

1:

```
SW1(config)#banner motd # Welcome to L2 Switch #  
SW1(config)#
```

Figure 1: Terminal of SW1 configuring motd

2:

```
R1(config)#  
R1(config)#int g1/0  
R1(config-if)#no shutdown  
R1(config-if)#
```

Figure 2: Terminal of R1 configuring no shutdown

3:

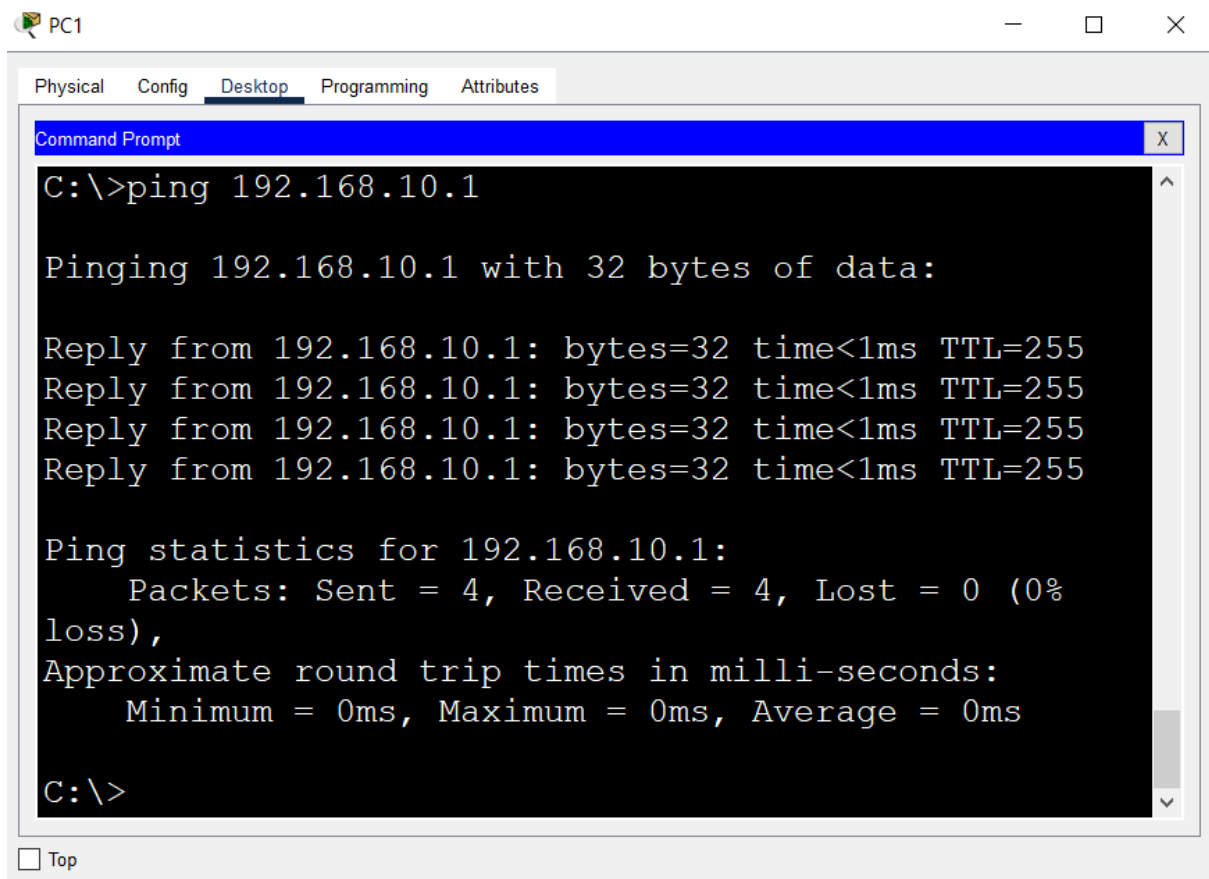
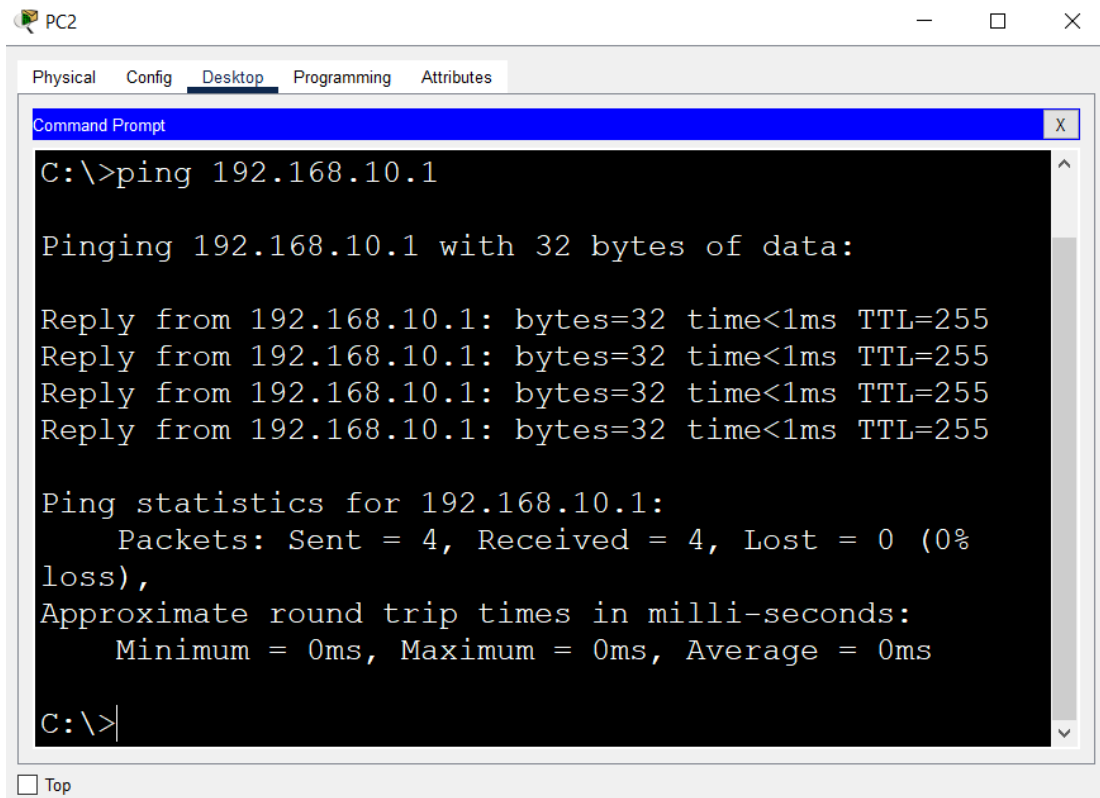
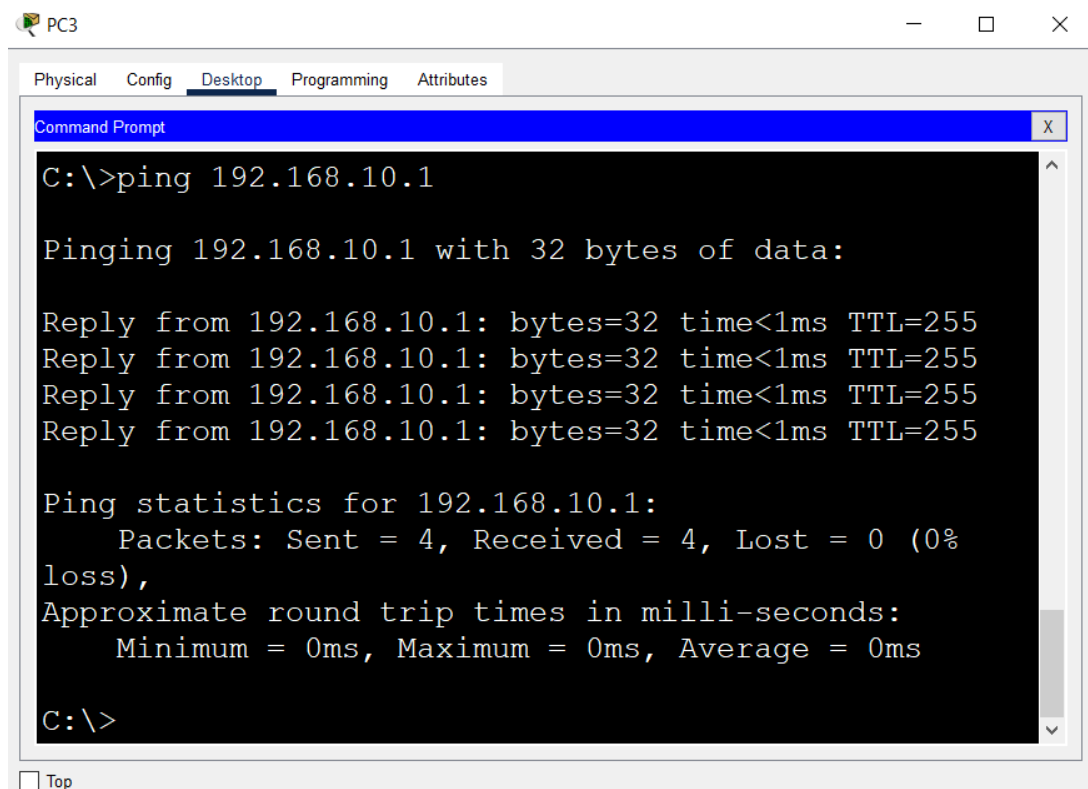


Figure 3: PC1 successful ping with router

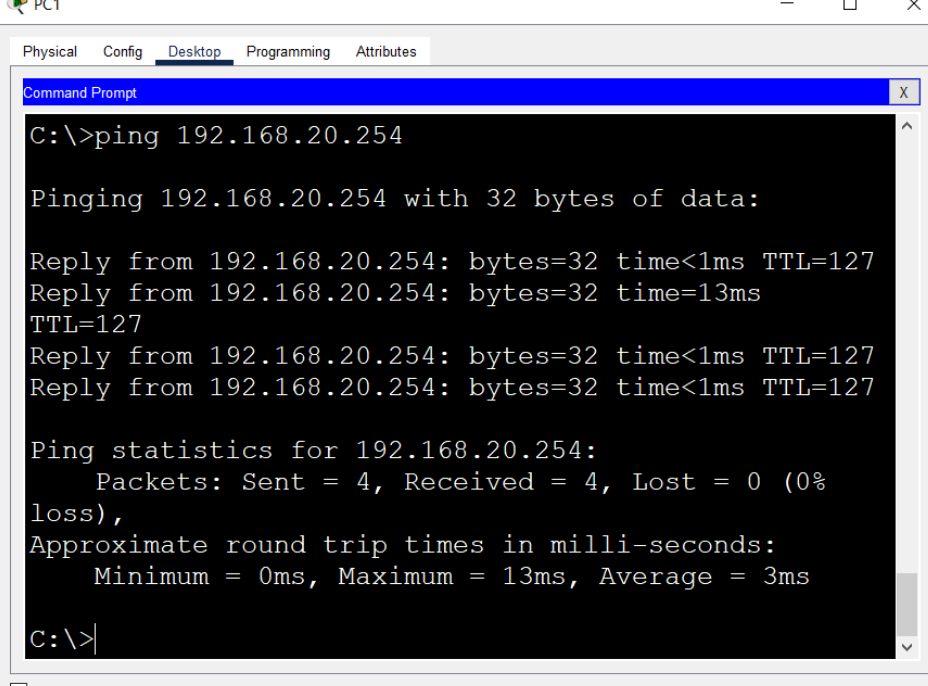


**Figure 4: PC2 successful ping with router**



**Figure 5: PC3 successful ping with router**

**4:**



The screenshot shows a Windows-style window titled "PC1" 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 the command "ping 192.168.20.254". The output indicates a successful ping to the DNS server. The statistics show 4 packets sent and received with 0% loss, and round trip times ranging from 0ms to 13ms.

```
C:\>ping 192.168.20.254

Pinging 192.168.20.254 with 32 bytes of data:

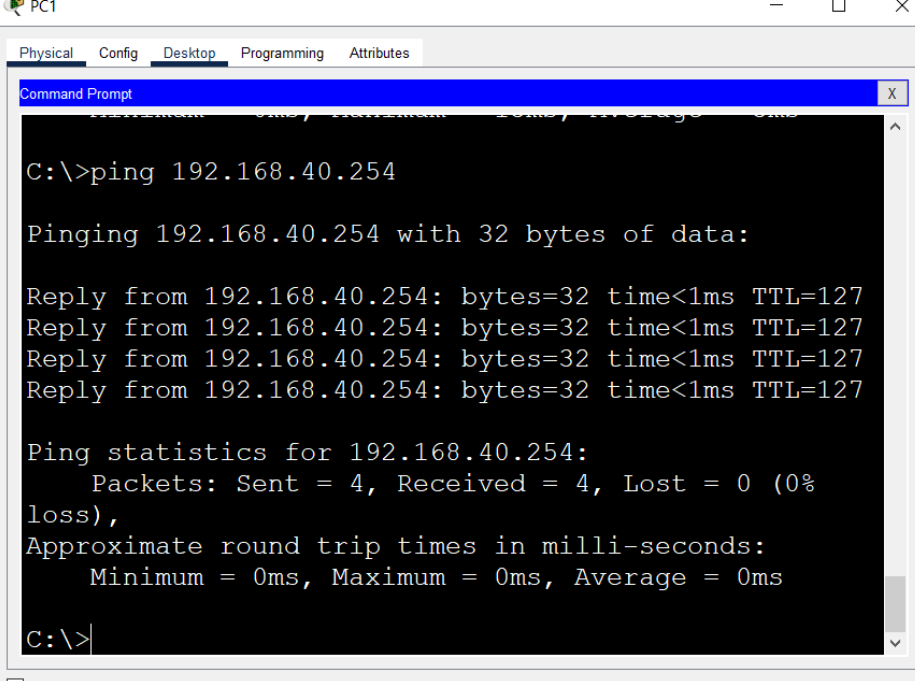
Reply from 192.168.20.254: bytes=32 time<1ms TTL=127
Reply from 192.168.20.254: bytes=32 time=13ms
TTL=127
Reply from 192.168.20.254: bytes=32 time<1ms TTL=127
Reply from 192.168.20.254: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.20.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0%
loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 13ms, Average = 3ms

C:\>
```

**Figure 6: PC1 pinging DNS server successfully**

**5:**



The screenshot shows a similar "PC1" window with the "Desktop" tab active. The "Command Prompt" window displays the command "ping 192.168.40.254". The output shows a successful ping to the web server. The statistics indicate 4 packets sent and received with 0% loss, and all round trip times are 0ms.

```
C:\>ping 192.168.40.254

Pinging 192.168.40.254 with 32 bytes of data:

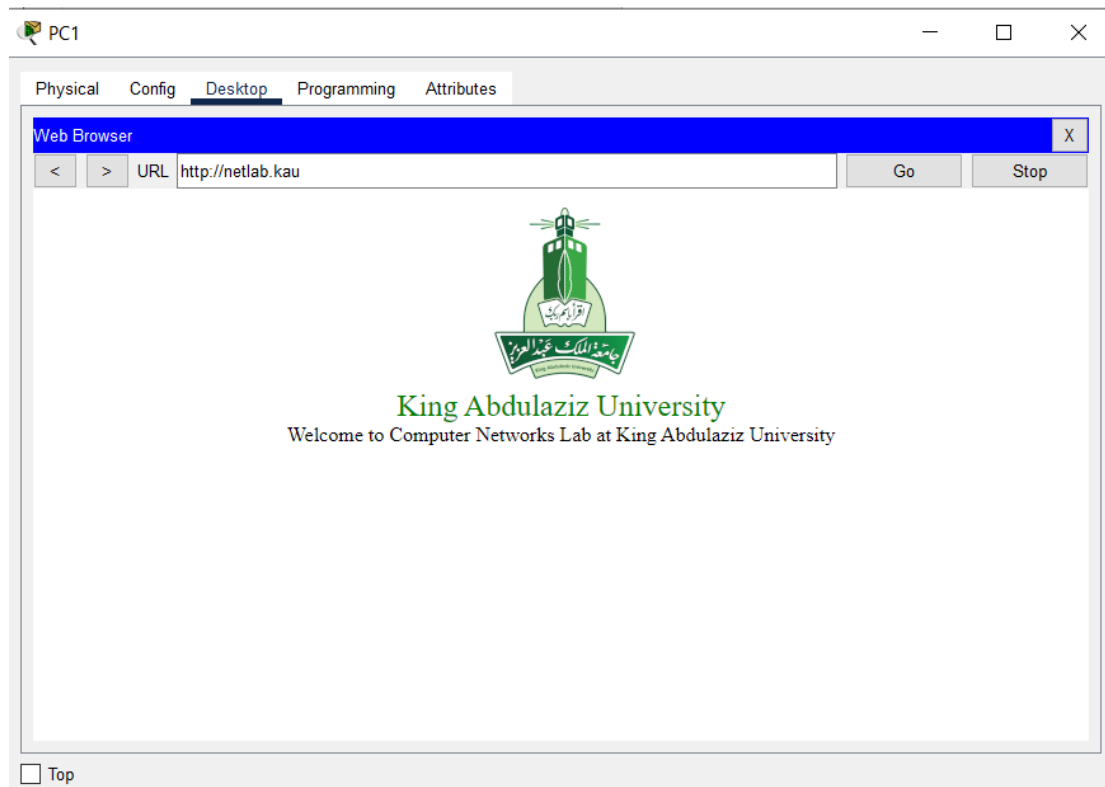
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127
Reply from 192.168.40.254: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.40.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0%
loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

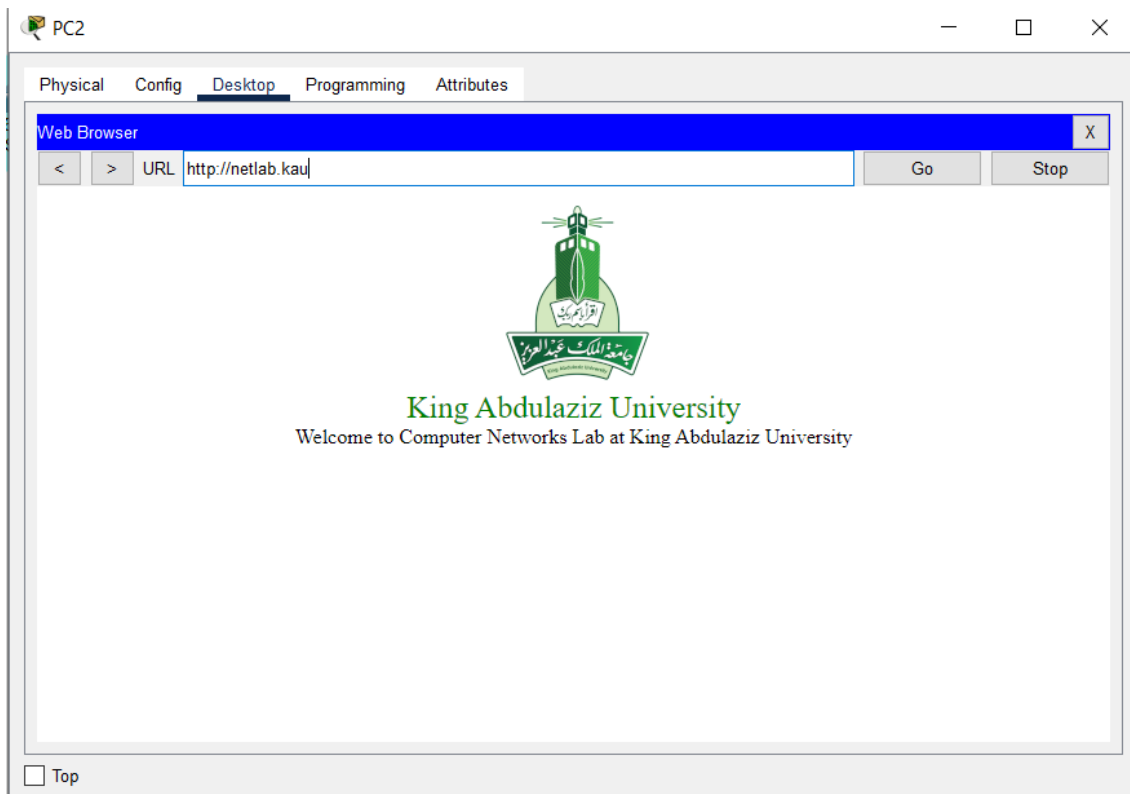
C:\>
```

**Figure 7: PC1 pinging web server successfully**

**6:**



**Figure 8: PC1 accessing web server**



**Figure 9: PC2 accessing web server**

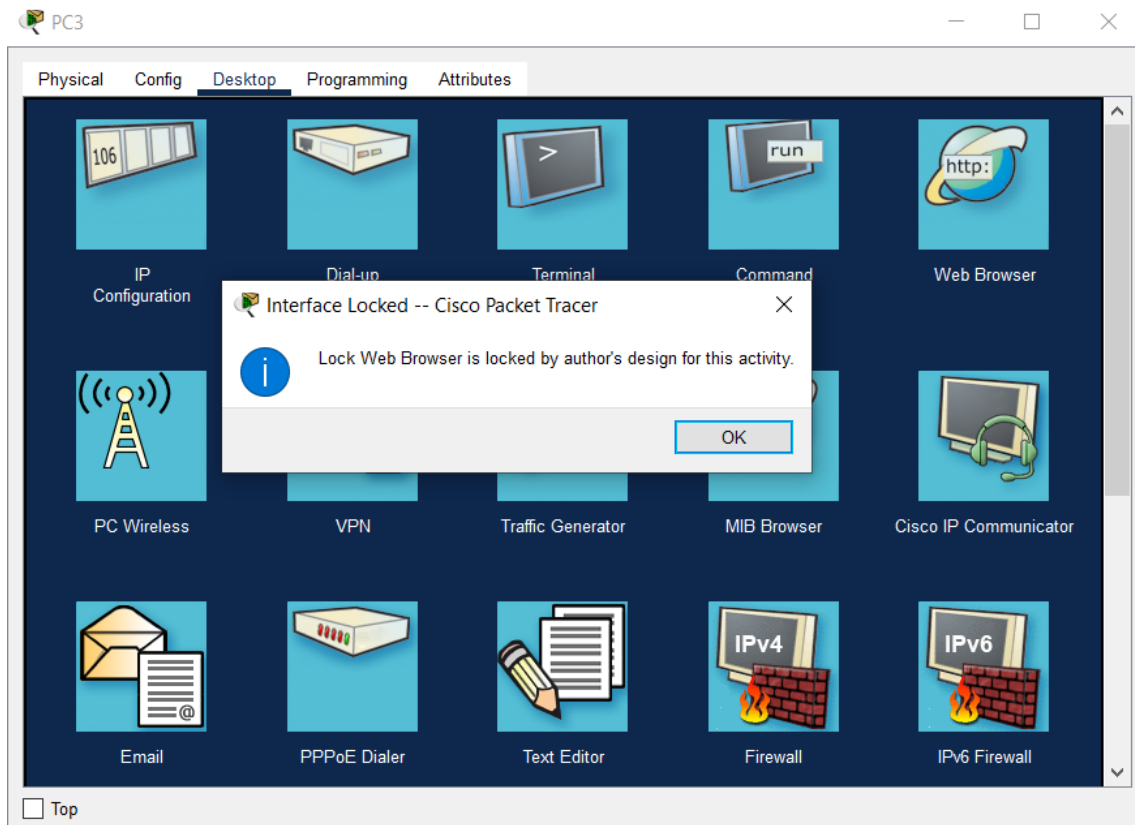


Figure 10: PC3 locked web browser

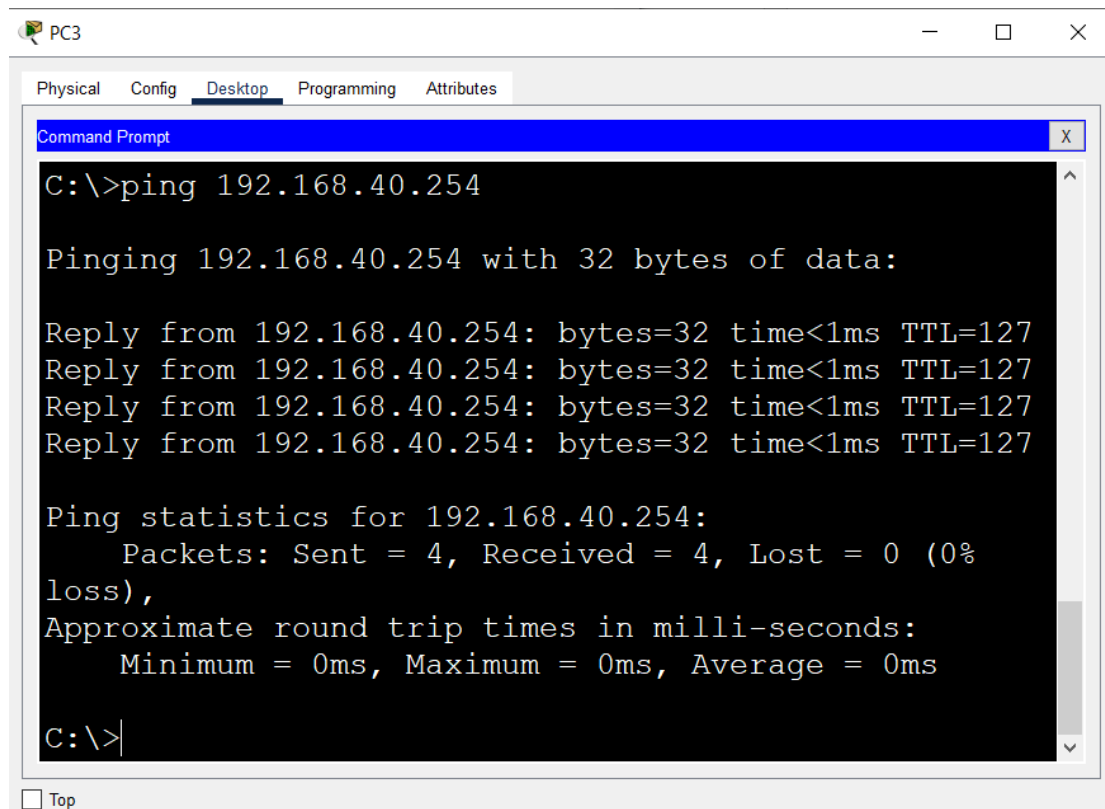


Figure 11: PC3 pinging web server