

How to Install VPN on Windows Server



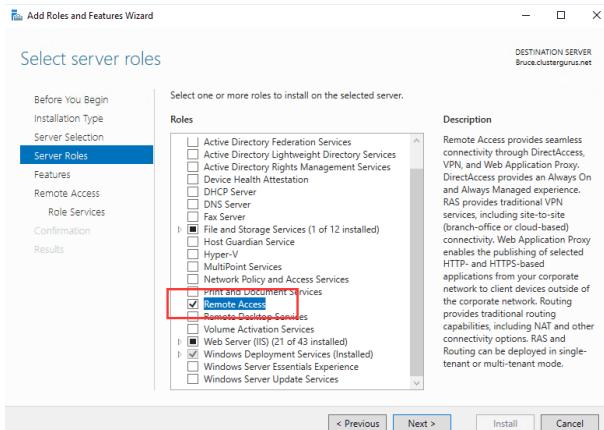
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Introduction

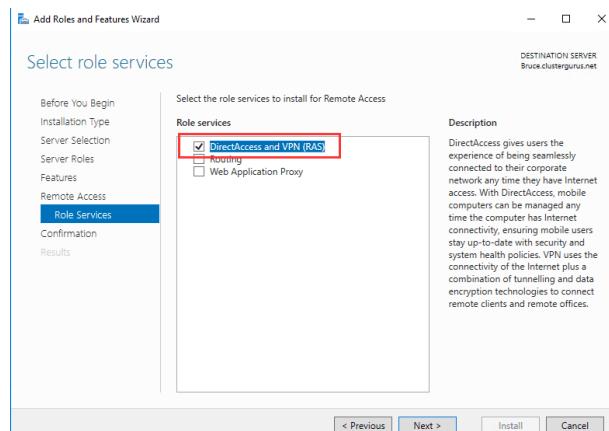
Setting up a VPN (Virtual Private Network) on Windows Server 2016 or 2019 allows secure remote connections for your users. This step-by-step beginner-friendly guide shows how to install the Remote Access role, configure Routing and Remote Access Service (RRAS), open firewall ports, and enable user accounts for VPN access.

Step 1: Install the VPN Role (Remote Access)

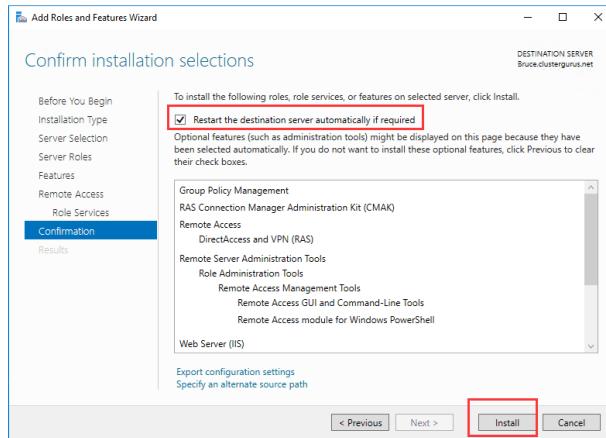
1. Open **Server Manager**.
2. Go to **Manage > Add Roles and Features**.
3. Select **Role-based or feature-based installation**.
4. Choose your server.
5. Under **Server Roles**, select **Remote Access**.



6. Under **Role Services**, select **DirectAccess and VPN (RAS)**.

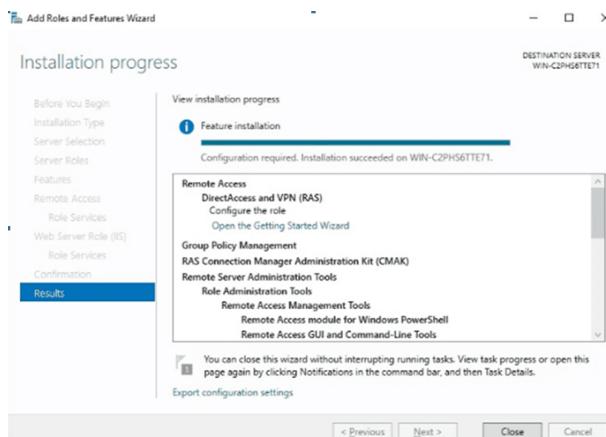


7. Proceed with the default settings and click **Install**.

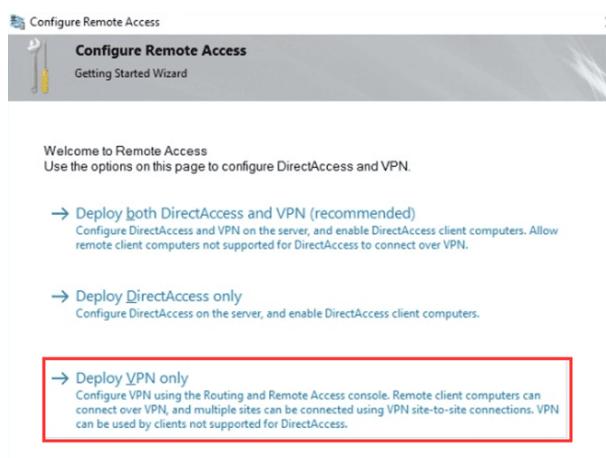


Step 2: Start the VPN Configuration Wizard

1. In Server Manager, click Notifications.
2. Select Open the Getting Started Wizard.



3. Choose Deploy VPN only to start VPN setup.



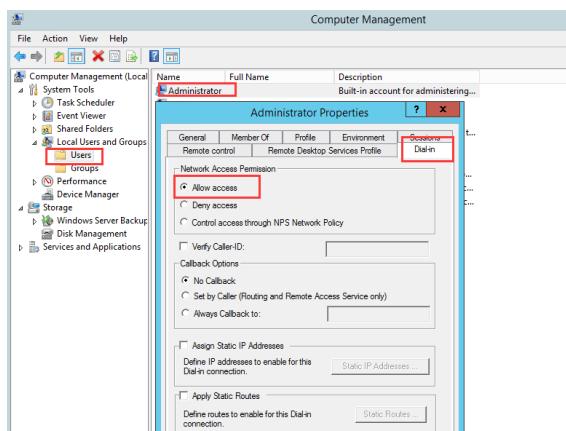
Step 5: Open Required Firewall Ports

To allow VPN traffic, make sure these ports are open and forwarded:

- PPTP VPN: TCP 1723 + GRE (Protocol 47)
- L2TP over IPsec VPN: UDP 1701, 500, 4500
- SSTP VPN: TCP 443
- IKEv2 VPN: UDP 500, 4500

Step 6: Enable VPN Access for Users

- 1. Open Active Directory Users and Computers.
- 2. Right-click user > Properties > Dial-in tab.
- 3. Select Allow access.



Step 7: Test the VPN Connection

1. On a client PC, create a new VPN connection.
2. Enter the server's public IP or hostname.
3. Log in with a user account enabled for VPN access.
4. Confirm that the connection is successful.