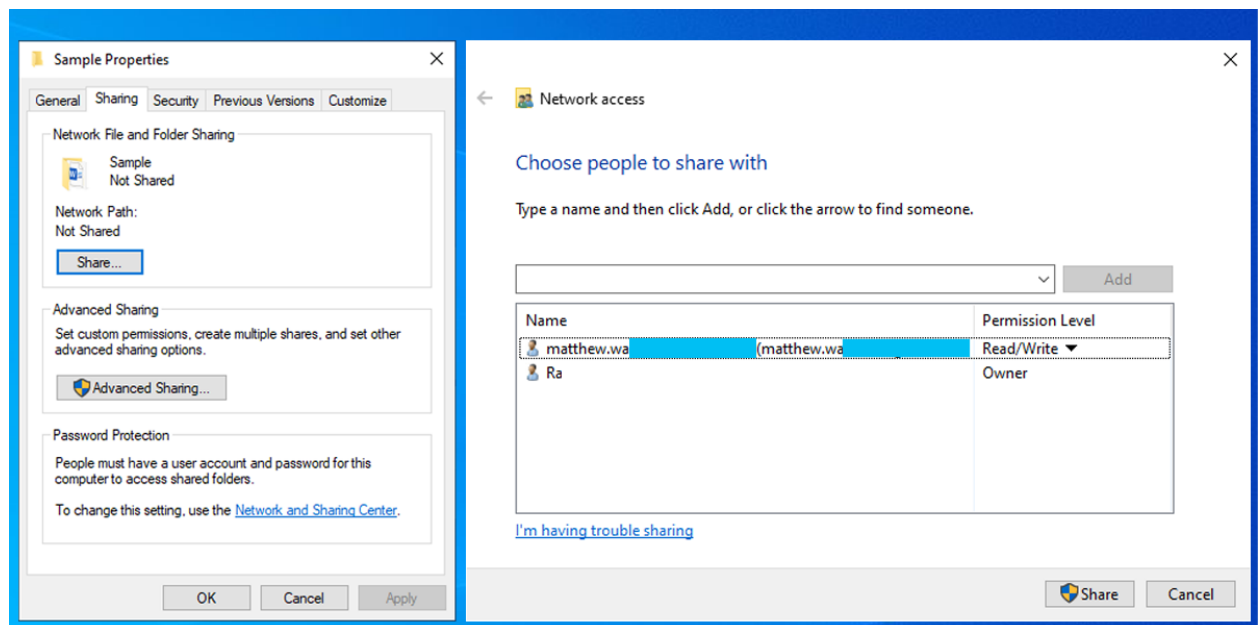


# Share and access file folder using SMB Protocol on a private network.

## Step 1: Share Files and Folders via File Explorer

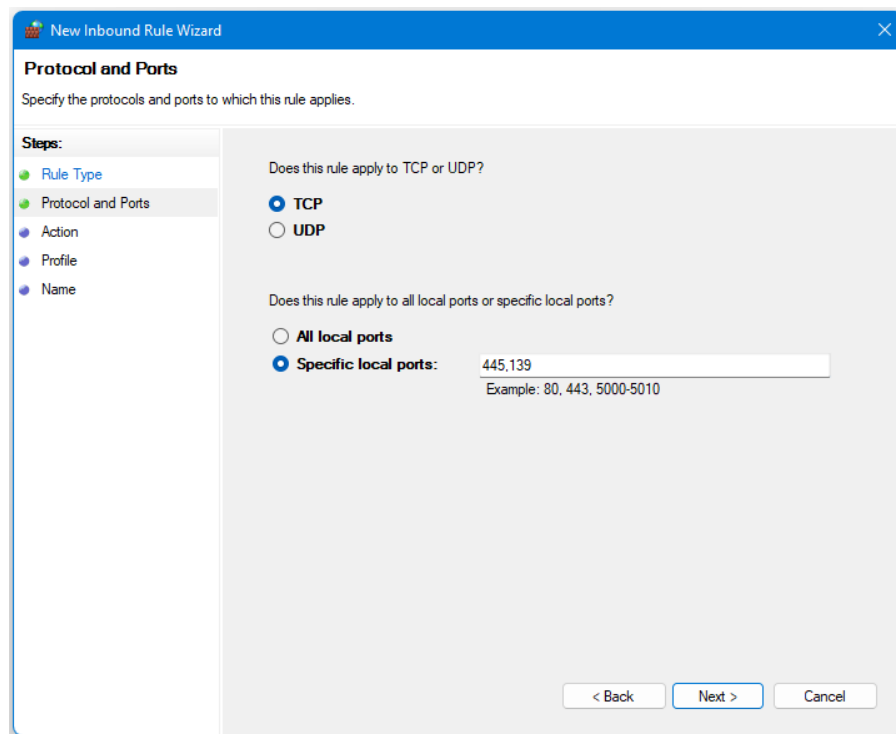
1. Open File Explorer and browse to the folder you want to share. Or
2. Create a new folder anywhere in the computer and name it as you want. (In this demonstration we're using our C:\Sample folder)
3. Right-click on the folder and select Properties.
4. Select the Sharing tab > Share.
5. Within the Network access window, select the group or user you want to share the folder or the file.
6. Click Add > Share.
7. Copy or email the network path.
8. Click Done.



You can use Permission Level to select the level of access for the shared file or folder. You can set it to Read (default) if you want other users to view and open files. If you set it to Read/Write, other users can view, open, change and delete what you are sharing.

## Step 2: Open SMB ports (445,139) in Windows firewall.

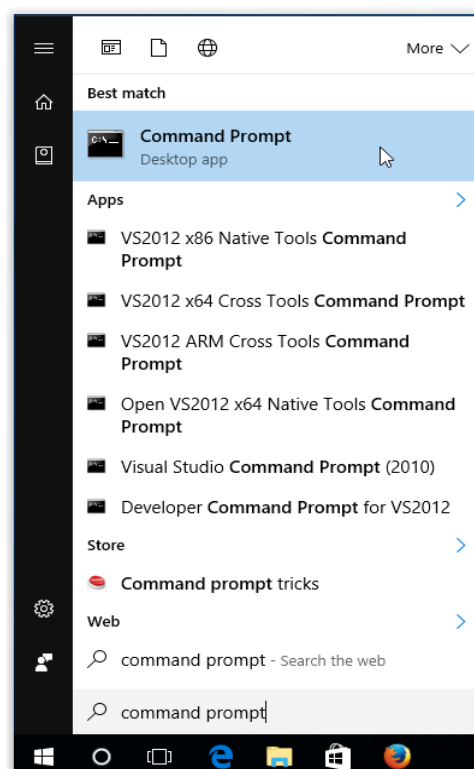
1. Navigate to Control Panel, System and Security and Windows Firewall.
2. Select Advanced settings and highlight Inbound Rules in the left pane.
3. Right click Inbound Rules and select New Rule.
4. Add the port (445,139) you need to open and click Next.
5. Add the protocol (TCP or UDP) and the port number into the next window and click Next.
6. Select Allow the connection in the next window and hit Next.
7. Select the network type as you see fit and click Next.
8. Name the rule something meaningful and click Finish



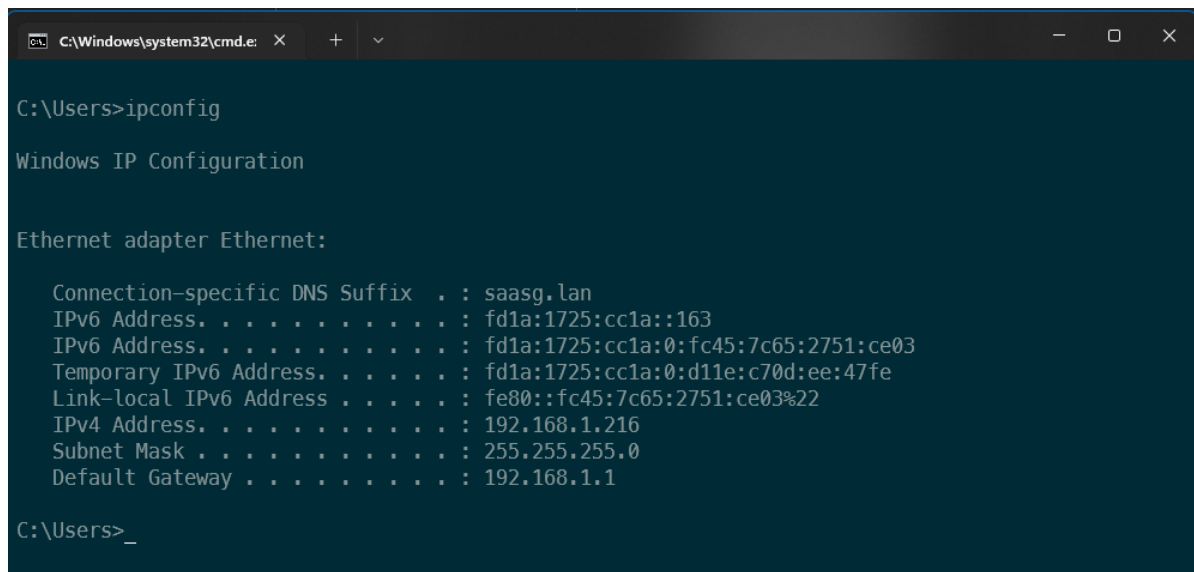
You have now opened a firewall port in Windows 10!

### Step 3: Find your IP Address on Windows: Using the Command Prompt

1. Open the **Command Prompt**.
  - a. Click the **Start** icon, type **command prompt** into the *search bar* and press clicks the **Command Prompt** icon.



2. Type `ipconfig` and press **Enter**.



```
C:\Windows\system32\cmd.exe X + v
C:\Users>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

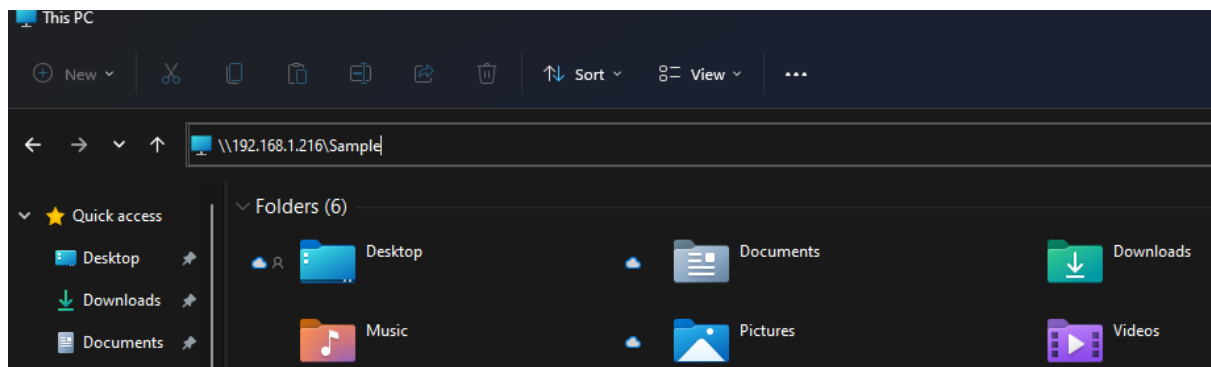
    Connection-specific DNS Suffix  . : saasg.lan
    IPv6 Address. . . . . : fd1a:1725:cc1a::163
    IPv6 Address. . . . . : fd1a:1725:cc1a:0:fc45:7c65:2751:ce03
    Temporary IPv6 Address. . . . . : fd1a:1725:cc1a:0:d11e:c70d:ee:47fe
    Link-local IPv6 Address . . . . . : fe80::fc45:7c65:2751:ce03%22
    IPv4 Address. . . . . : 192.168.1.216
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

C:\Users>_
```

3. The *IP Address* will display along with other LAN details as like above picture.

#### Step 4: Connect to shared files over the network

1. Open File Explorer.
2. Right-click and paste the network path for the shared folder in the address bar and press Enter.



3. Confirm your account credentials (if applicable).
4. Upload, download, or modify files as necessary.

Once you complete the steps, Congratulation! You've successfully implemented a file server using the SMB protocol.