



WhiteStar HyperSpace

Quantum VPN Solution

Configuring Routing on Windows Server

Configuring a Windows Server for HyperSpace

Installing the Routing Software

On your Windows Server machine, launch the Windows Server Manager

Click on **Dashboard** in the left hand column

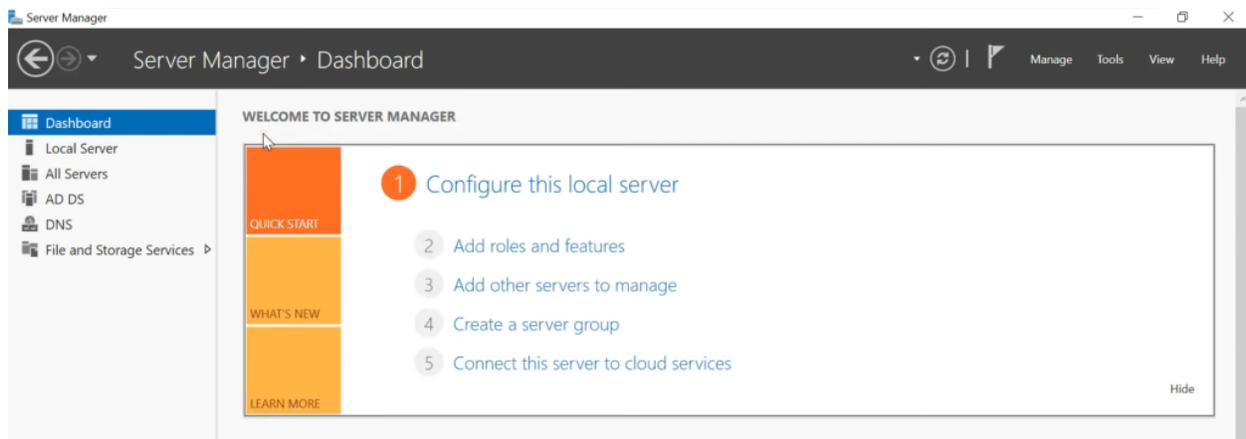


Figure 1

Click on “**Add Roles and Features**” (#2) in Figure 1, the following Wizard is presented to the user

Before you begin

DESTINATION SERVER
WIN-S2BUMQAAC36

Before You Begin

[Installation Type](#)[Server Selection](#)[Server Roles](#)[Features](#)[Confirmation](#)[Results](#)

This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.

To remove roles, role services, or features:
[Start the Remove Roles and Features Wizard](#)

Before you continue, verify that the following tasks have been completed:

- The Administrator account has a strong password
- Network settings, such as static IP addresses, are configured
- The most current security updates from Windows Update are installed

If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.

To continue, click Next.

Skip this page by default

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Install

Cancel

Figure 2

Click “**Next**” to begin.

Click on “**Role-based or feature-based installation**” and then click “**Next**”.

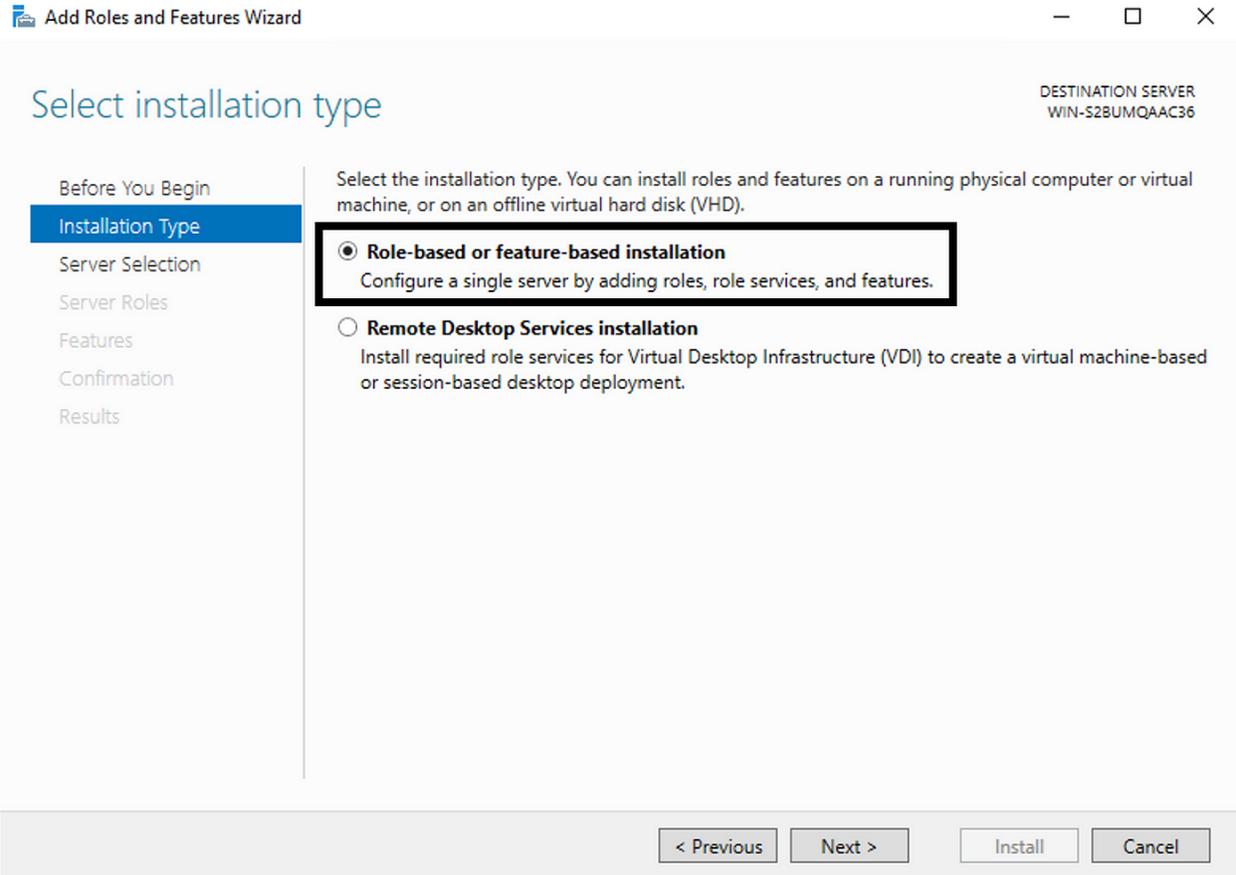


Figure 3

On “**Select destination server**”, click “**Select a server from the server pool**” and select the server you are currently running on in the list presented, then click “**Next**”.

Select destination server

DESTINATION SERVER
WIN-S2BUMQAAC36

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select a server or a virtual hard disk on which to install roles and features.

 Select a server from the server pool Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
WIN-S2BUMQAAC36	10.0.2.4,192.16...	Microsoft Windows Server 2022 Standard

1 Computer(s) found

This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

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Figure 4

On “**Select server roles**” select “**Remote Access**” from the list of Roles and click “**Next**”.

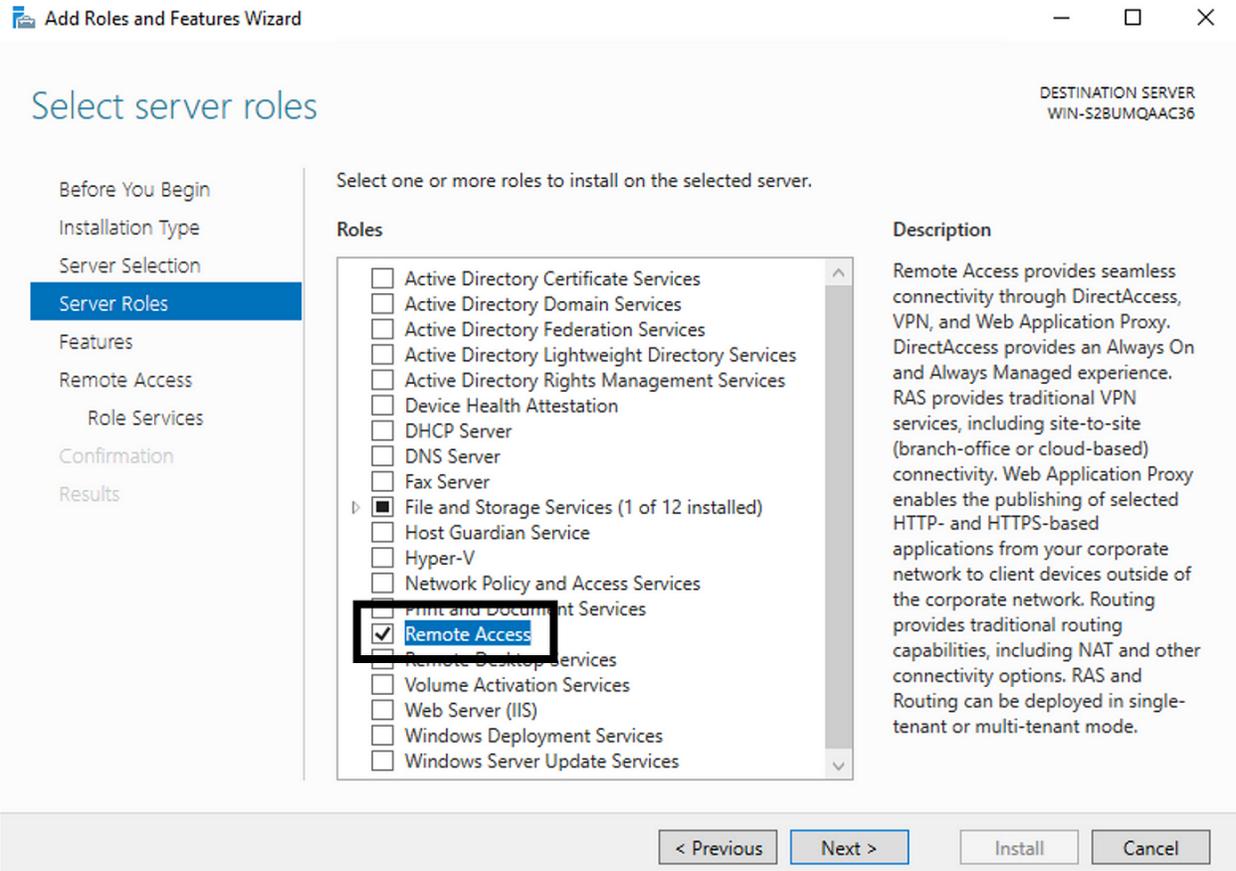


Figure 5

On “**Select Features**” for that Role, take the default settings that are selected by Microsoft and click “**Next**”.

Select features

DESTINATION SERVER
WIN-S2BUMQAAC36

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Remote Access

Role Services

Confirmation

Results

Select one or more features to install on the selected server.

Features

- .NET Framework 3.5 Features
- .NET Framework 4.8 Features (2 of 7 installed)
- Background Intelligent Transfer Service (BITS)
- BitLocker Drive Encryption
- BitLocker Network Unlock
- BranchCache
- Client for NFS
- Containers
- Data Center Bridging
- Direct Play
- Enhanced Storage
- Failover Clustering
- Group Policy Management
- Host Guardian Hyper-V Support
- I/O Quality of Service
- IIS Hostable Web Core
- Internet Printing Client
- IP Address Management (IPAM) Server
- LPR Port Monitor

Description

Provides the services that are needed to manage and invoke predictive analytics capabilities that analyze Windows System data.

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Figure 6

On “**Remote Access**” click “Next” to get to “**Role Services**”.

Remote Access

DESTINATION SERVER
WIN-S2BUMQAAC36[Before You Begin](#)[Installation Type](#)[Server Selection](#)[Server Roles](#)[Features](#)**Remote Access**[Role Services](#)[Confirmation](#)[Results](#)

Remote Access integrates DirectAccess, VPN, and Web Application Proxy in a single management console.

Deploy DirectAccess to allow managed domain-joined computers to connect to the internal corporate network as DirectAccess clients. Connectivity is seamless and transparent, and is available any time client computers are located on the Internet. DirectAccess administrators can remotely manage clients, ensuring that mobile computers are kept up-to-date with security updates and corporate compliance requirements.

Deploy VPN to allow client computers running operating systems not supported by DirectAccess, or configured in a workgroup, to remotely access corporate networks over a VPN connection.

Deploy Web Application Proxy to publish selected HTTP- and HTTPS-based applications from your corporate network to client devices outside of the corporate network. It can use AD FS to ensure that users are authenticated before they gain access to published applications. Web Application Proxy also provides proxy functionality for your AD FS servers.

Configure RRAS routing features using the Routing and Remote Access console.

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Figure 7

Click “**Routing**”. “**Direct Access VPN (RAS)**” will also get selected by the wizard and can’t be de-selected. Click on “**Next**”.

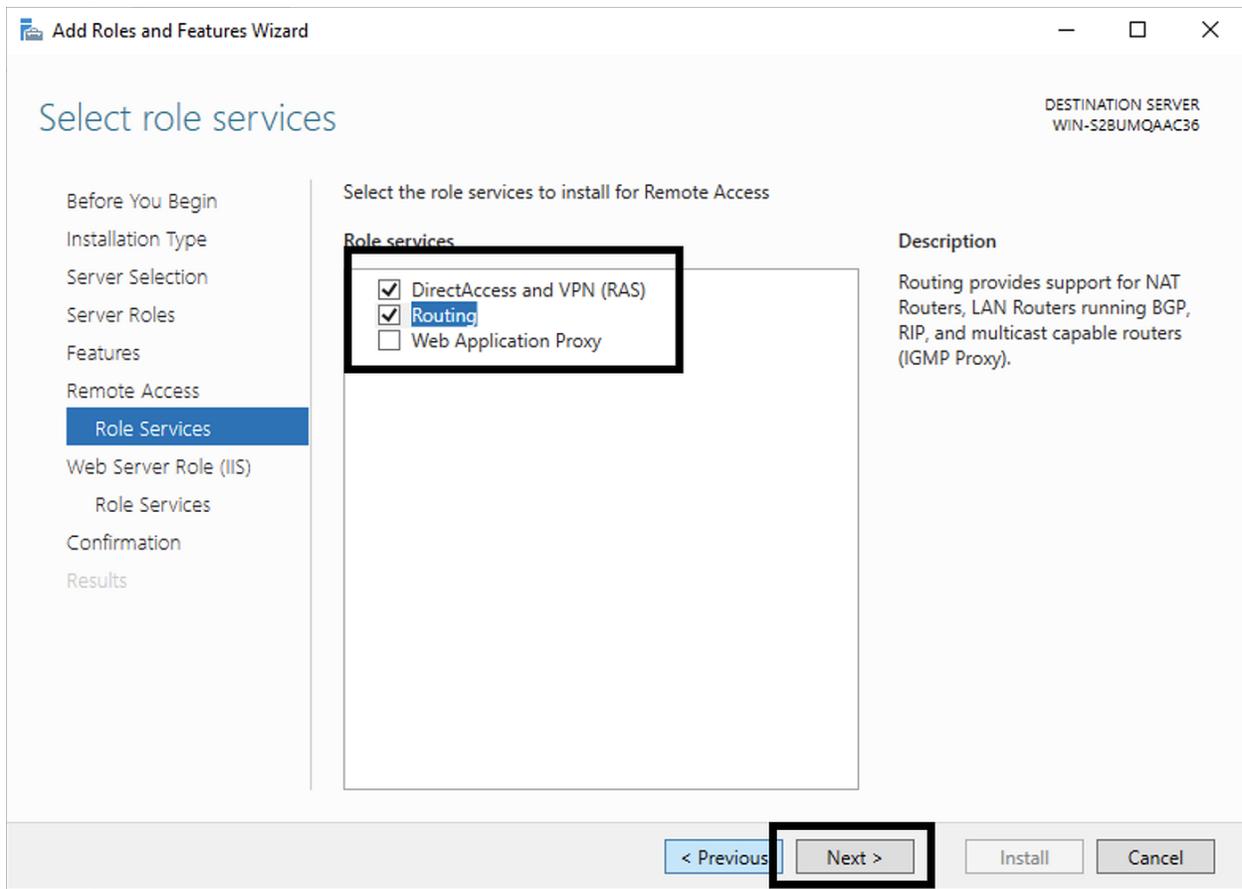


Figure 8

A Wizard will pop up. Click on ***“Include Management Tools”*** and then click ***“Add Features”***

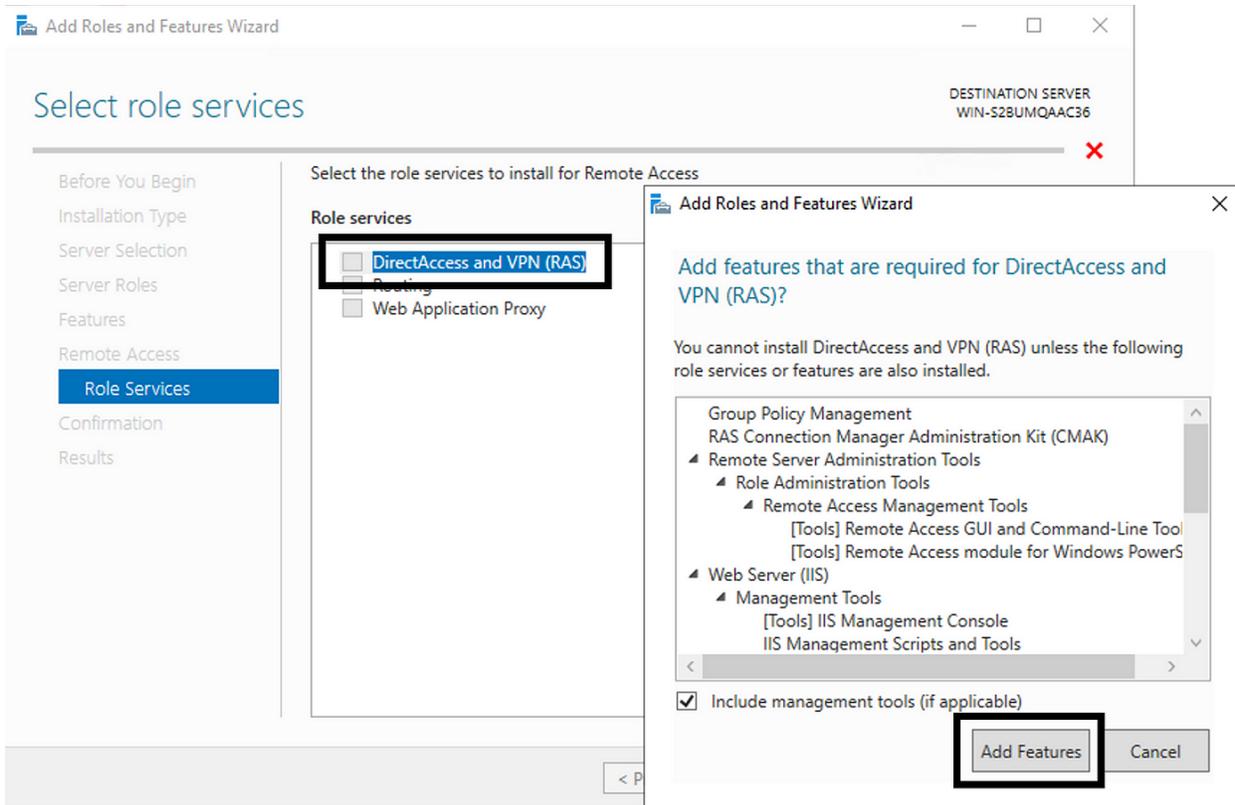


Figure 9

On **“Web Server Role”** click **“Next”**.

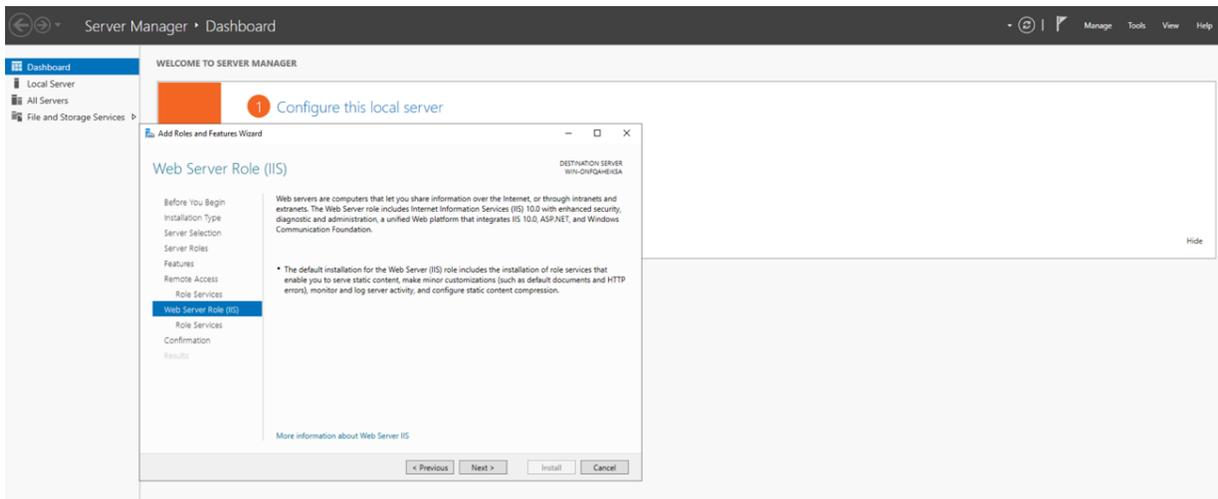


Figure 10

Keep the default Role Services and click **“Next”**.

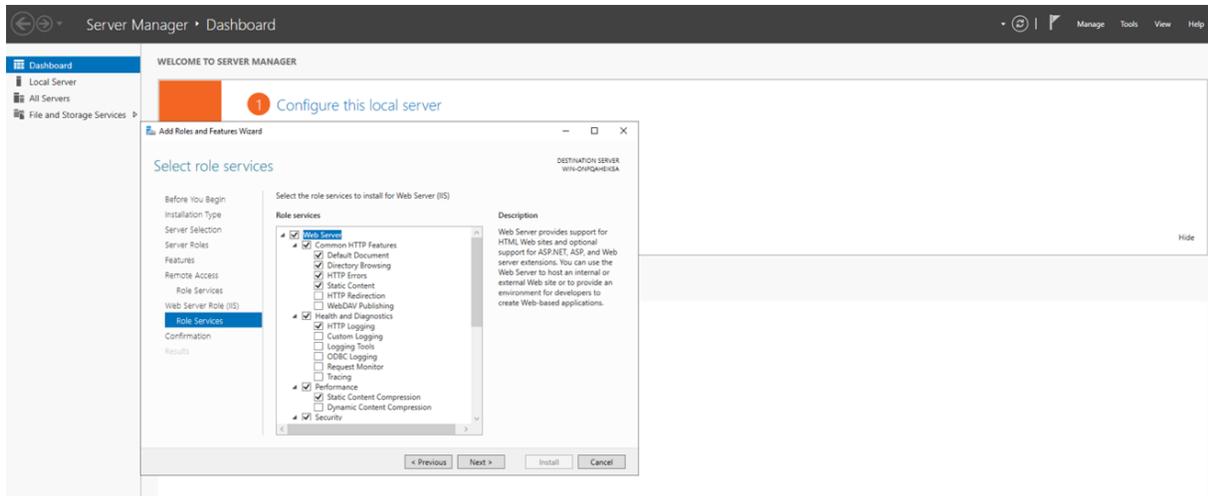


Figure 11

Click **“Install”**. A **“Starting installation”** progress bar will appear at the top. Wait for it to complete.

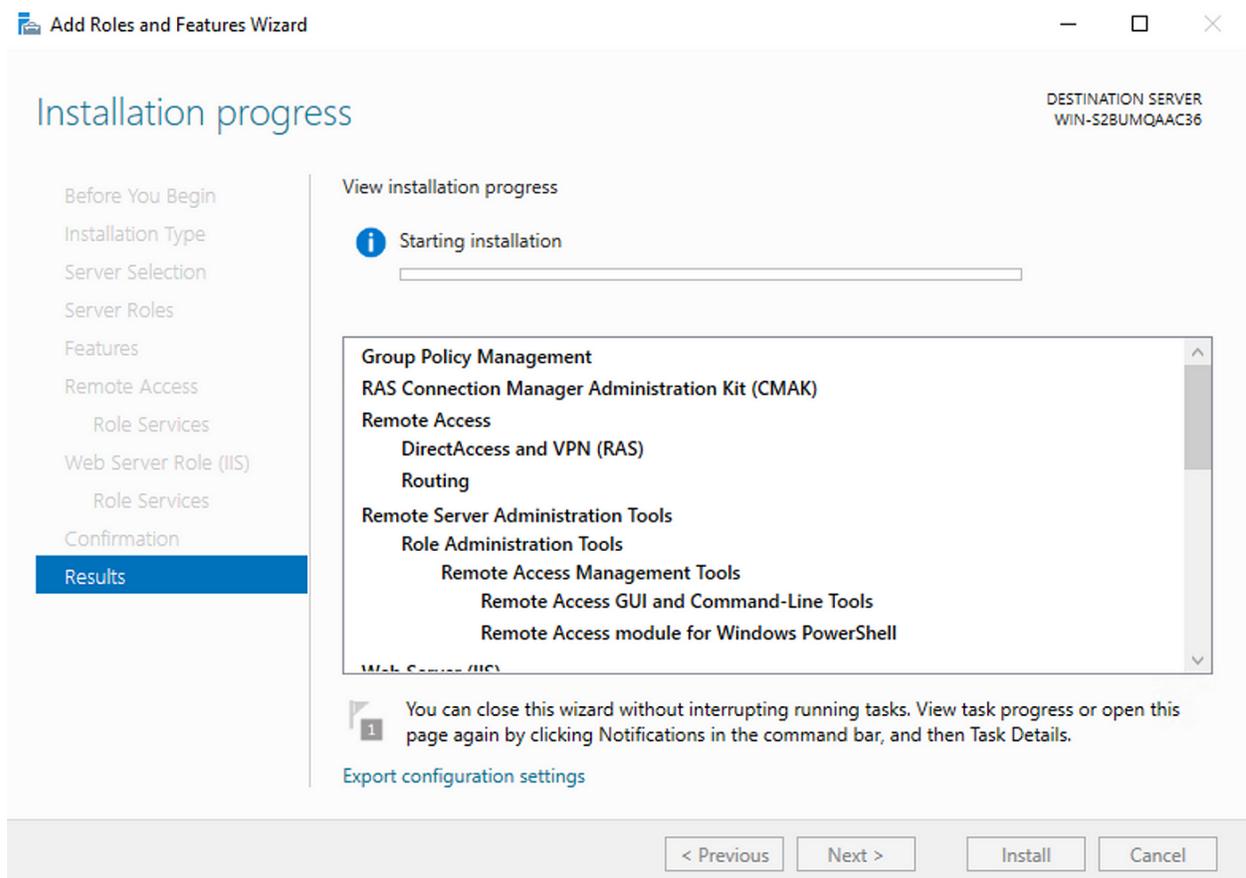


Figure 12

After the progress bar completes, click **“Close”**.

Configure the Routing Software

From the Server Manager Dashboard, Go to the top menu bar and click “**Tools**” in the upper right-hand corner to configure the router.

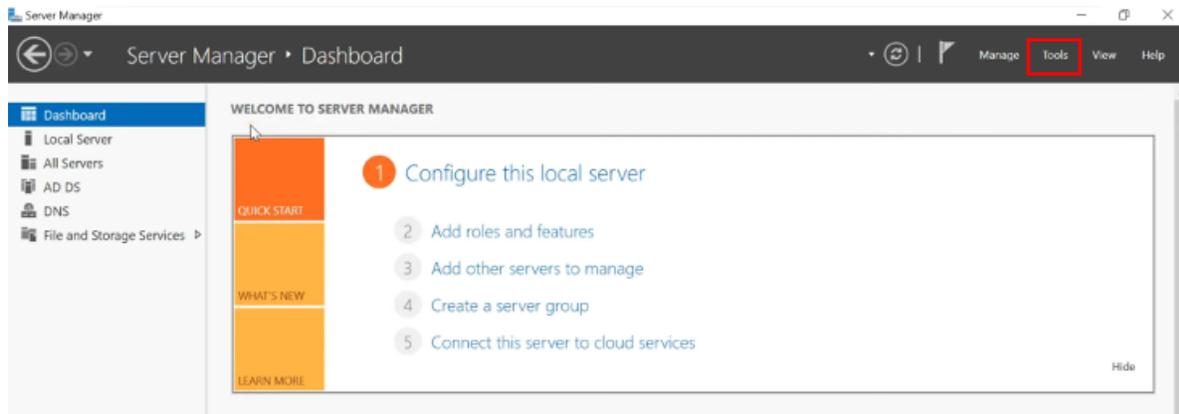


Figure 13

Click “**Routing and Remote Access**”

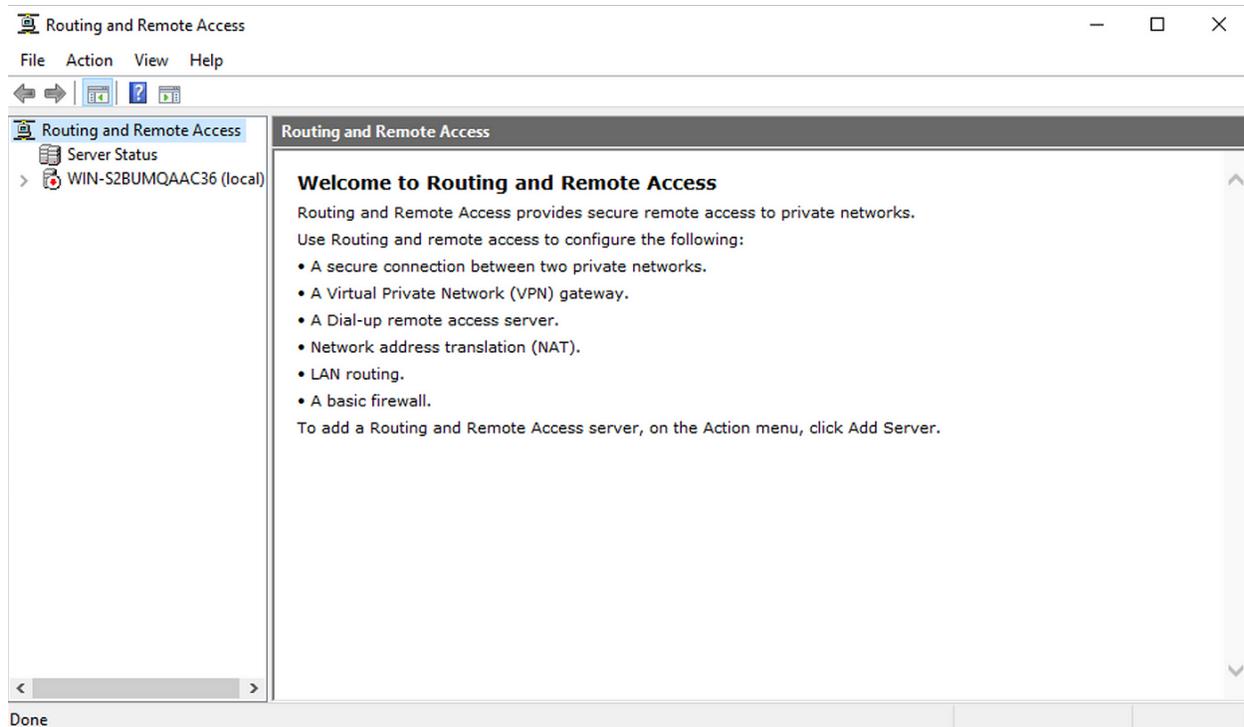


Figure 14

In the left hand column, select the current server and then **Right click** on the Server Name and select “**Configure and Enable routing and Remote Access**” from the drop down menu.

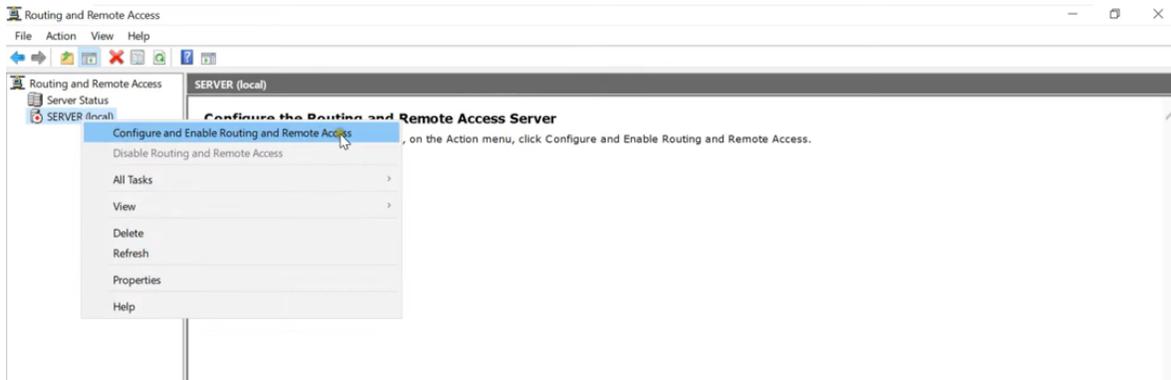


Figure 15

Click “**Next**” on the first screen.

Select “**Custom Configuration**” and then click “**Next**”.

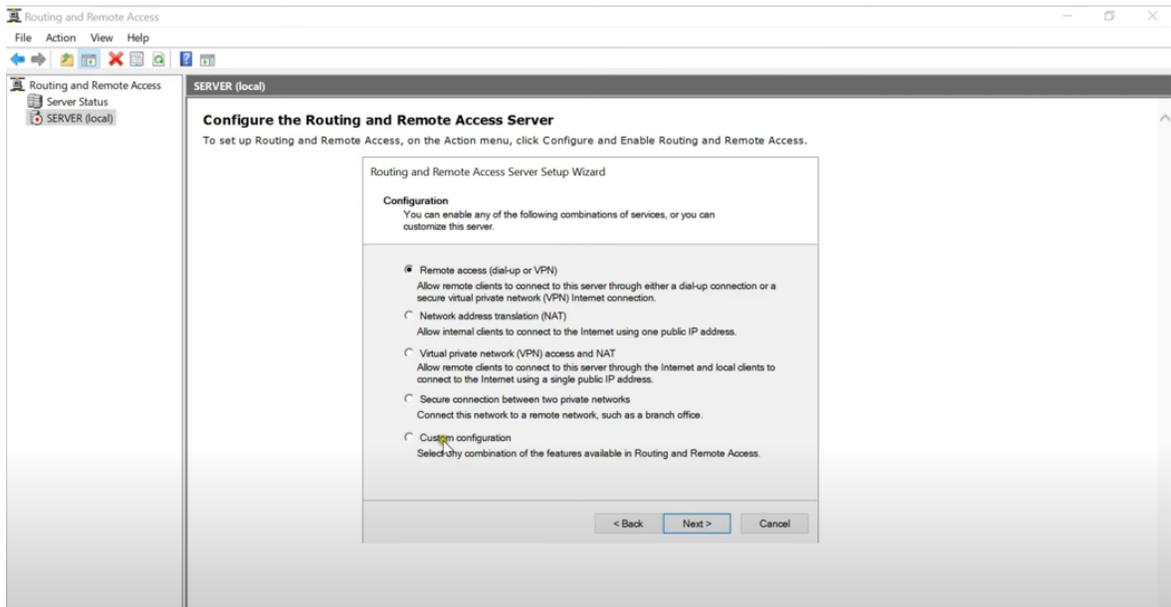


Figure 16

Select “**LAN Routing**” and click “**Next**”.

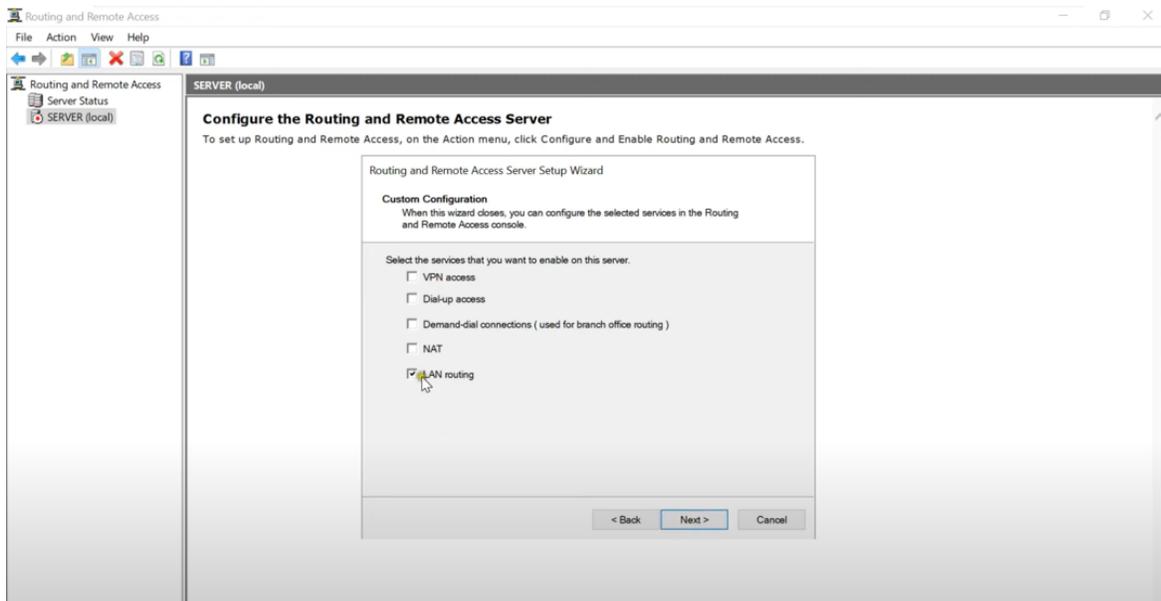


Figure 17

Finally click ***Finish***.

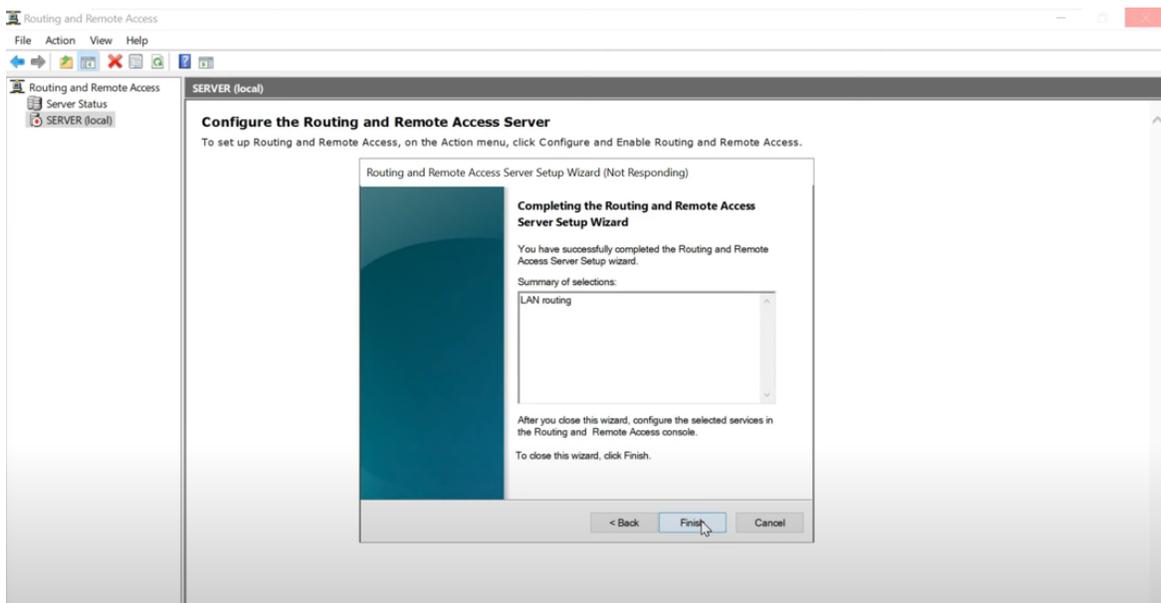


Figure 18

If you see a warning message, click ***OK*** as this Server is *not* being configured to provide VPN service, and this warning is not applicable.

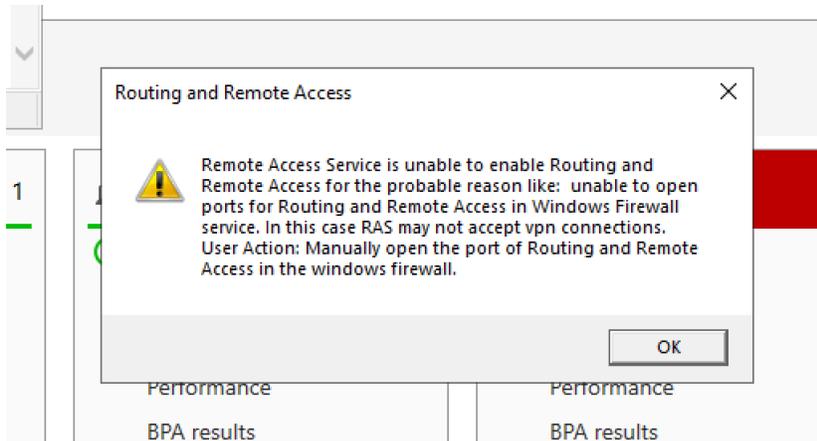


Figure 19

When prompted, Click **“Start service”** to start the service.

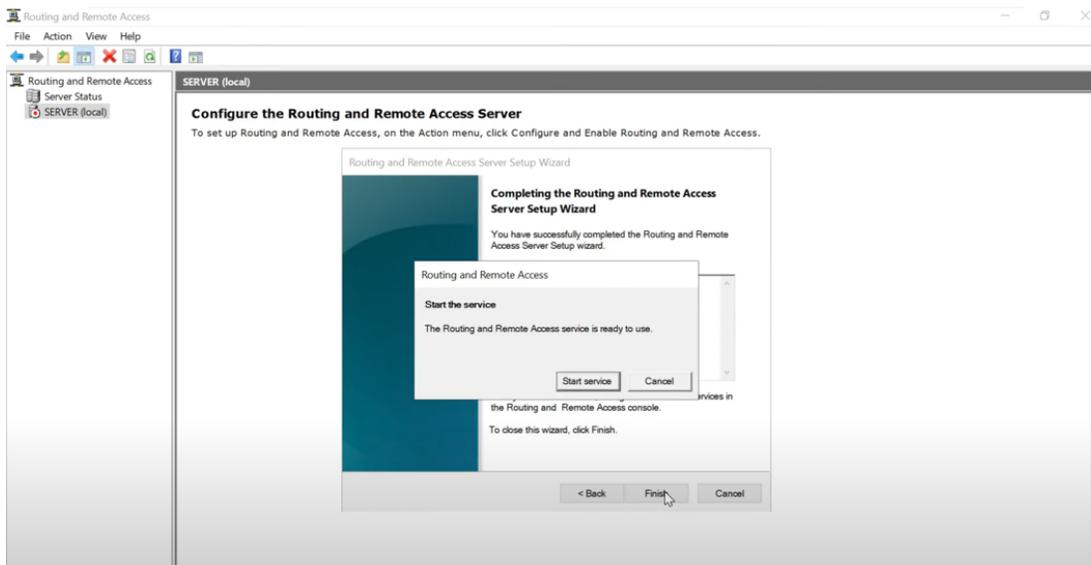


Figure 20

Routing is now installed and configured.