

How To Use Command Prompt To Ping (Verify Connectivity)

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\WilliamsK>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .                : 192.168.2.202
    Subnet Mask . . . . .              : 255.255.255.0
    Default Gateway . . . . .          : 

Ethernet adapter Wireless Network Connection:

    Media State . . . . .              : Media disconnected

C:\Documents and Settings\WilliamsK>
```

3. Use the **ipconfig** command to see what IP address your laptop is currently set to. Press enter on your keyboard

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```
C:\WINDOWS\system32\cmd.exe - ping 192.168.2.201
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C:\Documents and Settings\WilliamsK>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .                : 192.168.2.202
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    Default Gateway . . . . .          : 

Ethernet adapter Wireless Network Connection:

    Media State . . . . .              : Media disconnected

C:\Documents and Settings\WilliamsK>ping 192.168.2.201

Pinging 192.168.2.201 with 32 bytes of data:

Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
```

4. Use the **ping** command to verify connectivity to networked device by typing in ping (ip address). Press enter on keyboard

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Ethernet adapter Wireless Network Connection:

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C:\Documents and Settings\WilliamsK>ping 192.168.2.201

Pinging 192.168.2.201 with 32 bytes of data:

Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60

Ping statistics for 192.168.2.201:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 2ms, Average = 2ms

C:\Documents and Settings\WilliamsK>ping 192.168.2.201
```

5. Pressing the up arrow on your keyboard will automatically re-input the last command used

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Subnet Mask . . . . . : 255.255.255.0
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Ping statistics for 192.168.2.201:
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C:\Documents and Settings\WilliamsK>ping 192.168.2.201 /t
```

6. Adding /t after your ping command will allow the ping to go on continuously...

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Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
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C:\Documents and Settings\WilliamsK>ping 192.168.2.201 /t

Pinging 192.168.2.201 with 32 bytes of data:

Reply from 192.168.2.201: bytes=32 time=1ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=18ms TTL=60
Reply from 192.168.2.201: bytes=32 time=9ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=1ms TTL=60

Ping statistics for 192.168.2.201:
  Packets: Sent = 9, Received = 9, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 1ms, Maximum = 18ms, Average = 4ms
Control-C
^C
C:\Documents and Settings\WilliamsK>
```

...until you simultaneously press CTRL and C on your keyboard

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Approximate round trip times in milli-seconds:
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C:\Documents and Settings\WilliamsK>ping 192.168.2.201 /t

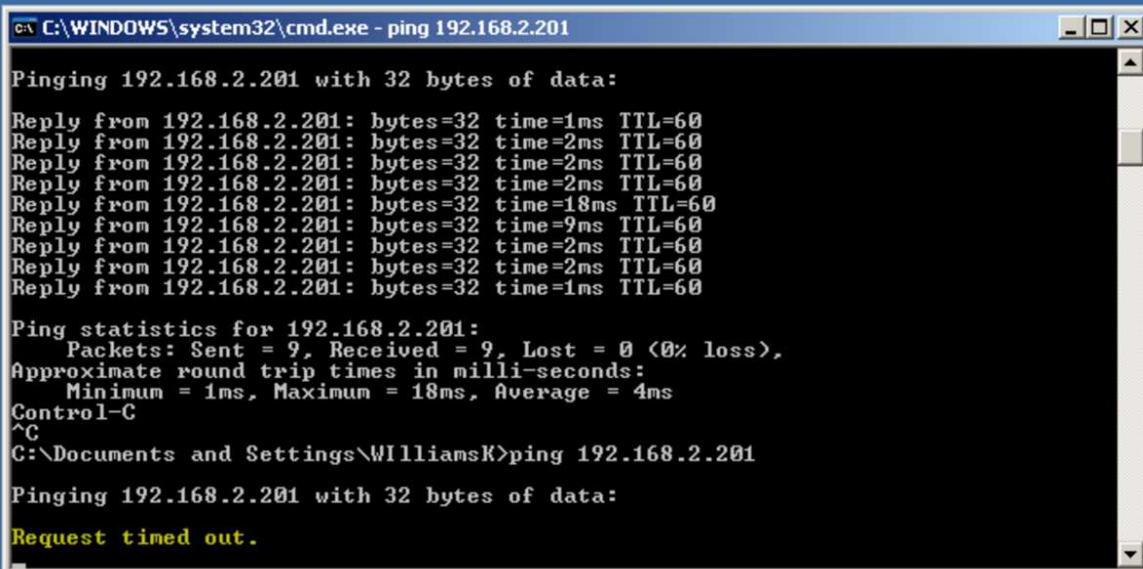
Pinging 192.168.2.201 with 32 bytes of data:

Reply from 192.168.2.201: bytes=32 time=1ms TTL=60
Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
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Reply from 192.168.2.201: bytes=32 time=18ms TTL=60
Reply from 192.168.2.201: bytes=32 time=9ms TTL=60
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```

7. A reply from the device's IP address means there is communication between the device and your laptop

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C:\WINDOWS\system32\cmd.exe - ping 192.168.2.201

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Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=1ms TTL=60

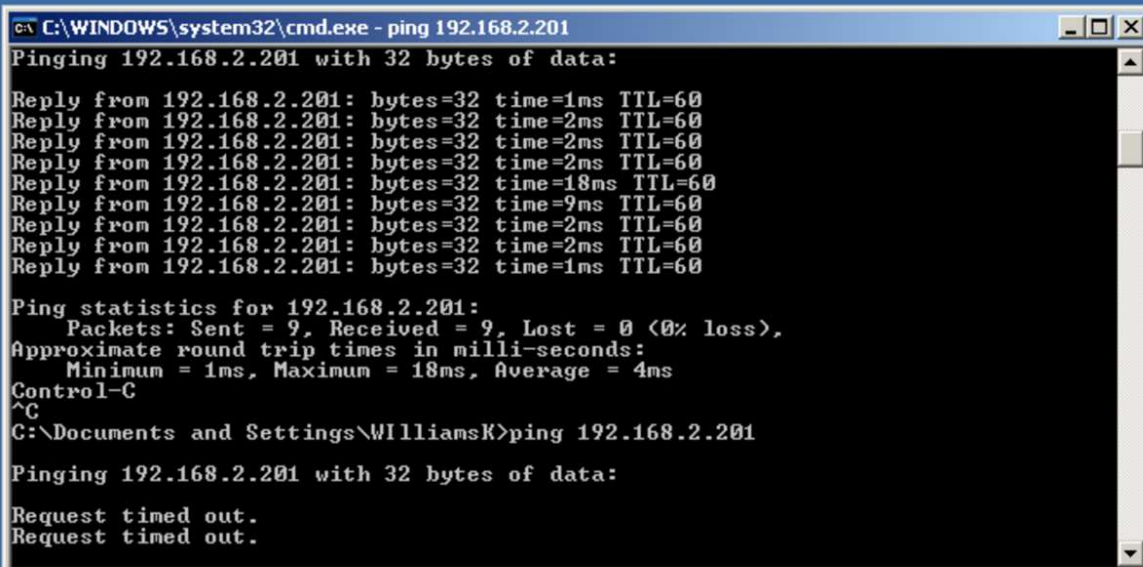
Ping statistics for 192.168.2.201:
    Packets: Sent = 9, Received = 9, Lost = 0 (0% loss),
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        Minimum = 1ms, Maximum = 18ms, Average = 4ms
Control-C
^C
C:\Documents and Settings\WilliamsK>ping 192.168.2.201

Pinging 192.168.2.201 with 32 bytes of data:

Request timed out.
```

7a. If you see Request timed out, it means there is no communication between the device and your laptop

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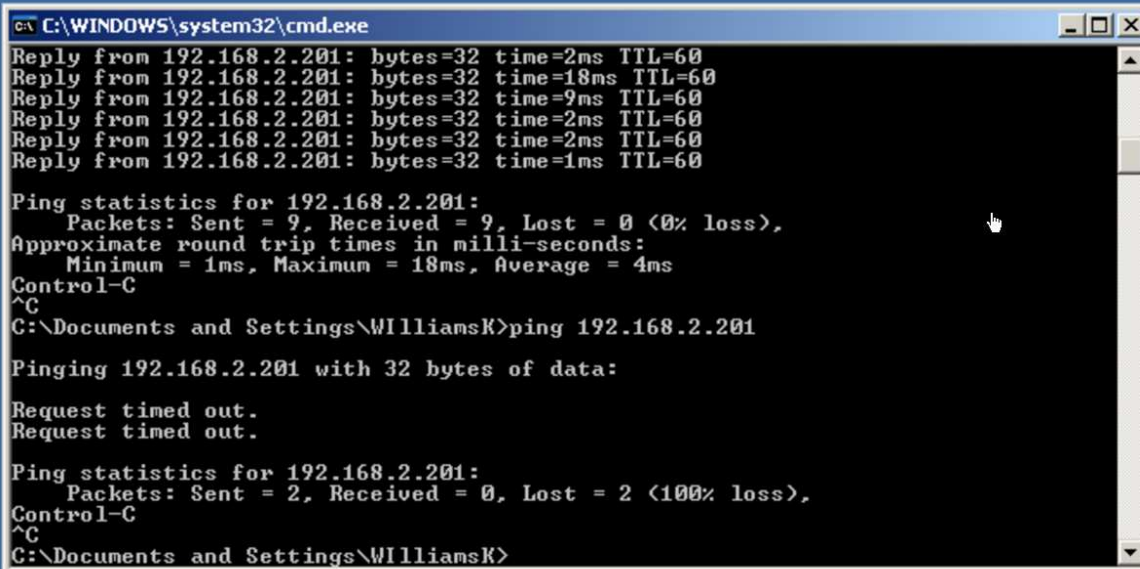
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    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 18ms, Average = 4ms
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C:\Documents and Settings\WilliamsK>ping 192.168.2.201

Pinging 192.168.2.201 with 32 bytes of data:

Request timed out.
Request timed out.
```

7b. Other errors you may see are hardware error or destination host unreachable

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Reply from 192.168.2.201: bytes=32 time=2ms TTL=60
Reply from 192.168.2.201: bytes=32 time=1ms TTL=60

Ping statistics for 192.168.2.201:
    Packets: Sent = 9, Received = 9, Lost = 0 (0% loss),
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        Minimum = 1ms, Maximum = 18ms, Average = 4ms
Control-C
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C:\Documents and Settings\WilliamsK>ping 192.168.2.201

Pinging 192.168.2.201 with 32 bytes of data:

Request timed out.
Request timed out.

Ping statistics for 192.168.2.201:
    Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),
Control-C
^C
C:\Documents and Settings\WilliamsK>
```

7c. Any result other than a successful reply means there is an issue with either the device or the customer's network