



## FAQ How to Ping an IP Address from Windows

### 1. Introduction

- This procedure describes how to check reachability of an instrument in the network using the ping command in Windows.
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### 2. Required Tools

- Windows Computer connected to same network as the instrument you want to check
  - IP address of the instrument to check
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### 3. Find out the IP Address of your Instrument

- Connect to the serial console of your instrument
- In the Main Menu, select **[S]** to enter Shell Command Prompt
- Enter **ifconfig** and confirm with **[Enter]**

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uCon [GMSplus_com6]:
File Edit View Config Logging Scripts Servers Transfer uMon Help
--F2-- --F3-- --F4-- --F5-- --F6-- --F7-- --F8-- --F9--
-B1-- -B3-- -B5-- -B7-- -B9-- -B11-- -B13-- -B15--
-B2-- -B4-- -B6-- -B8-- -B10-- -B12-- -B14-- -B16--
G - View RTC status
A - View Alarm status
P - View GPS information
H - Set RTC time
U - User request
R - Restart
Q - Quit
S
Linux Command: ifconfig
eth0      Link encap:Ethernet  HWaddr 8C:8E:76:00:55:3A
inet addr:192.168.100.12  Bcast:192.168.100.255  Mask:255.255.255.0
inet6 addr: fe80::8e8e:76ff:fe00:553a/64 Scope:Global
UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
RX packets:7994032 errors:0 dropped:6727372 overruns:0 frame:0
TX packets:2566451 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:492494121 (469.6 MiB)  TX bytes:2202568861 (2.0 GiB)
Interrupt:21 Base address:0x4000

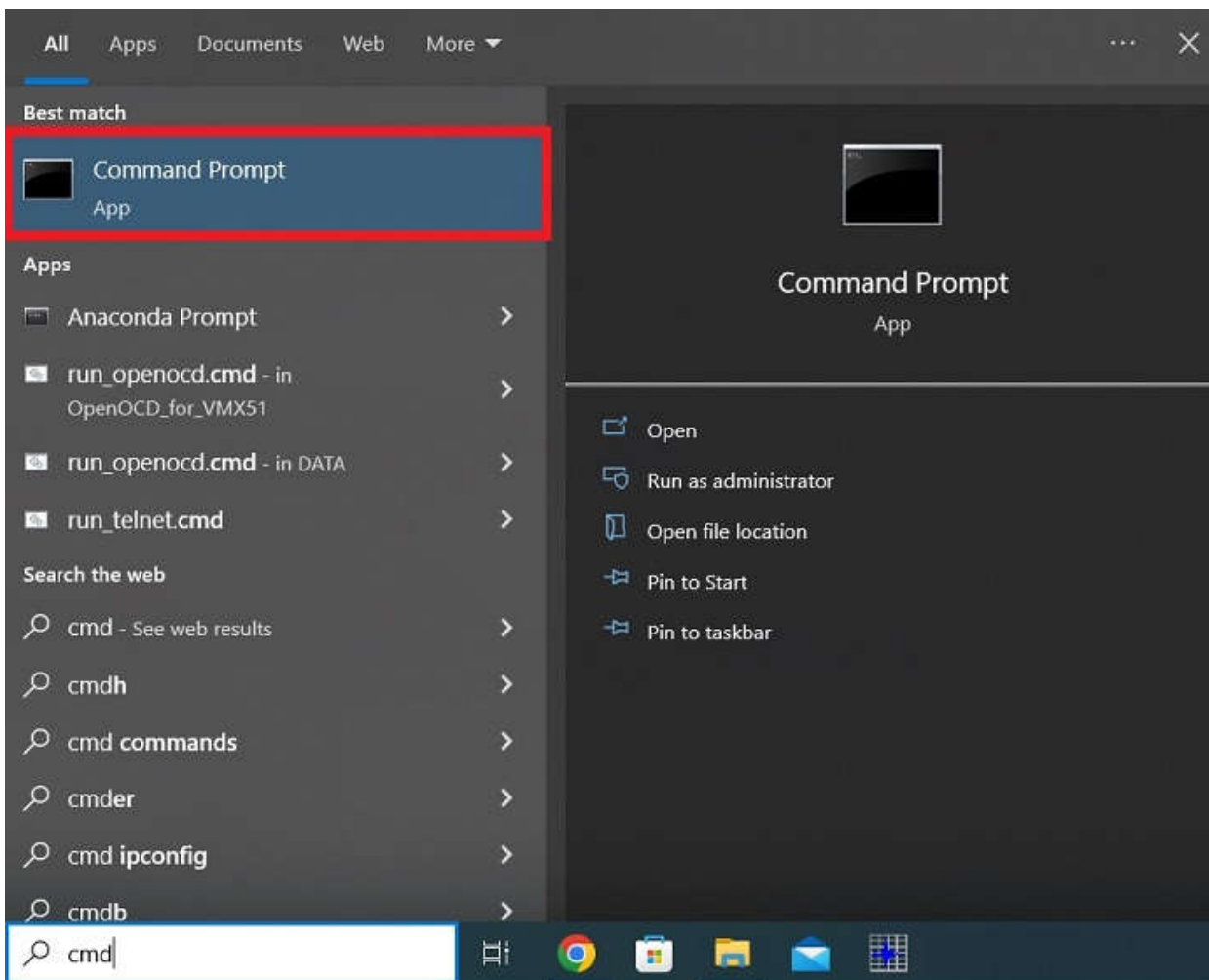
lo        Link encap:Local Loopback
inet addr:127.0.0.1  Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING  MTU:16436  Metric:1
RX packets:361387 errors:0 dropped:0 overruns:0 frame:0
TX packets:361387 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:31802112 (30.3 MiB)  TX bytes:31802112 (30.3 MiB)

wlan0     Link encap:Ethernet  HWaddr 00:00:F0:BF:21:DE
inet addr:169.254.149.110  Bcast:169.254.255.255  Mask:255.255.0.0
UP BROADCAST MULTICAST  MTU:1500  Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
```

- The IP address of your instrument's Ethernet adaptor will be shown under **eth0** as **inet addr:xxx.xxx.xxx.xxx**
- If your instrument is connected through Wifi, the IP can be found under **wlan0** and will be shown as **inet addr:xxx.xxx.xxx.xxx**
- If the IP starts with **169.254.xxx.xxx**, your instrument is most likely not connected to a network

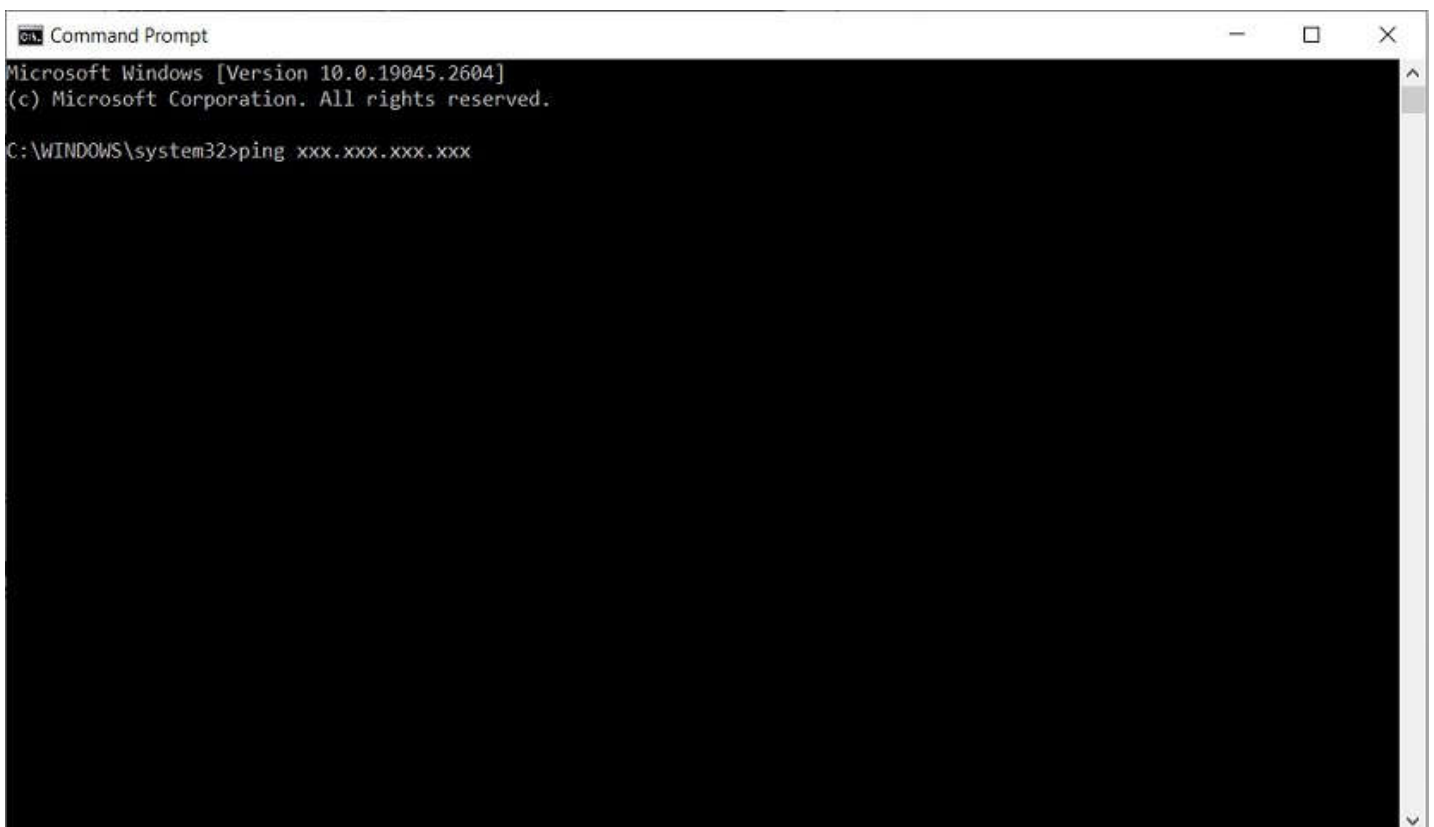
#### 4. Start Windows Command Prompt

- Open the Windows Search Menu for Programs
- Search for **cmd**
- Open the Command Prompt App



## 5. Execute Ping Command

- A new windows appears
- Type **ping**, add a space and then insert the IP address of the instrument you want to ping (put the IP numbers in place of the xx)

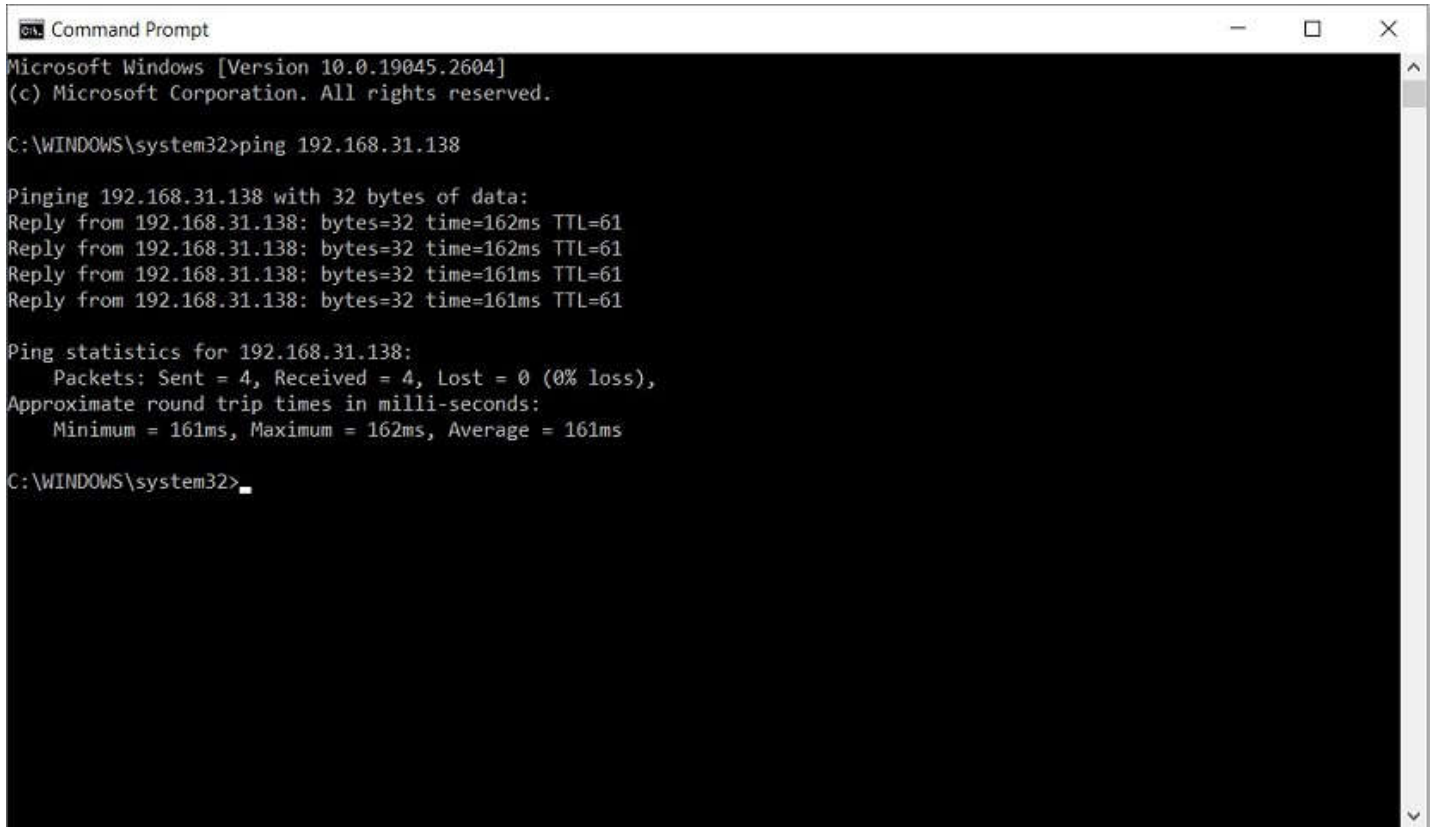


- Confirm pressing [**Enter**] key on your keyboard

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## 6. Check Result

- It will try to contact the IP 4 times
- If the instrument is reachable, **Reply from xxx.xxx.xxx.xxx** will be plotted



```
Command Prompt
Microsoft Windows [Version 10.0.19045.2604]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>ping 192.168.31.138

Pinging 192.168.31.138 with 32 bytes of data:
Reply from 192.168.31.138: bytes=32 time=162ms TTL=61
Reply from 192.168.31.138: bytes=32 time=162ms TTL=61
Reply from 192.168.31.138: bytes=32 time=161ms TTL=61
Reply from 192.168.31.138: bytes=32 time=161ms TTL=61

Ping statistics for 192.168.31.138:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 161ms, Maximum = 162ms, Average = 161ms

C:\WINDOWS\system32>
```

- If the instrument is not reachable, **Request timed out.** will be plotted
  - If the instrument is not reachable, check hardware connections and network configuration on your computer and instrument or contact your Network Administrator (there may be a Firewall blocking communication)
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