

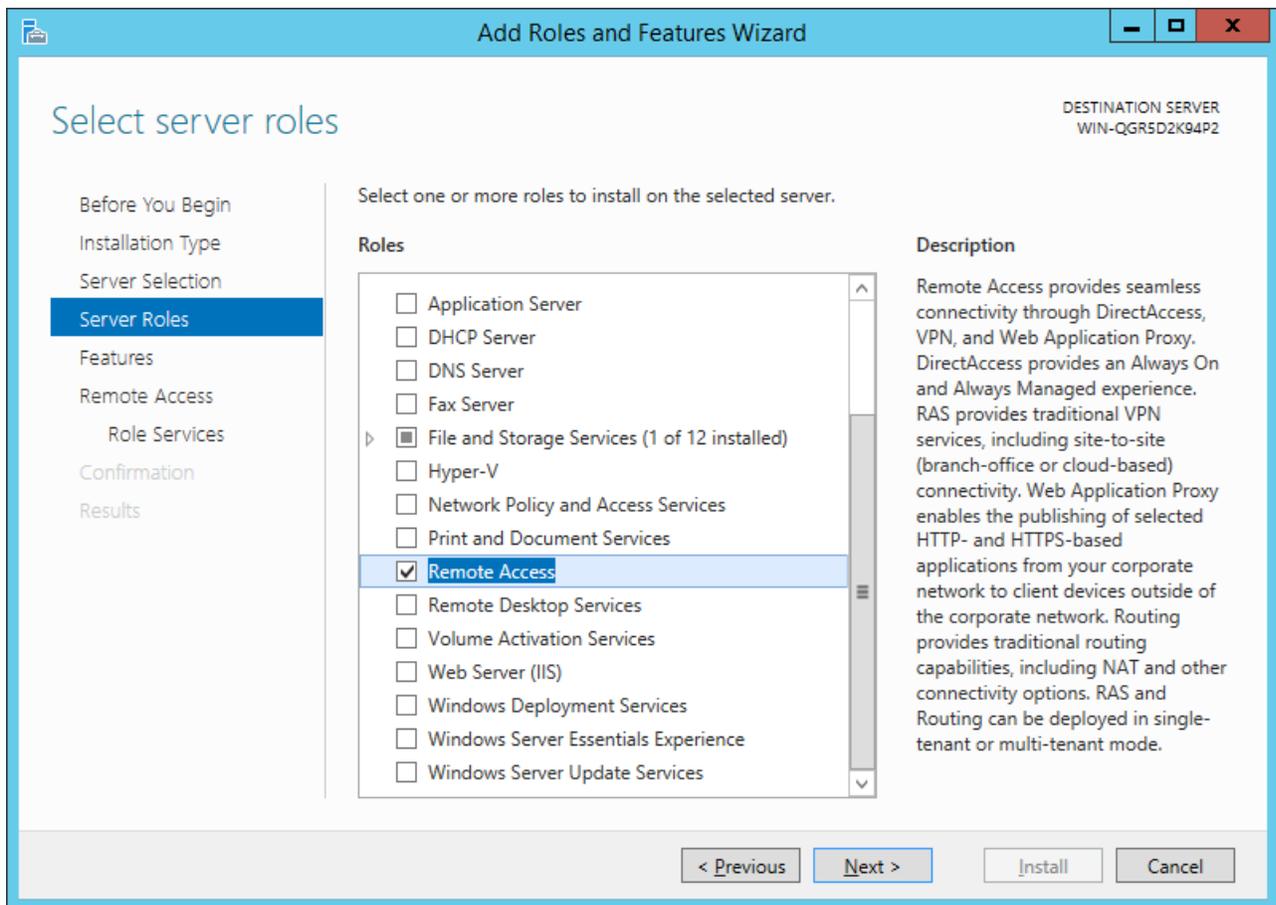
## [How to Install VPN on Windows Server 2012 R2](#)

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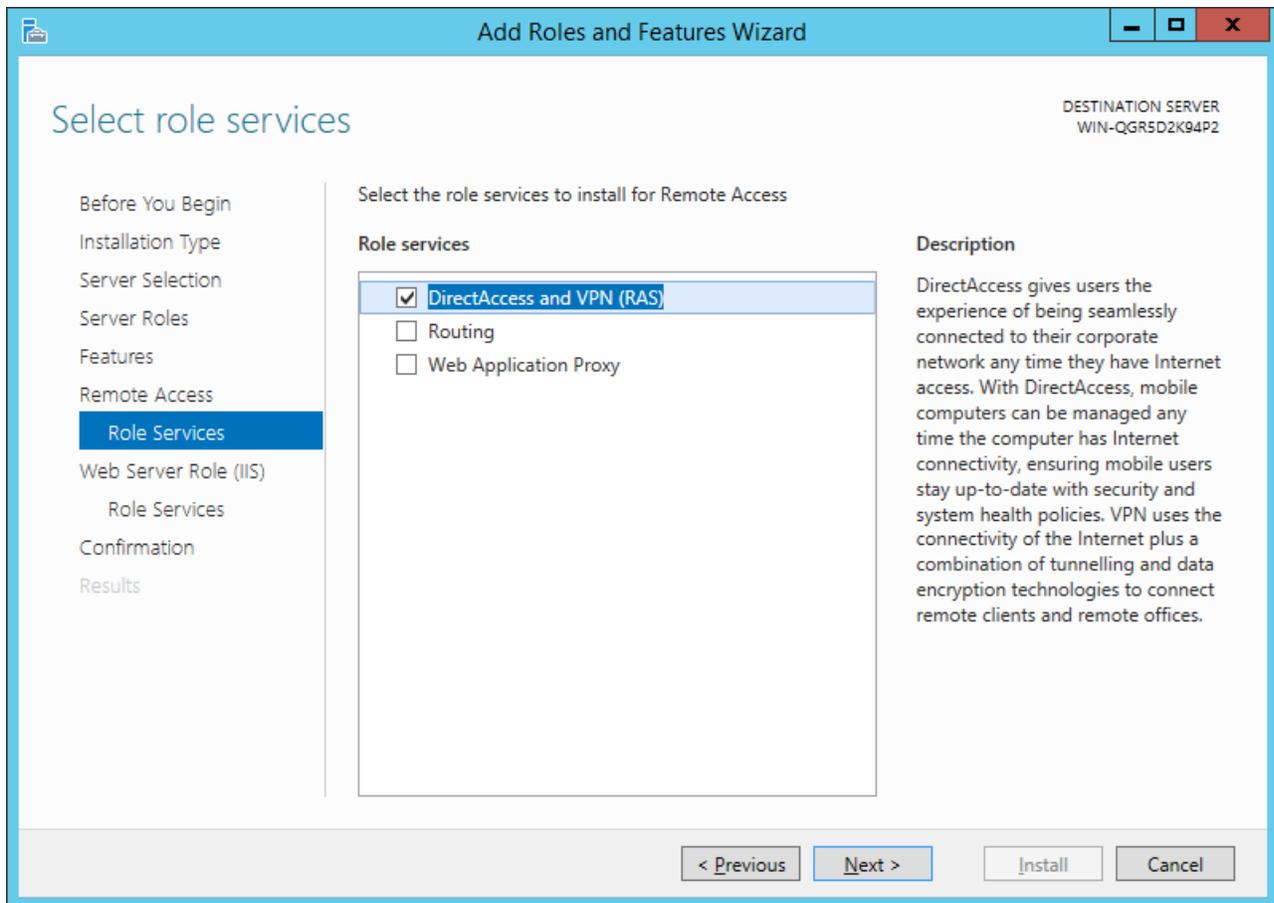
This post shows you how you can install a VPN Server on Windows Server 2012 R2 Step-by-Step. It shows you how you can easily setup a VPN server fro a small environment or for a hosted server scenario.

This is definitely not a guide for an enterprise deployment, if you are thinking about a enterprise deployment you should definitely have a look at Direct Access.

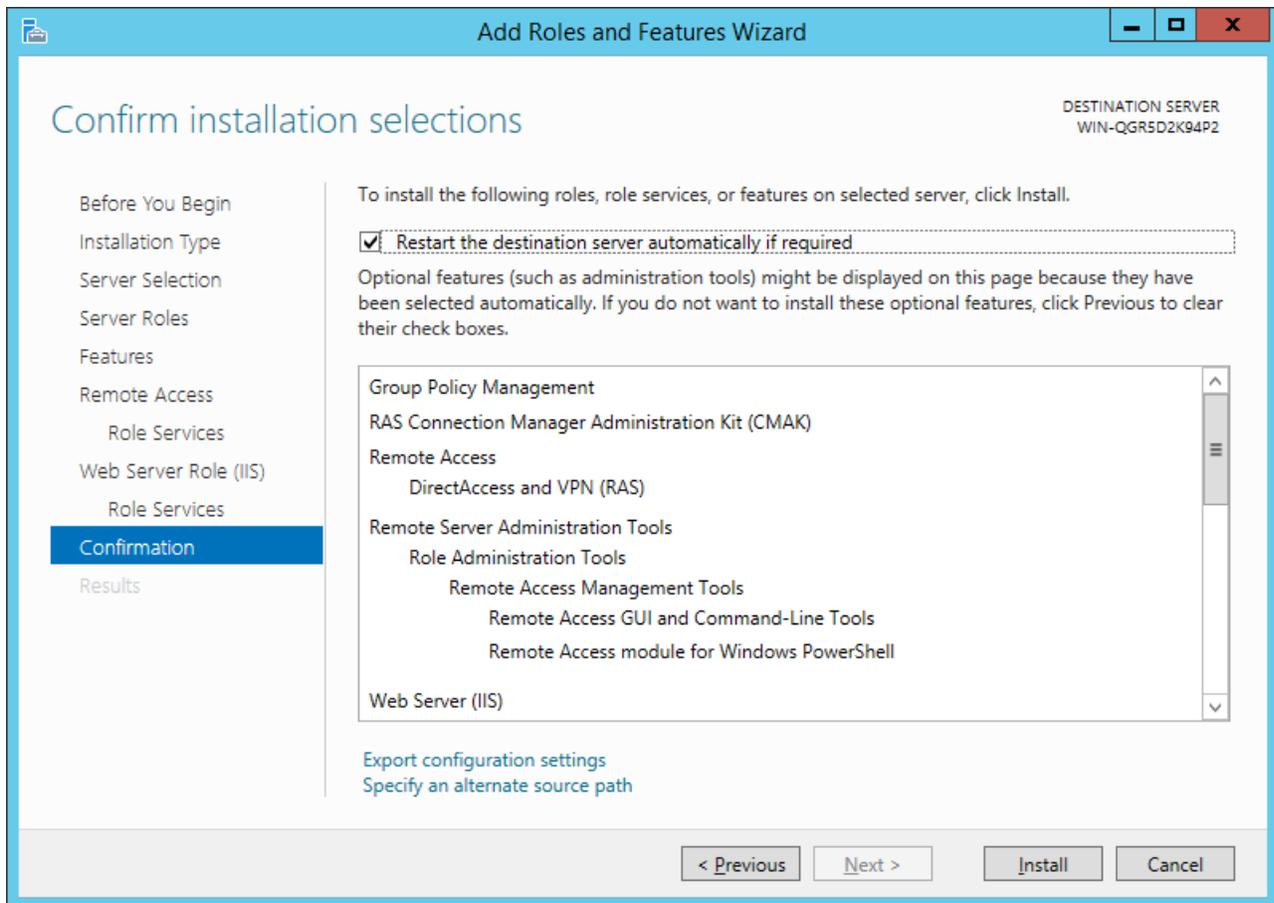
First install the “**Remote Access**” via Server Manager or Windows PowerShell.



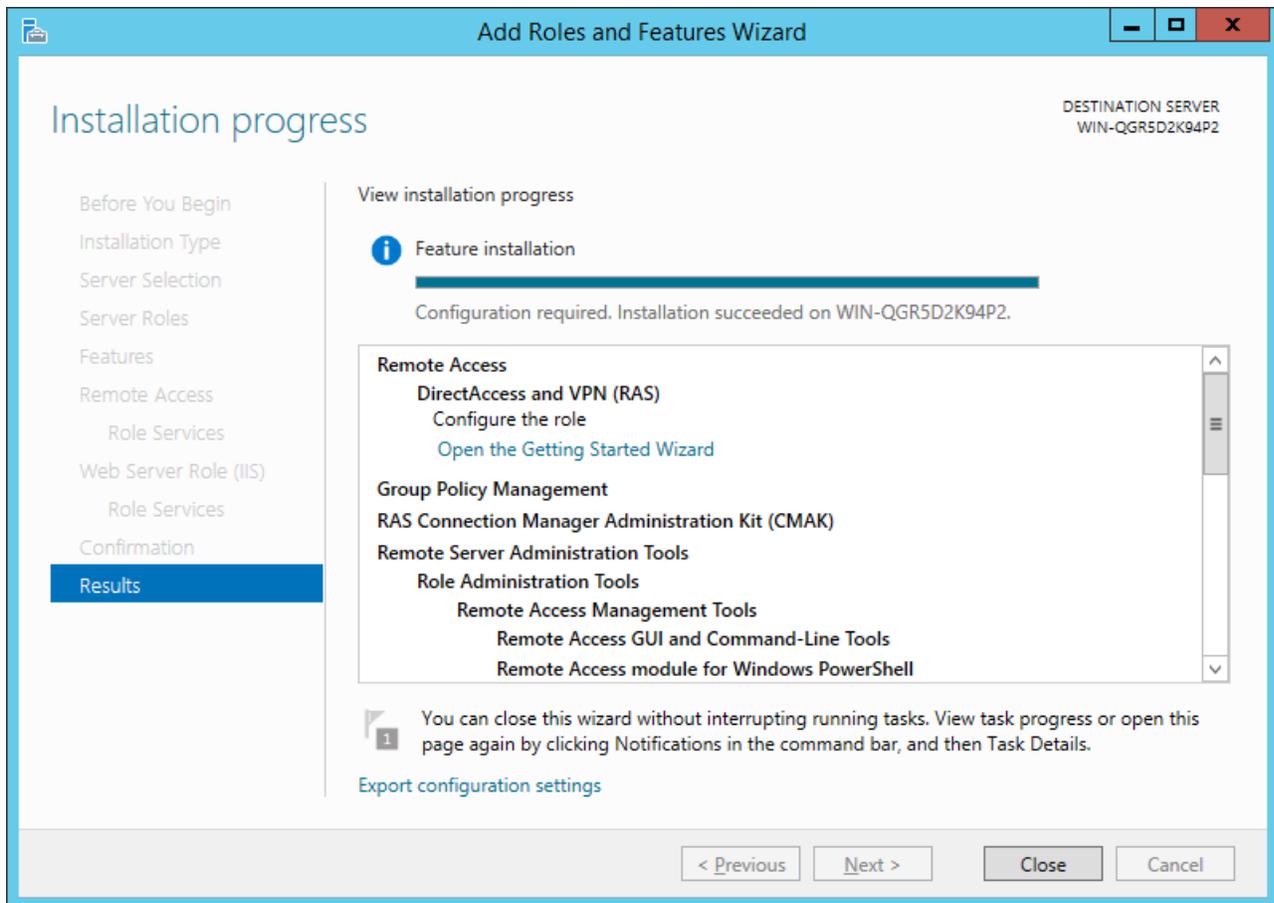
Select the “**DirectAccess and VPN (RAS)**” role services.



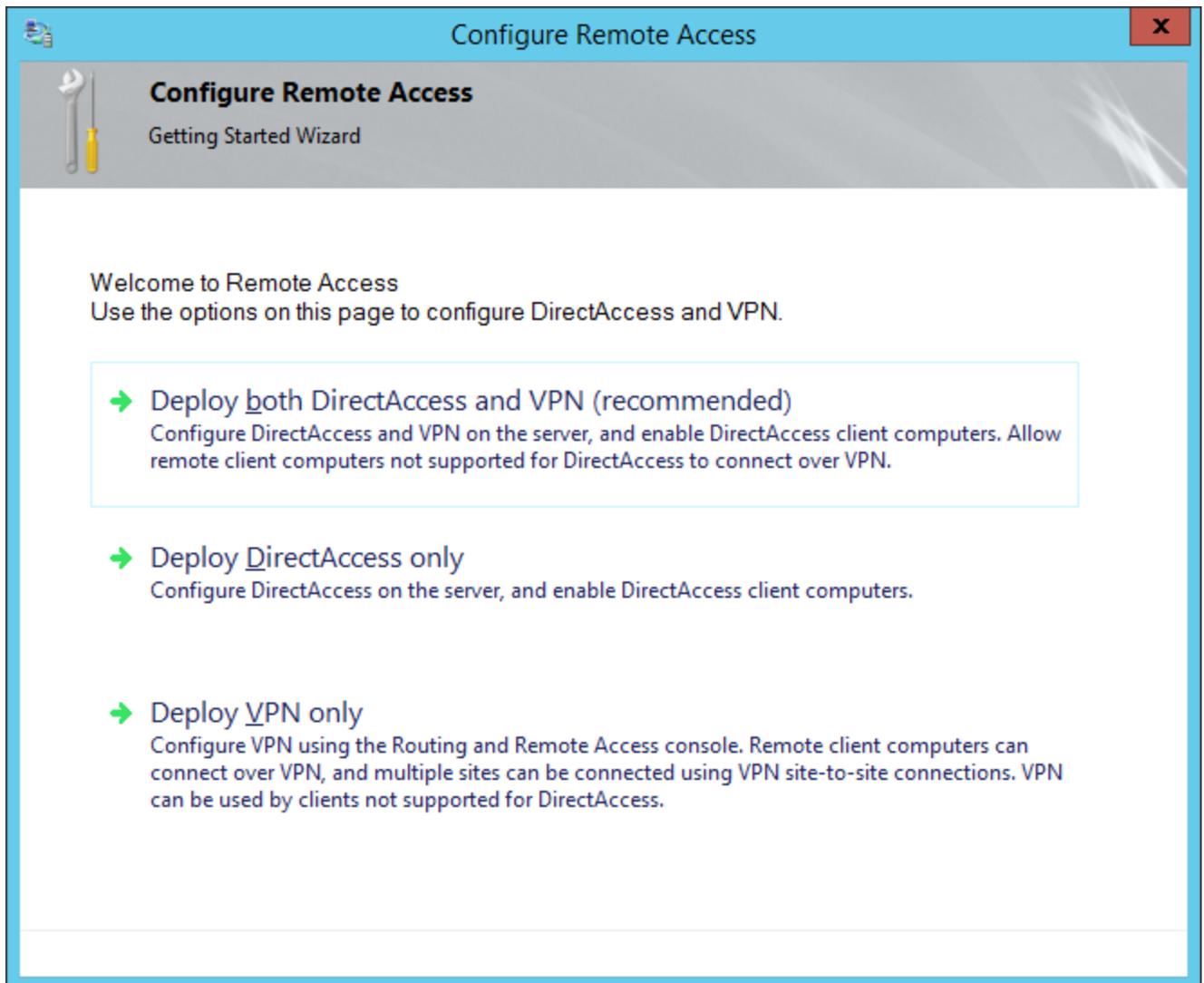
On the next steps just use the default settings. After that you can have a look at the Overview screen and install the role.



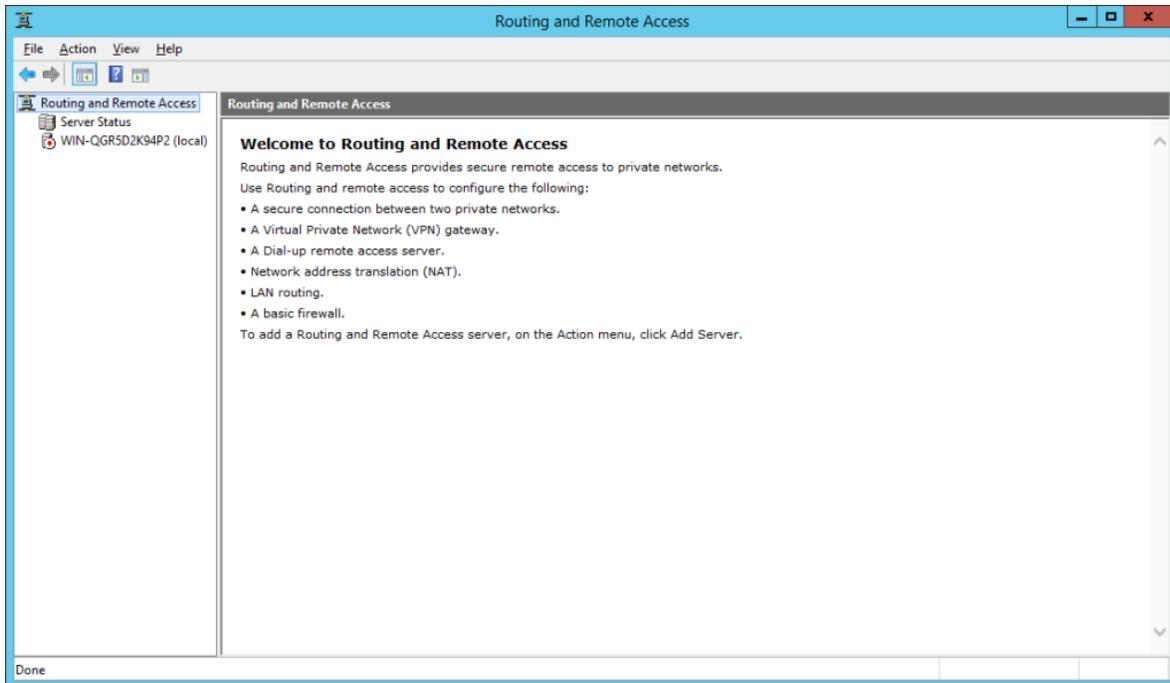
After the features are installed, which can take a while to finish you see the link for the Getting Started Wizard. Click on “**Open the Getting Started Wizard**”.



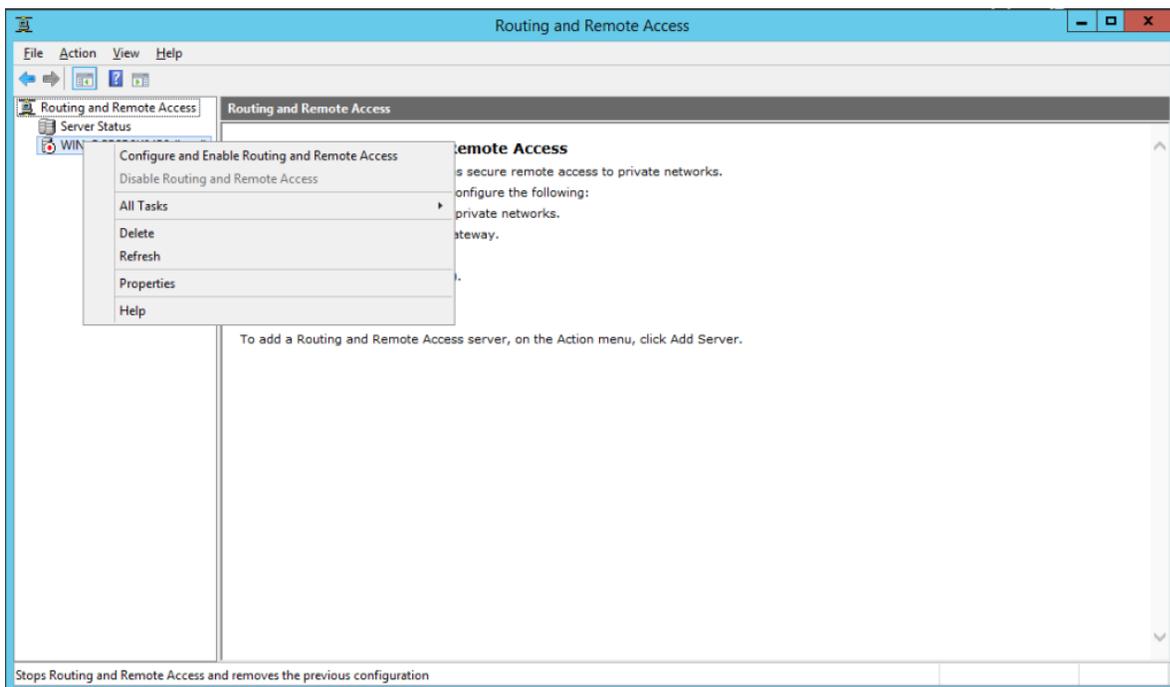
This opens a new wizard which will help you to configure the server. On the first screen select “Deploy VPN only”.



This opens the Routing and Remote Access MMC



Right click on the Server name and click on **“Configure and Enable Routing and Remote Access”**.



On the new wizard select **“Custom configuration”**.

## Routing and Remote Access Server Setup Wizard

### Configuration

You can enable any of the following combinations of services, or you can customize this server.

- Remote access (dial-up or VPN)  
Allow remote clients to connect to this server through either a dial-up connection or a secure virtual private network (VPN) Internet connection.
- Network address translation (NAT)  
Allow internal clients to connect to the Internet using one public IP address.
- Virtual private network (VPN) access and NAT  
Allow remote clients to connect to this server through the Internet and local clients to connect to the Internet using a single public IP address.
- Secure connection between two private networks  
Connect this network to a remote network, such as a branch office.
- Custom configuration  
Select any combination of the features available in Routing and Remote Access.

< Back

Next >

Cancel

Select “VPN Access“.

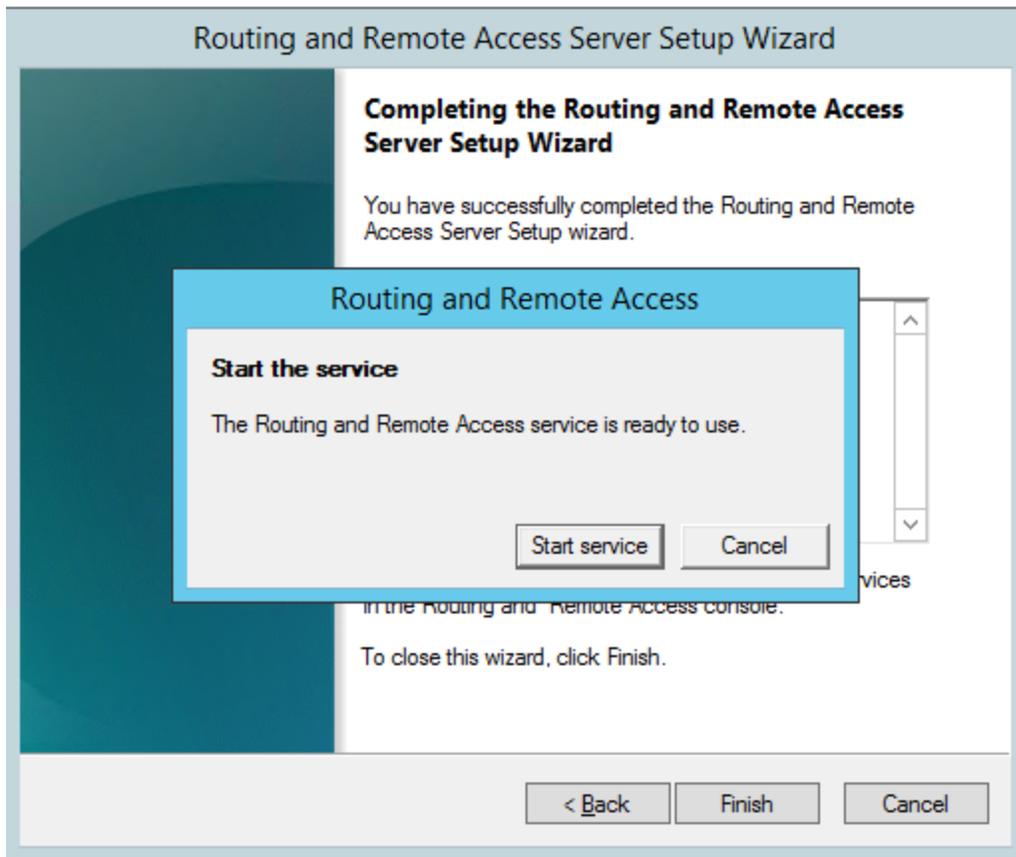
**Routing and Remote Access Server Setup Wizard**

**Custom Configuration**  
When this wizard closes, you can configure the selected services in the Routing and Remote Access console.

Select the services that you want to enable on this server.

- V**PN access
- D**ial-up access
- D**emand-dial connections ( used for branch office routing )
- N**AT
- L**AN routing

After you have click finish you can now start the Routing and Remote Access service.



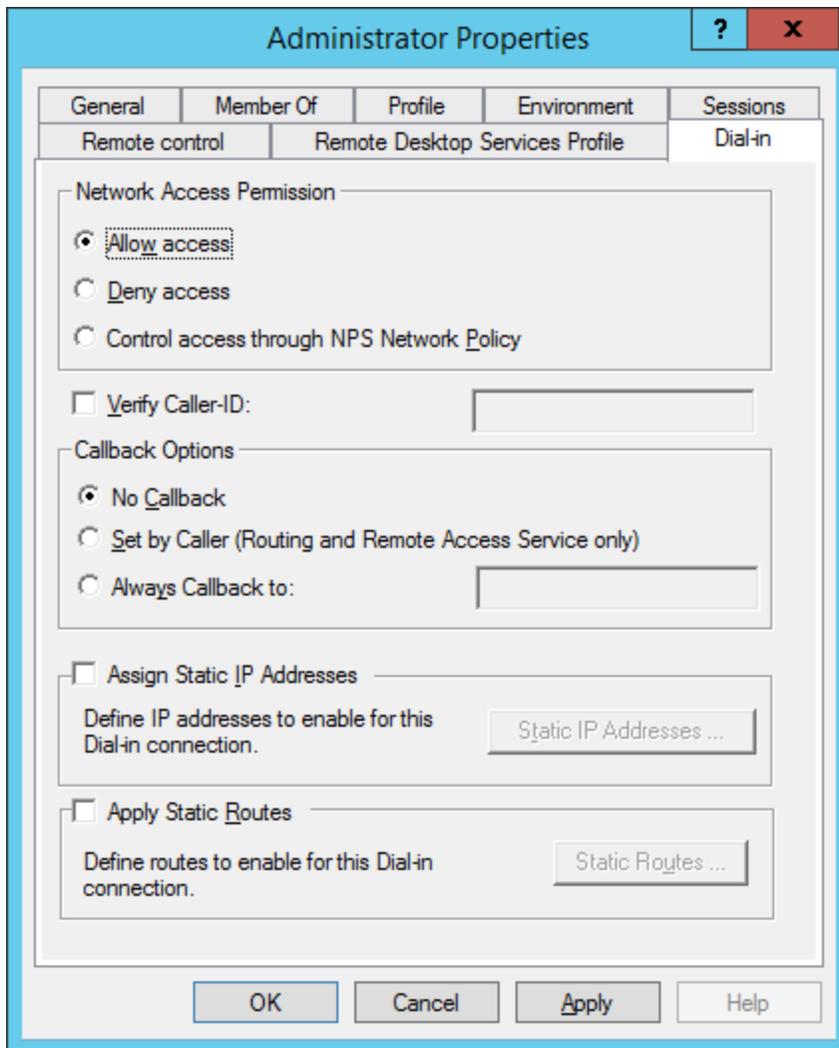
If you have an other firewall between the internet and your Windows Server you have to open the following Firewall port sand forward them to your Windows Server:

For PPTP: 1723 TCP and Protocol 47 GRE (also known as PPTP Pass-through)

For L2TP over IPSEC: 1701 TCP and 500 UDP

For SSTP: 443 TCP

After the installation Users have to be enabled for Remote Access to connect to your VPN Server. On a standalone server this can be done in the Computer Management MMC, in a domain environment this can be done in the user properties of an Active Directory user.



If you don't have a DHCP Server in your environment you have to add a static IP address pool. This is often needed if you have a single server hosted at a service provider. In the properties of your VPN server you can click on the IPv4 tab and enable and configure the "Static address pool".

