

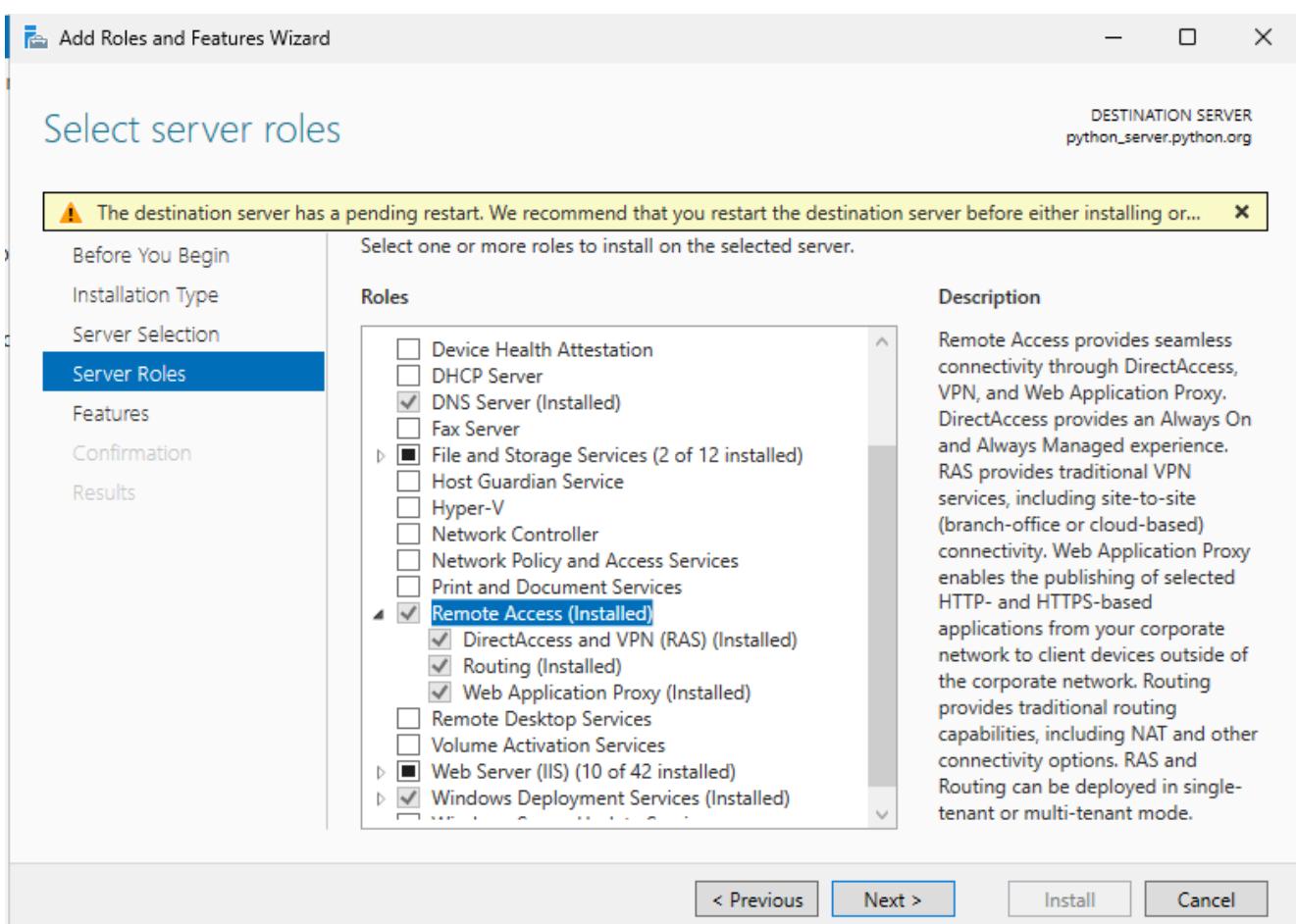
Windows VPN Connection

This guide explains how to create a VPN (dial-up) connection using **Windows Server 2025** and **Windows 11**.

Part 1: VPN Server Setup (Windows Server 2025)

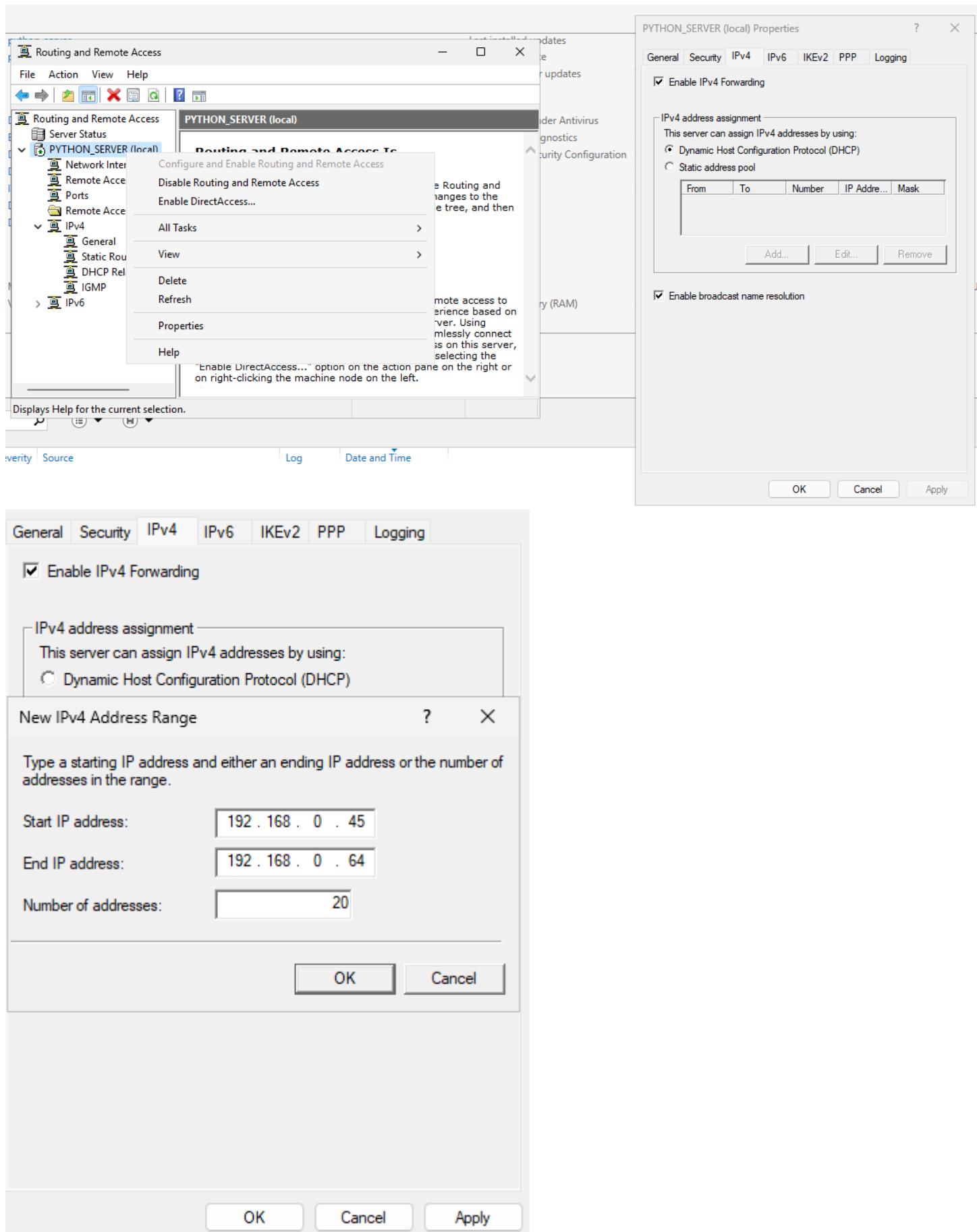
Step 1: Install Remote Access Role

1. Open **Server Manager**
2. Click **Add Roles and Features**
3. Select **Role-based or feature-based installation**
4. Choose your server
5. Select **Remote Access**
6. Tick:
 - DirectAccess and VPN (RAS)
 - Routing
7. Click **Install**



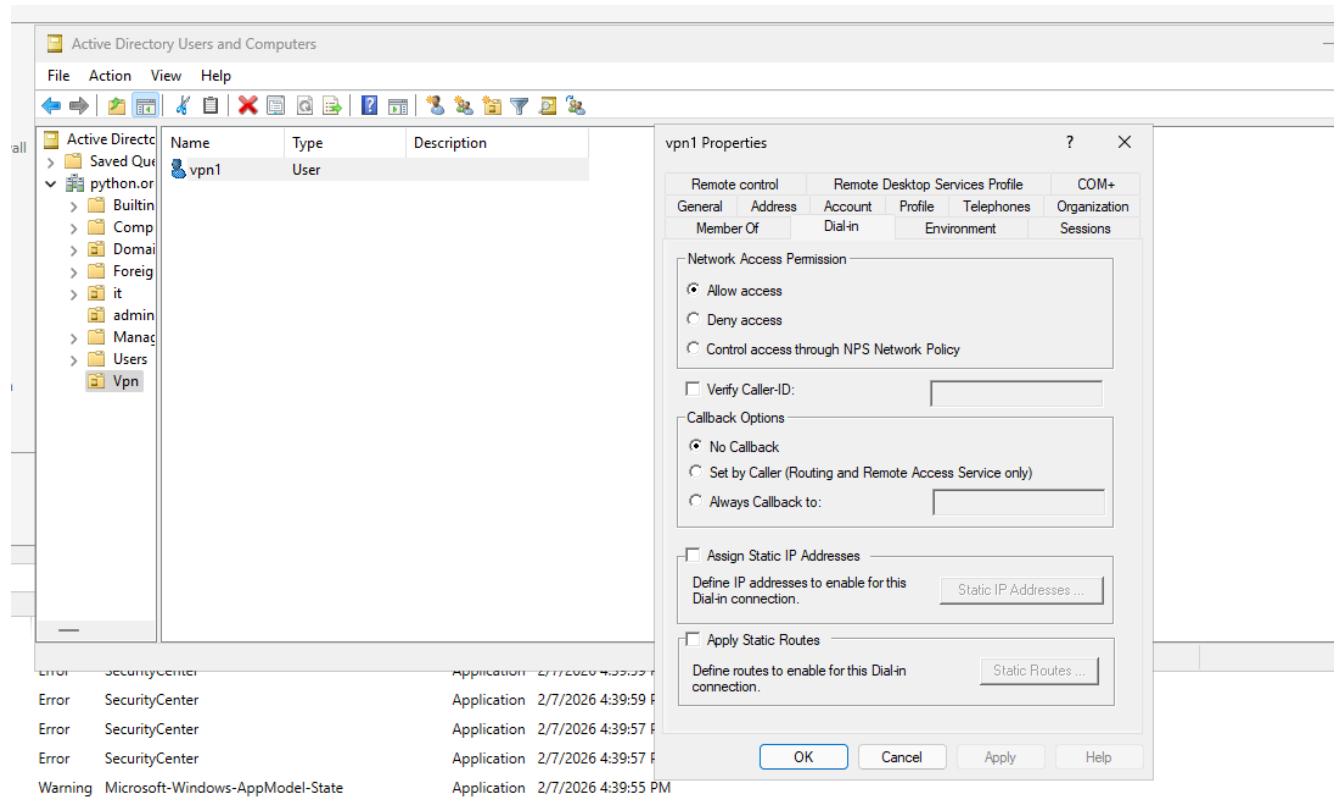
Step 2: Configure RRAS (VPN Server)

1. Open **Server Manager** → **Tools** → **Routing and Remote Access**
2. Right-click your server → **Select Properties**
3. Choose **IPv4**
4. Select **Static address pool** → **Enter ip Address Range** → **OK** → **Apply**
5. Finish and **Start the service**



Step 3: Enable User VPN Access

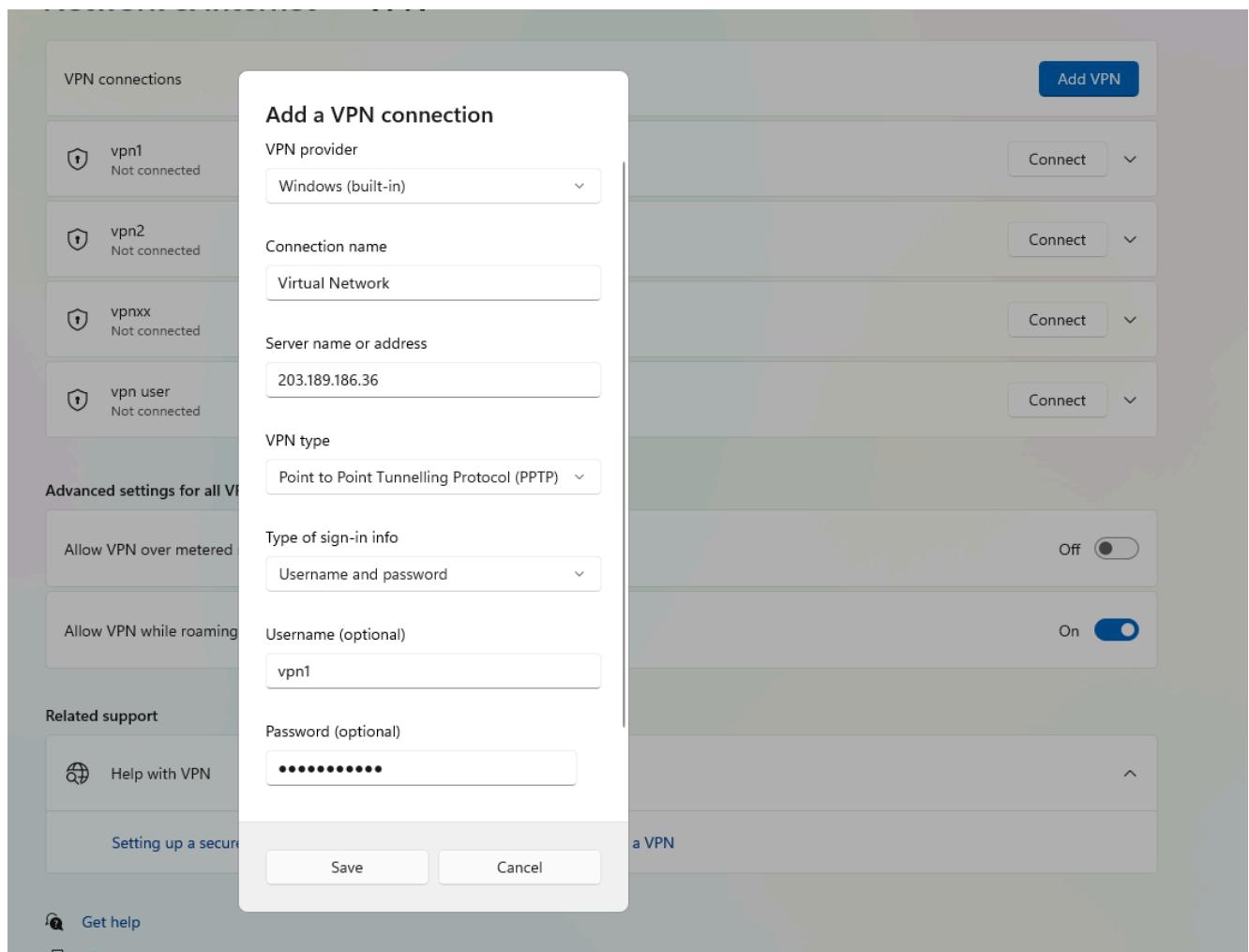
1. Open Active Directory Users and Computers
2. Right-click user → Properties
3. Go to Dial-in tab
4. Select Allow access
5. Click OK



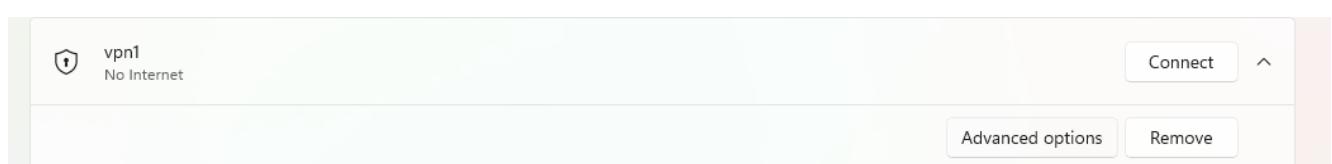
Part 2: VPN Client Setup (Windows 11)

Step 5: Create VPN Connection

1. Go to **Settings** → **Network & Internet** → **VPN**
2. Click **Add VPN**
3. Fill details:
 - VPN Provider: **Windows (built-in)**
 - Connection Name: *Office VPN*
 - Server name/IP: *(Public IP ex - 203.189.186.36)*
 - VPN type: **PPTP**
 - Username & Password
4. Click **Save**



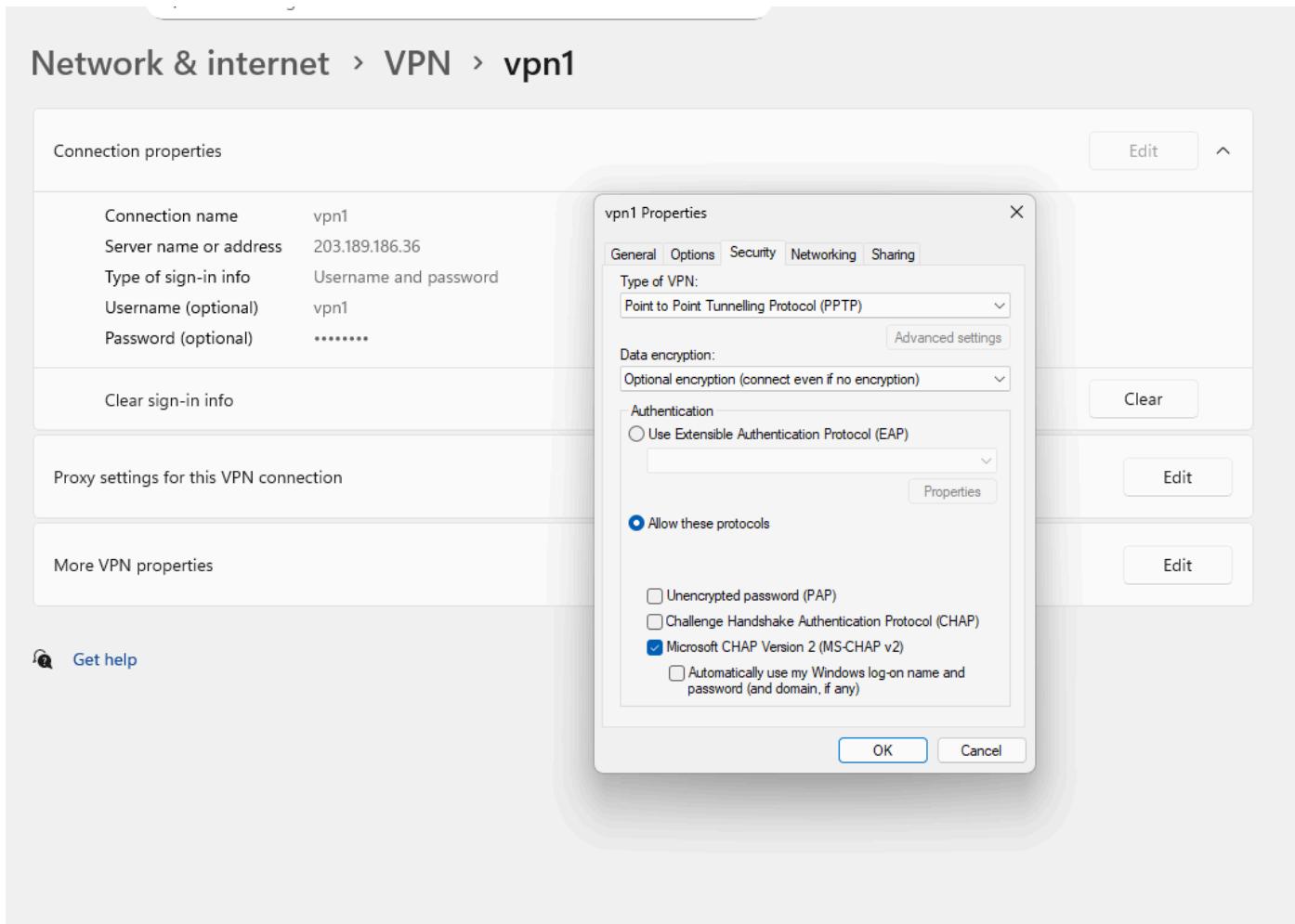
5. Click **Advanced options**



6. Click **Security Tab** chose those Setting Like this Image view

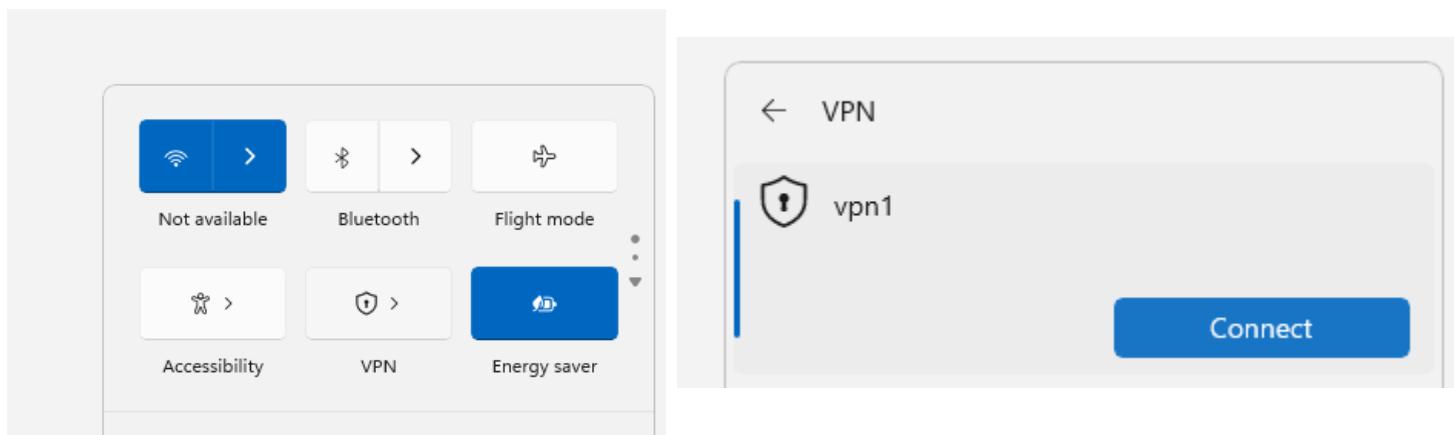
Vpn type - (**pptp**)

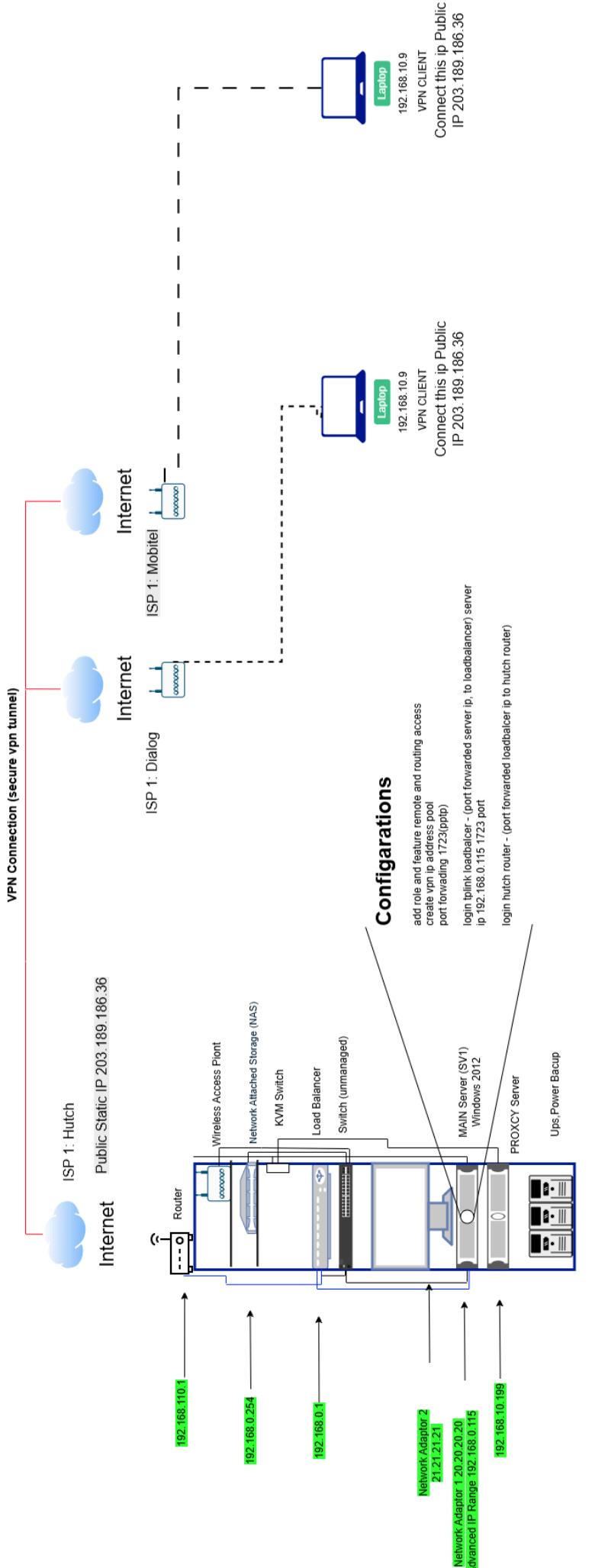
Allow these Protocols and **Chose 3rd Optoin**



Step 6: Go to Windows 11 Client Connect to VPN

1. Click **Connect**
2. Status shows **Connected**





Part 4: Network Diagram & Port Forwarding (Important)

The network diagram shows how the **VPN client** connects to the **VPN server** through the **internet router** and **load balancer**.

Additional Configuration Done

1. **Internet Router Configuration**
 - PPTP VPN uses **TCP Port 1723**
 - Port **1723** is forwarded from the **public IP** to the **Load Balancer IP**
2. **Load Balancer Configuration**
 - Load balancer receives PPTP traffic on **TCP 1723**
 - Traffic is forwarded to the **VPN Server internal IP**
 - Load balancer IP range is allowed for VPN traffic
3. **VPN Server Configuration**
 - PPTP port **1723** allowed in Windows Firewall
 - RRAS service listening on VPN server IP

Traffic Flow (Simple)

VPN Client → Internet → Router (Port 1723) → Load Balancer → VPN Server

This ensures secure VPN connectivity between **external clients** and the **internal network**.