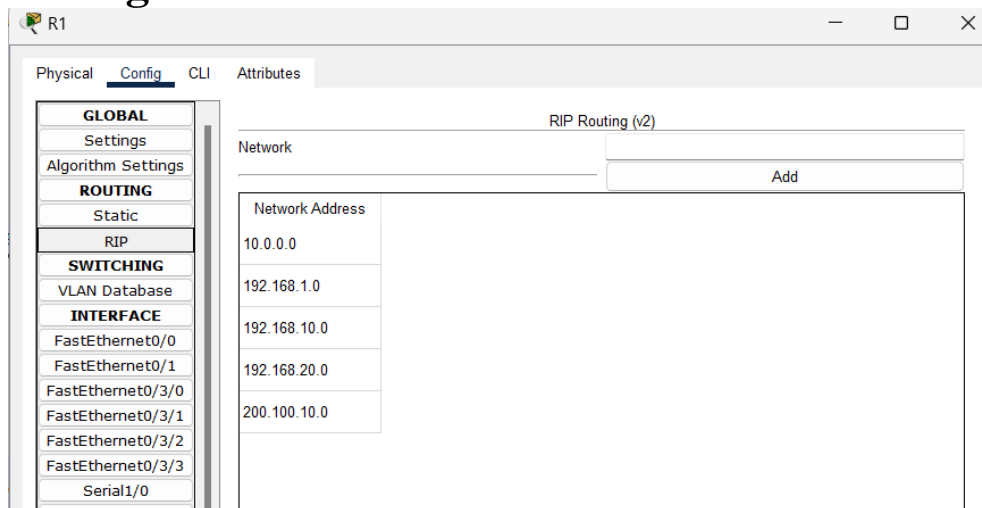
Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3: bytes=32 time=12ms TTL=126
Reply from 192.168.20.3: bytes=32 time=1ms TTL=126
Reply from 192.168.20.3: bytes=32 time=15ms TTL=126
Reply from 192.168.20.3: bytes=32 time=1ms TTL=126

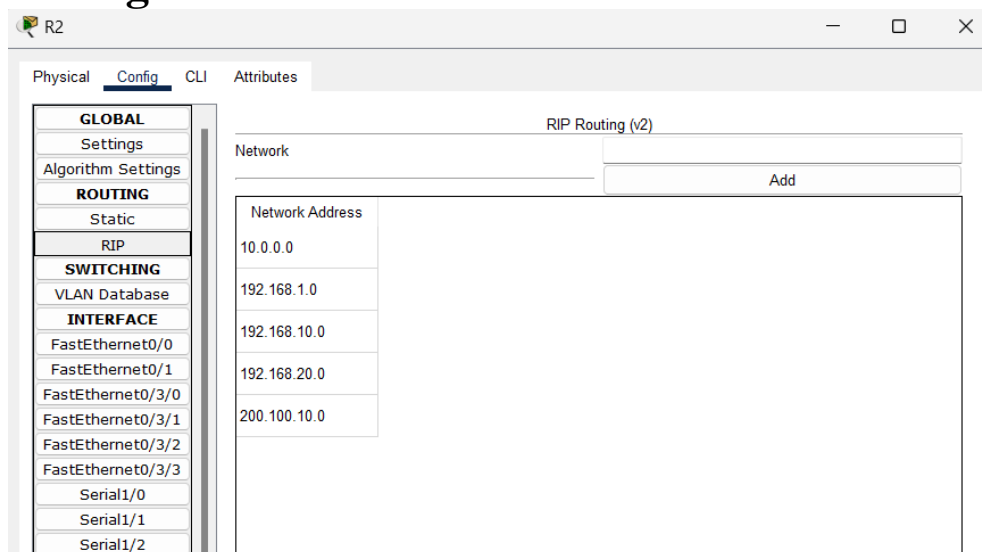
Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 15ms, Average = 7ms
```

2. Soal-2.pkt

○ Konfigurasi Router R1

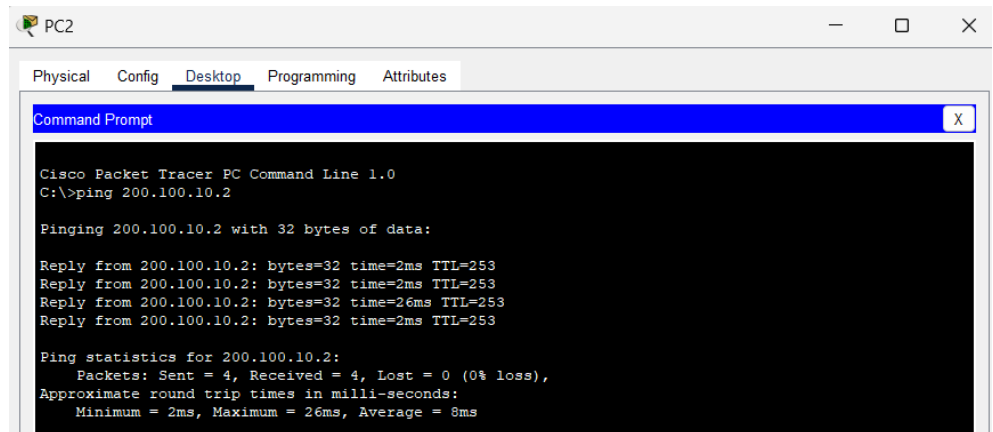


○ Konfigurasi Router R2



○ Tes Ping ke ISP

- **192.168.10.2 ke 200.100.10.2**



PC2

Physical Config Desktop Programming Attributes

Command Prompt

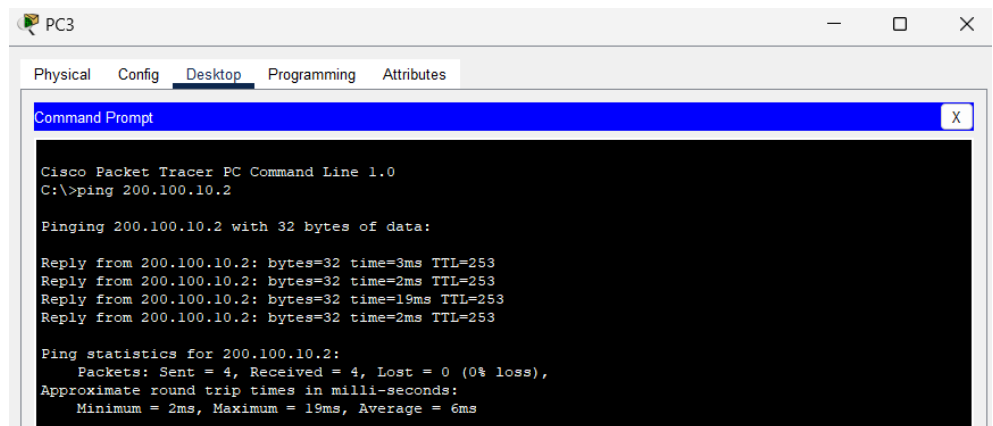
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.100.10.2

Pinging 200.100.10.2 with 32 bytes of data:

Reply from 200.100.10.2: bytes=32 time=2ms TTL=253
Reply from 200.100.10.2: bytes=32 time=2ms TTL=253
Reply from 200.100.10.2: bytes=32 time=26ms TTL=253
Reply from 200.100.10.2: bytes=32 time=2ms TTL=253

Ping statistics for 200.100.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 26ms, Average = 8ms
```

- **192.168.1.4 ke 200.100.10.2**



PC3

Physical Config Desktop Programming Attributes

Command Prompt

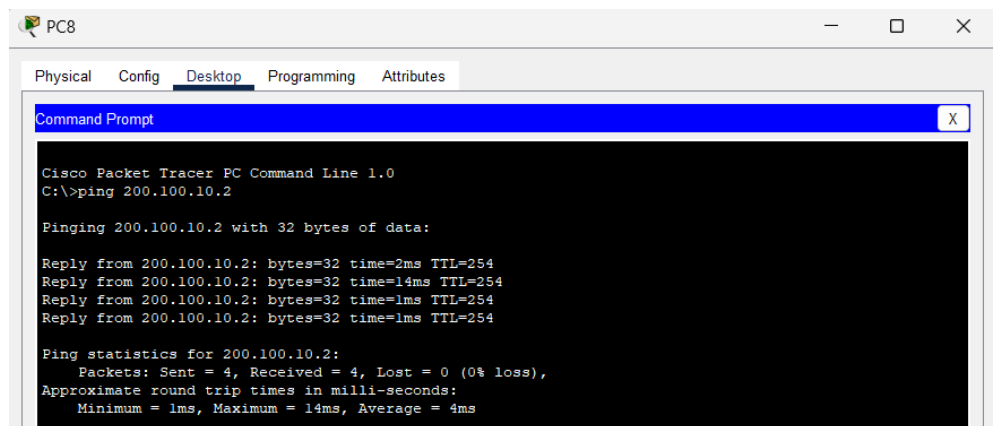
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.100.10.2

Pinging 200.100.10.2 with 32 bytes of data:

Reply from 200.100.10.2: bytes=32 time=3ms TTL=253
Reply from 200.100.10.2: bytes=32 time=2ms TTL=253
Reply from 200.100.10.2: bytes=32 time=19ms TTL=253
Reply from 200.100.10.2: bytes=32 time=2ms TTL=253

Ping statistics for 200.100.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 19ms, Average = 6ms
```

- **192.168.20.2 ke 200.100.10.2**



PC8

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.100.10.2

Pinging 200.100.10.2 with 32 bytes of data:

Reply from 200.100.10.2: bytes=32 time=2ms TTL=254
Reply from 200.100.10.2: bytes=32 time=14ms TTL=254
Reply from 200.100.10.2: bytes=32 time=1ms TTL=254
Reply from 200.100.10.2: bytes=32 time=1ms TTL=254

Ping statistics for 200.100.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 14ms, Average = 4ms
```

3. Soal-3.pkt

○ Konfigurasi Router R1

The screenshot shows the configuration window for Router R1. The 'Config' tab is active, and the 'Static Routes' section is selected in the left sidebar. The main area displays the 'Static Routes' configuration form. The 'Network' field is empty, the 'Mask' field is empty, and the 'Next Hop' field is empty. Below these fields is an 'Add' button. In the 'Network Address' section, the text '192.168.1.0/24 via 10.0.0.2' is displayed.

○ Konfigurasi Router R2

The screenshot shows the configuration window for Router R2. The 'Config' tab is active, and the 'Static Routes' section is selected in the left sidebar. The main area displays the 'Static Routes' configuration form. The 'Network' field is empty, the 'Mask' field is empty, and the 'Next Hop' field is empty. Below these fields is an 'Add' button. In the 'Network Address' section, the text '192.168.1.0/24 via 172.16.0.2' is displayed, and below it, the text '192.168.0.0/24 via 10.0.0.1' is displayed.

○ Konfigurasi Router R3

The screenshot shows the configuration window for Router R3. The 'Config' tab is active, and the 'Static Routes' section is selected in the left sidebar. The main area displays the 'Static Routes' configuration form. The 'Network' field is empty, the 'Mask' field is empty, and the 'Next Hop' field is empty. Below these fields is an 'Add' button. In the 'Network Address' section, the text '192.168.0.0/24 via 172.16.0.1' is displayed.

- Tes Ping antar PC
 - 192.168.0.6 dengan 192.168.1.2

```
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=125
Reply from 192.168.1.2: bytes=32 time<1ms TTL=125
Reply from 192.168.1.2: bytes=32 time<1ms TTL=125
Reply from 192.168.1.2: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

- 192.168.1.2 dengan 192.168.0.6

```
C:\>ping 192.168.0.6

Pinging 192.168.0.6 with 32 bytes of data:

Reply from 192.168.0.6: bytes=32 time<1ms TTL=125
Reply from 192.168.0.6: bytes=32 time<1ms TTL=125
Reply from 192.168.0.6: bytes=32 time=1ms TTL=125
Reply from 192.168.0.6: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.0.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```