

FAQ How to Ping a Windows Computer from Recorder Serial Console

1. Introduction

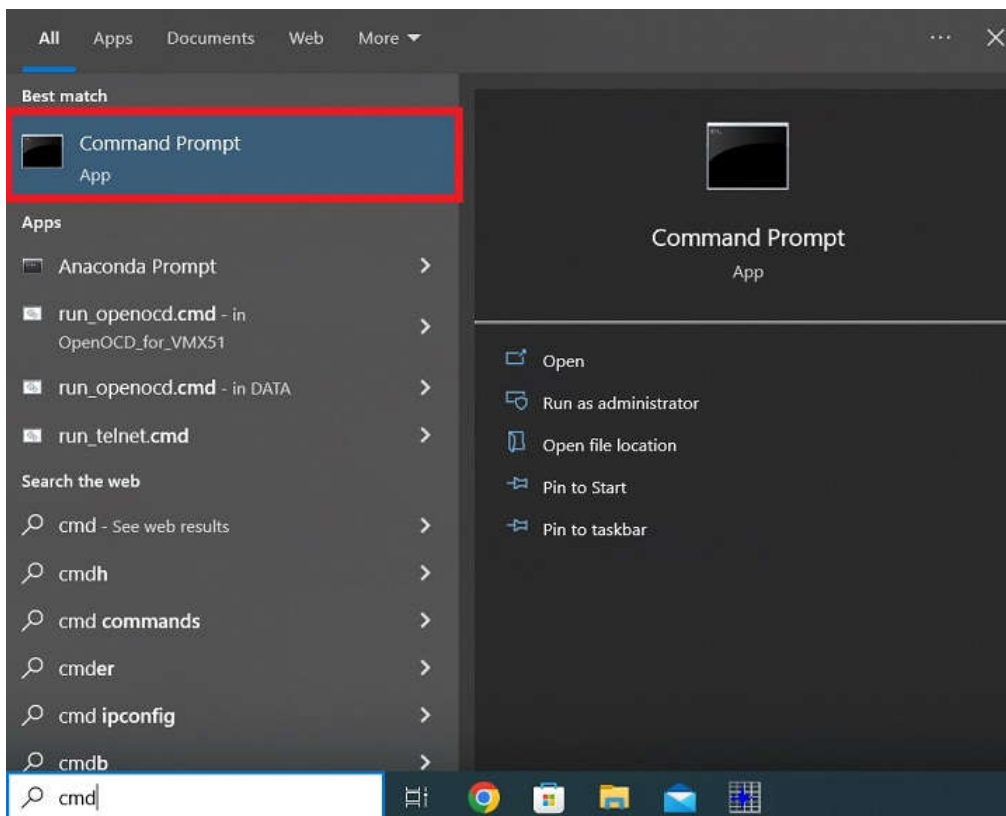
- This procedure describes how to check reachability of a Windows computer in the network using the ping from recorder serial console.

2. Required Tools

- Serial console of your GeoSIG instrument connected to a computer
- GeoSIG instrument connected to same network as the Windows computer you want to check
- IP address of the computer to check

3. Find out the IP Address of your Computer

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



- A new window appears
- Type **ipconfig** and confirm pressing **[Enter]** key on your keyboard

```
Command Prompt
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C:\WINDOWS\system32>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    IPv6 Address. . . . . : 2800:bf0:fed:fed:63dc:2395:63dc:9a10
    Temporary IPv6 Address. . . . . : 2800:bf0:fed:fed:63dc:63dc:40ab:1a28
    Link-local IPv6 Address . . . . . : fe80::b0cc:3441:e8b:a228%16
    IPv4 Address. . . . . : 192.168.100.10
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%16
                               192.168.100.1

Wireless LAN adapter WiFi:

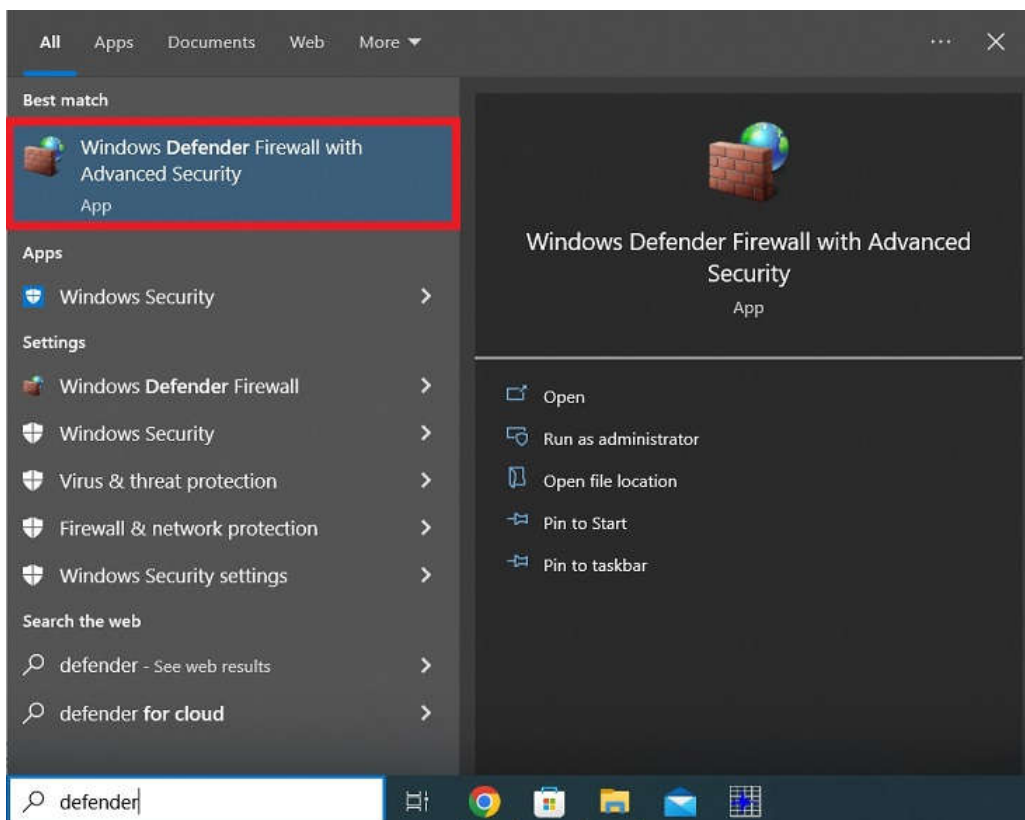
    Connection-specific DNS Suffix  . : 
    IPv6 Address. . . . . : 2800:bf0:fed:fed:9a10:c68f:de6c:9a10
    Temporary IPv6 Address. . . . . : 2800:bf0:fed:fed:34b9:ced2:7bbe:9a10
    Link-local IPv6 Address . . . . . : fe80::ac9c:b2f:8c3d:e031%25
    IPv4 Address. . . . . : 192.168.100.11
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%25
                               192.168.100.1

C:\WINDOWS\system32>
```

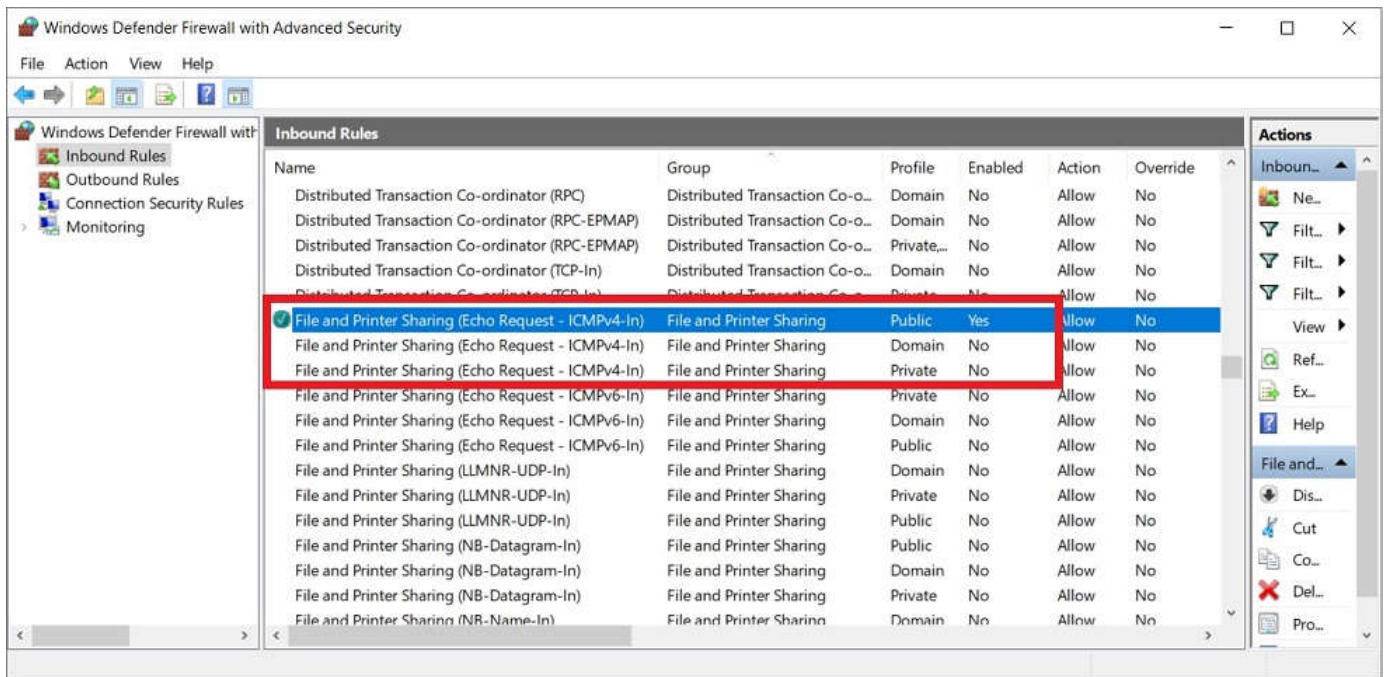
- The IP address of your computer's Ethernet adaptor will be shown under **Ethernet adapter**, the IP is listed as **IPv4 Address.....: xxx.xxx.xxx.xxx**
- If your instrument is connected through Wifi, the IP can be found under **Wireless LAN adapter** and will be shown as **IPv4 Address.....: xxx.xxx.xxx.xxx**
- If the IP starts with **169.254.xxx.xxx**, your computer is most likely not connected to a network

4. Make sure your Computer can receive Ping Commands

- Open the Windows Search Menu for Programs
- Search for **defender**
- Open the Windows Defender Firewall with Advanced Security



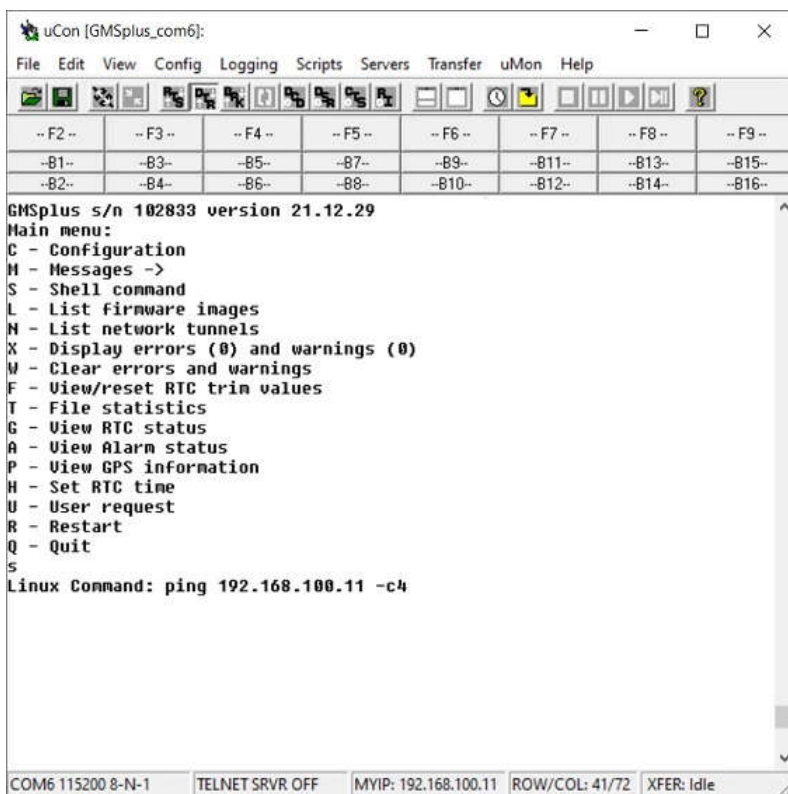
- Choose **Inbound Rules**
- Scroll to the entries **File and Printer Sharing (Echo Request - ICMPv4-In)**



- Check the column **Enabled** and make sure the entry for your current profile is set to **Yes**
- If it shows **No**, you can enable it with right-click -> **Enable Rule**

5. Execute Ping Command on your GeoSIG Instrument

- Connect to the serial console of your instrument
- In the Main Menu, select **[S]** to enter Shell Command Prompt
- Enter **ping xxx.xxx.xxx.xxx -c4** (put the IP address of the computer to ping in place of the xxx) and confirm with **[Enter]**



6. Check Result

- The instrument will try to contact the IP 4 times
- If the computer is reachable, **4 packets transmitted, 4 packets received, 0% packet loss** will be plotted

The screenshot shows a terminal window titled "uCon [GMSplus_com6]". The window has a menu bar with "File", "Edit", "View", "Config", "Logging", "Scripts", "Servers", "Transfer", "uMon", and "Help". Below the menu bar is a toolbar with various icons. The main area of the terminal displays the following text:

```
Linux Command: ping 192.168.100.11 -c4
PING 192.168.100.11 (192.168.100.1
1): 56 data bytes
64 bytes from 192.168.100.11: seq=0 ttl=128 time=4.154 ms
64 bytes from 192.168.100.11: seq=1 ttl=128 time=9.968 ms
64 bytes from 192.168.100.11: seq=2 ttl=128 time=1.959 ms
64 bytes from 192.168.100.11: seq=3 ttl=128 time=3.023 ms

--- 192.168.100.11 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 1.959/4.776/9.968 ms
```

At the bottom of the terminal window, there is a status bar with the following information: "COM6 115200 8-N-1", "TELNET SRVR OFF", "MYIP: 192.168.100.11", "ROW/COL: 41/72", and "XFER: Idle".

- If the computer is not reachable, **4 packets transmitted, 0 packets received, 100% packet loss** will be plotted
 - If the computer 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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