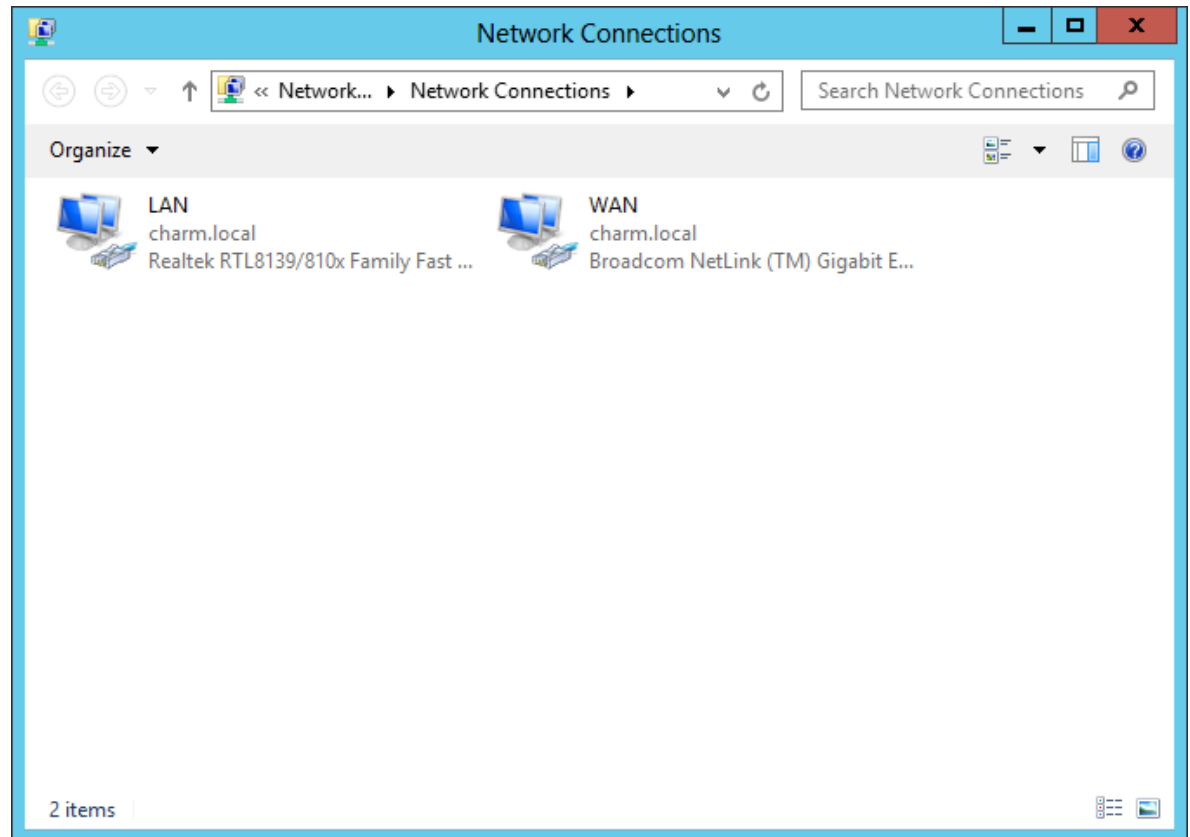


Add DHCP Role to Windows 2012 Server

July 25, 2013

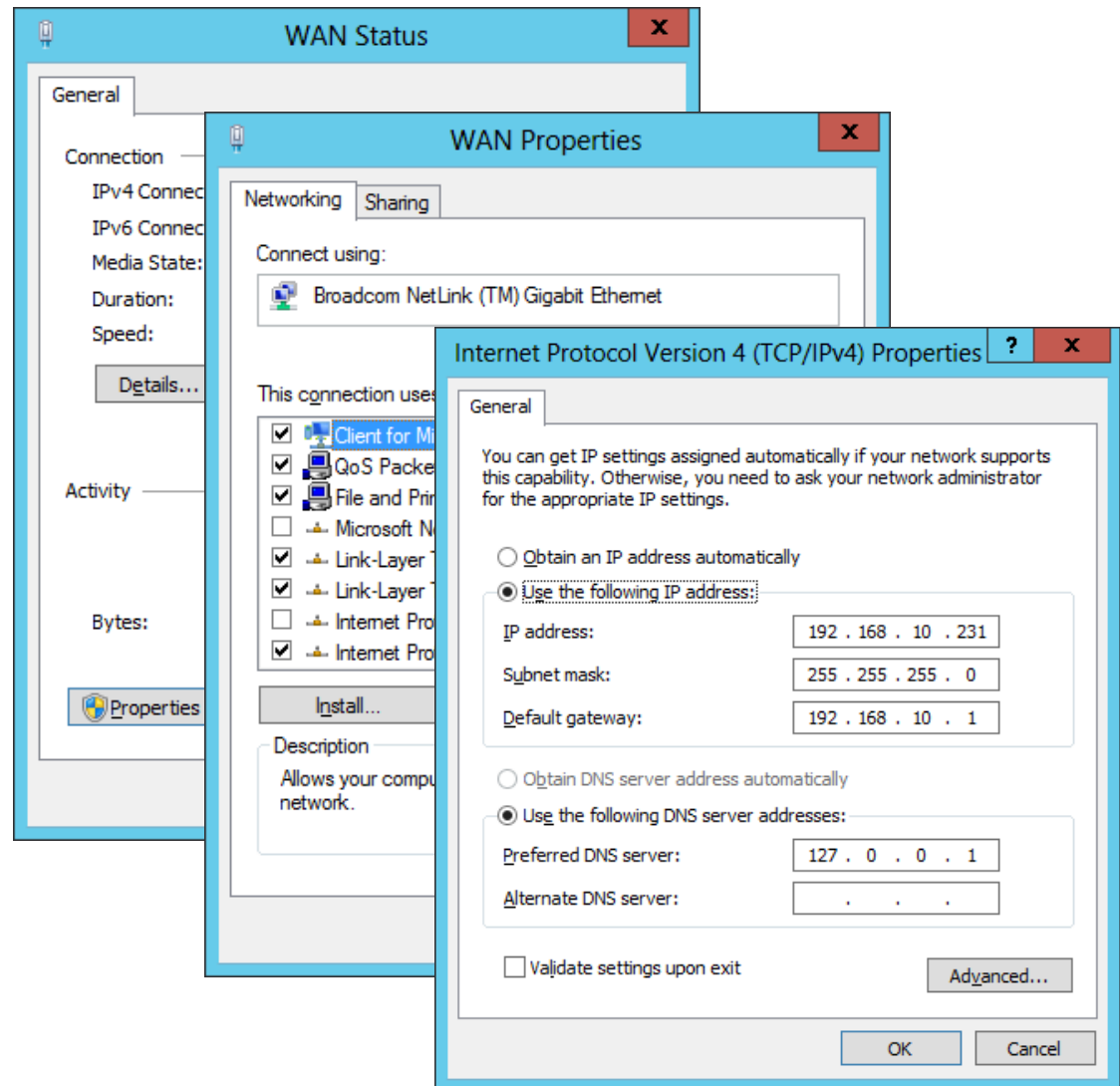
Wide and Local Area Network Connections

Before we add and configure the Dynamic Host Configuration Service on our server, we need to check that our two Network Interface Cards (NICs) are functioning. We open the Network Connections window and we see the external and internal NICs.



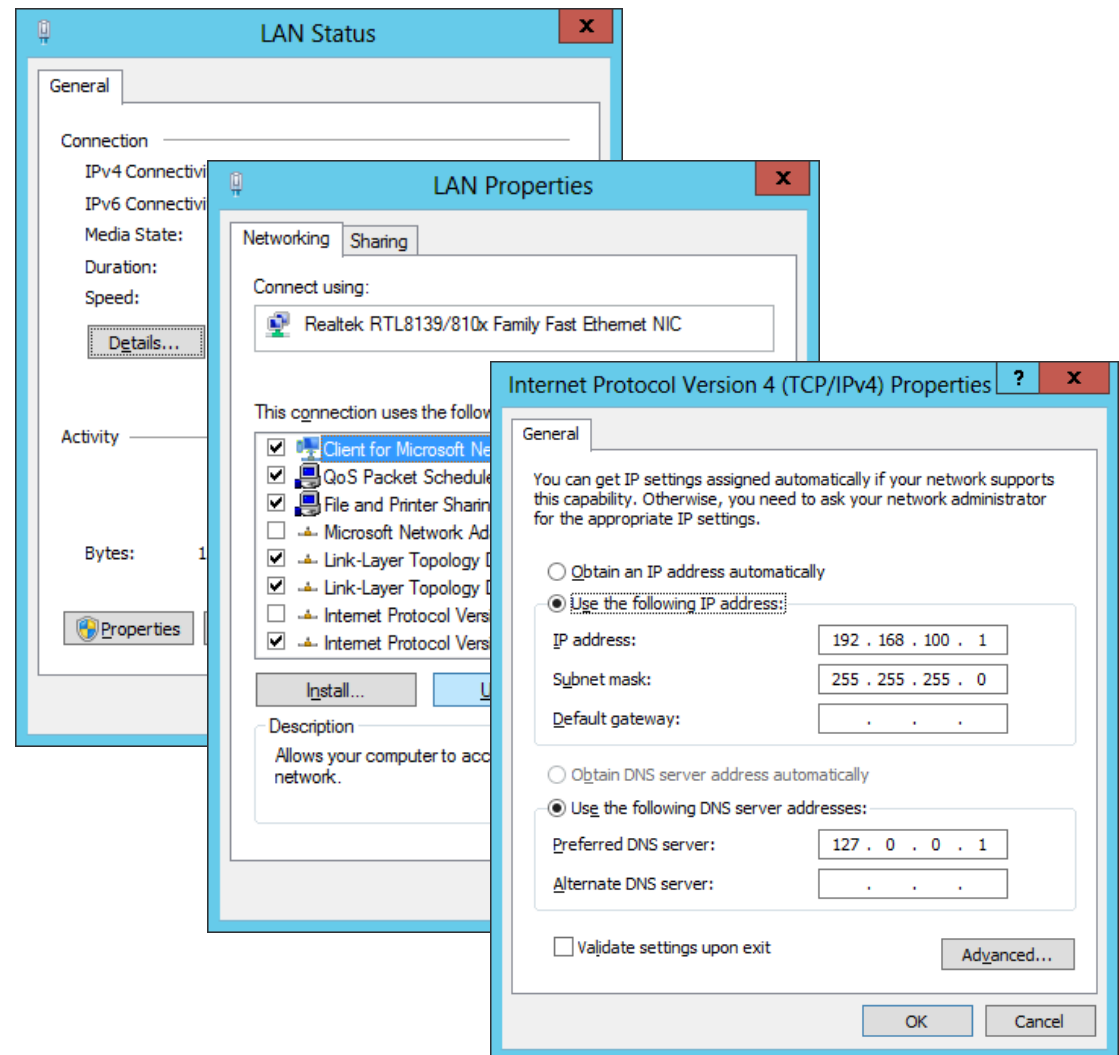
External Network Interface Card Setup

We open the external NIC status window and we choose the Properties button. The external NIC properties window opens and we uncheck the IPv6 checkbox since we are only using IPv4 settings. We double click on the IPv4 TCP/IP protocol and that properties window appears. We have an address on the 192.168.10 network and we are pointing at the 192.168.10.1 Domain Controller and DNS server. All settings are correct and we press OK to close the windows.



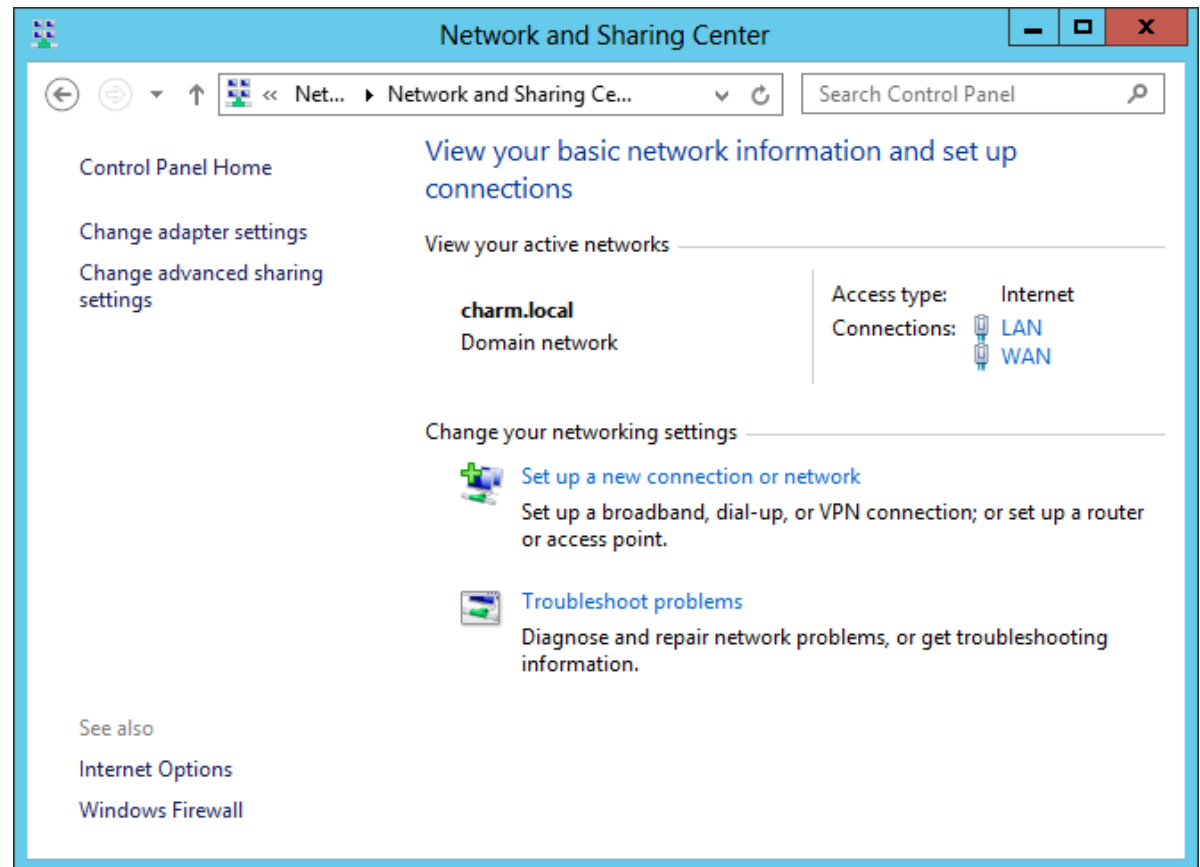
Internal Network Interface Card Setup

We then open the internal NIC status window and again we choose the Properties button. The internal NIC properties window opens and we uncheck the IPv6 checkbox since we are only using IPv4 settings. We double click on the IPv4 TCP/IP protocol and that properties window appears. Our address on the internal NIC is the first IP on the 192.168.100 network. All settings are correct and we press OK to close the windows.



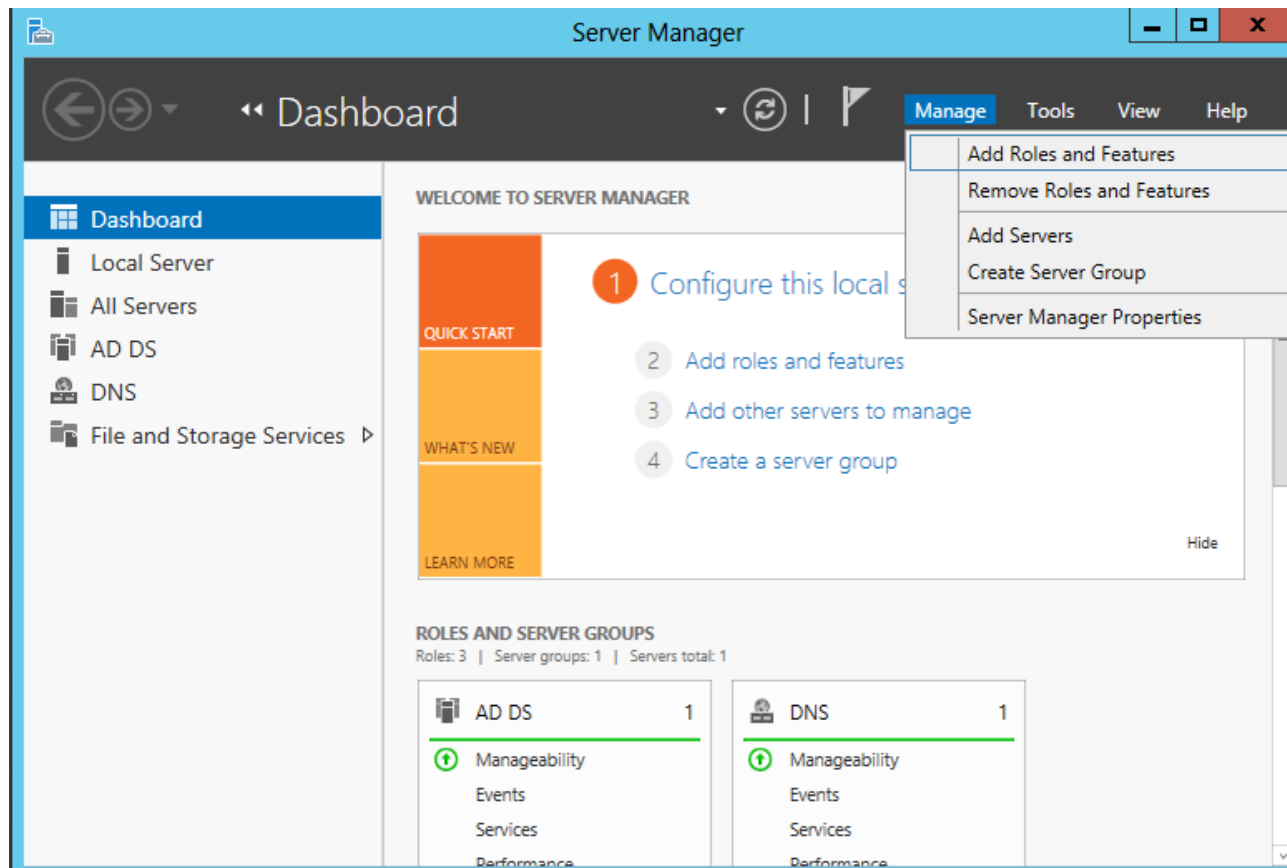
Connecting to the Internet

We check the Network and Sharing Center window and see that our server is connecting to the Internet through the charm.local Domain Controller.



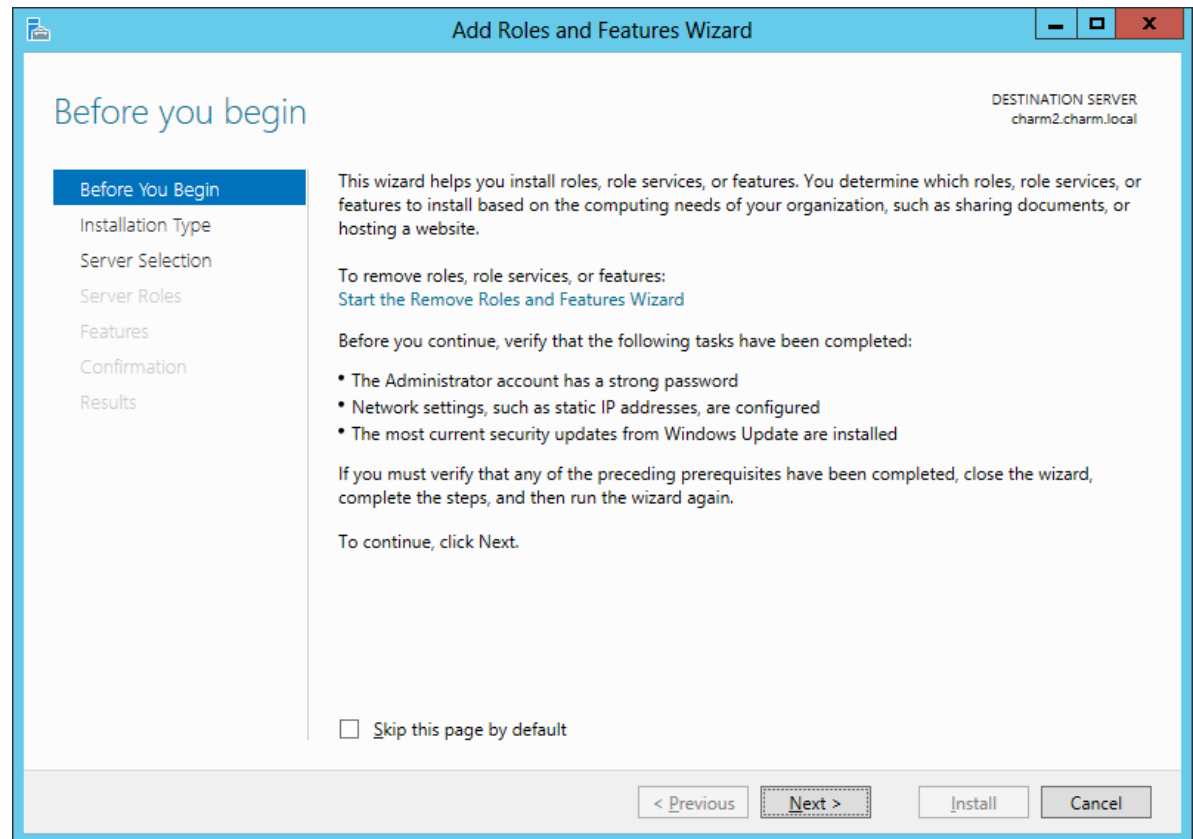
Setup Security Policies

To add a new role such as DHCP on the Windows 2012 Standard Server, we select the Server Manager button from the Task Bar and select Manage from the Dashboard. From the list we choose Add Roles and Features.



Before You Begin

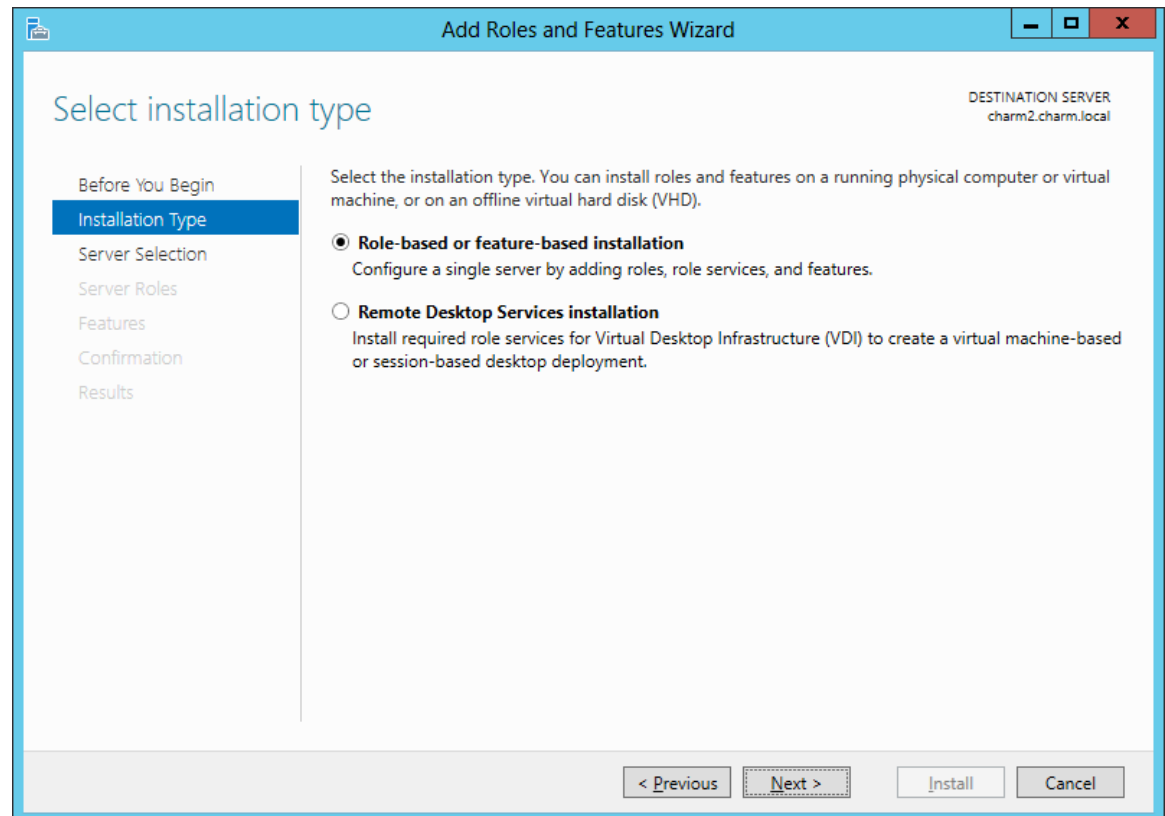
Before we add a role to the Windows 2012 Standard Server, we will want to have a smart password on our administrator account, to configure our network connections with a static IP address and we want to have the most current Service Packs and Windows Updates loaded. If this is done, then we can go ahead and press the Next command button.



Installation Type

Then we opt for the installation type which is either Role based or Remote Desktop Services Installation. For a stand alone server, we will choose the Role based option.

Press the Next button to continue.



Select Destination Server

Now we will select a server from the server pool. This can be a physical or virtual server. We opt to choose a server from the server pool and we highlight our server name from the list.

Press the Next button to advance.

The screenshot shows the 'Add Roles and Features Wizard' window. The title bar reads 'Add Roles and Features Wizard'. The main heading is 'Select destination server'. In the top right corner, it says 'DESTINATION SERVER charm2.charm.local'. On the left, there is a navigation pane with the following items: 'Before You Begin', 'Installation Type', 'Server Selection' (which is highlighted with a blue bar), 'Server Roles', 'Features', 'Confirmation', and 'Results'. The main area contains the instruction 'Select a server or a virtual hard disk on which to install roles and features.' Below this are two radio buttons: 'Select a server from the server pool' (which is selected) and 'Select a virtual hard disk'. Under the 'Server Pool' section, there is a 'Filter:' text box. Below the filter is a table with the following data:

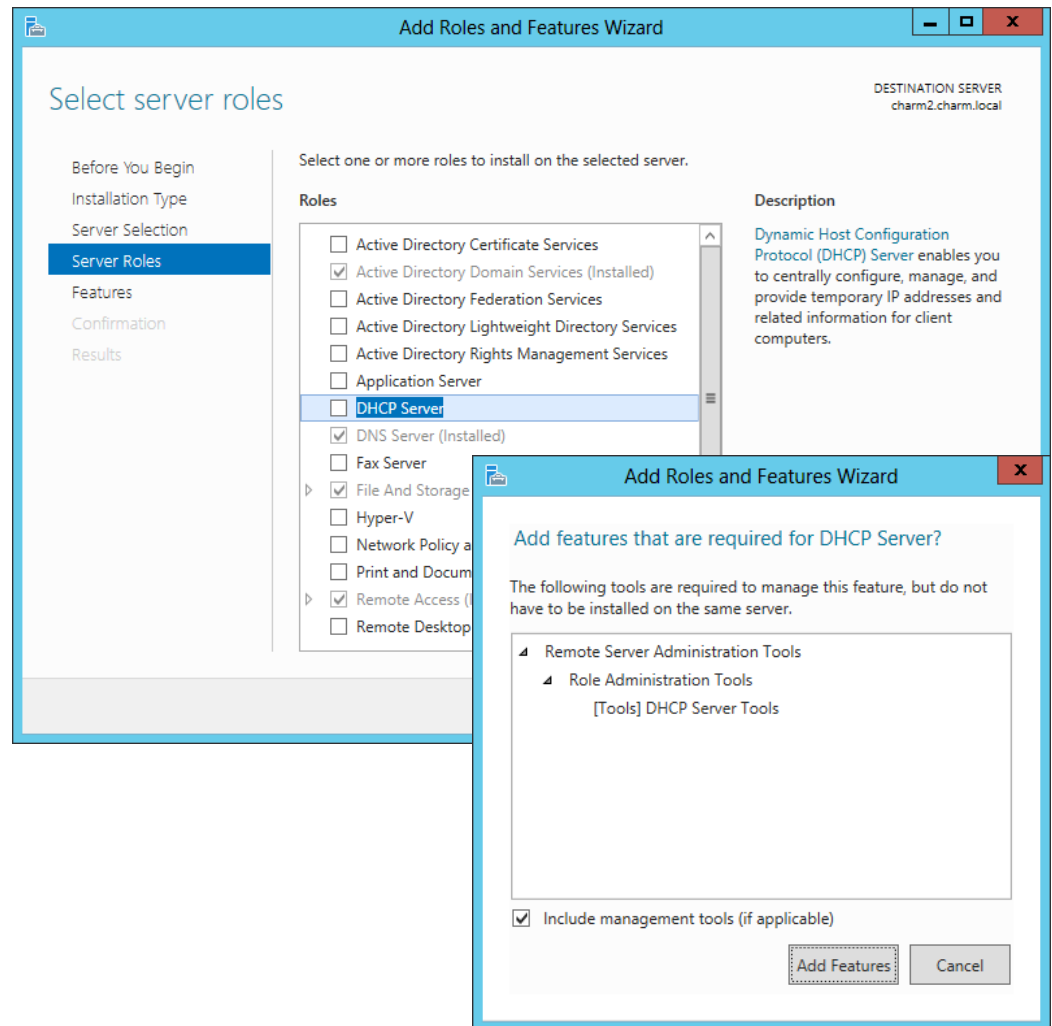
Name	IP Address	Operating System
charm2.charm.local	192.168.10.231...	Microsoft Windows Server 2012 Standard

Below the table, it says '1 Computer(s) found'. A note at the bottom states: 'This page shows servers that are running Windows Server 2012, 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.' At the bottom of the window, there are four buttons: '< Previous', 'Next >' (highlighted in blue), 'Install', and 'Cancel'.

Select Server Role

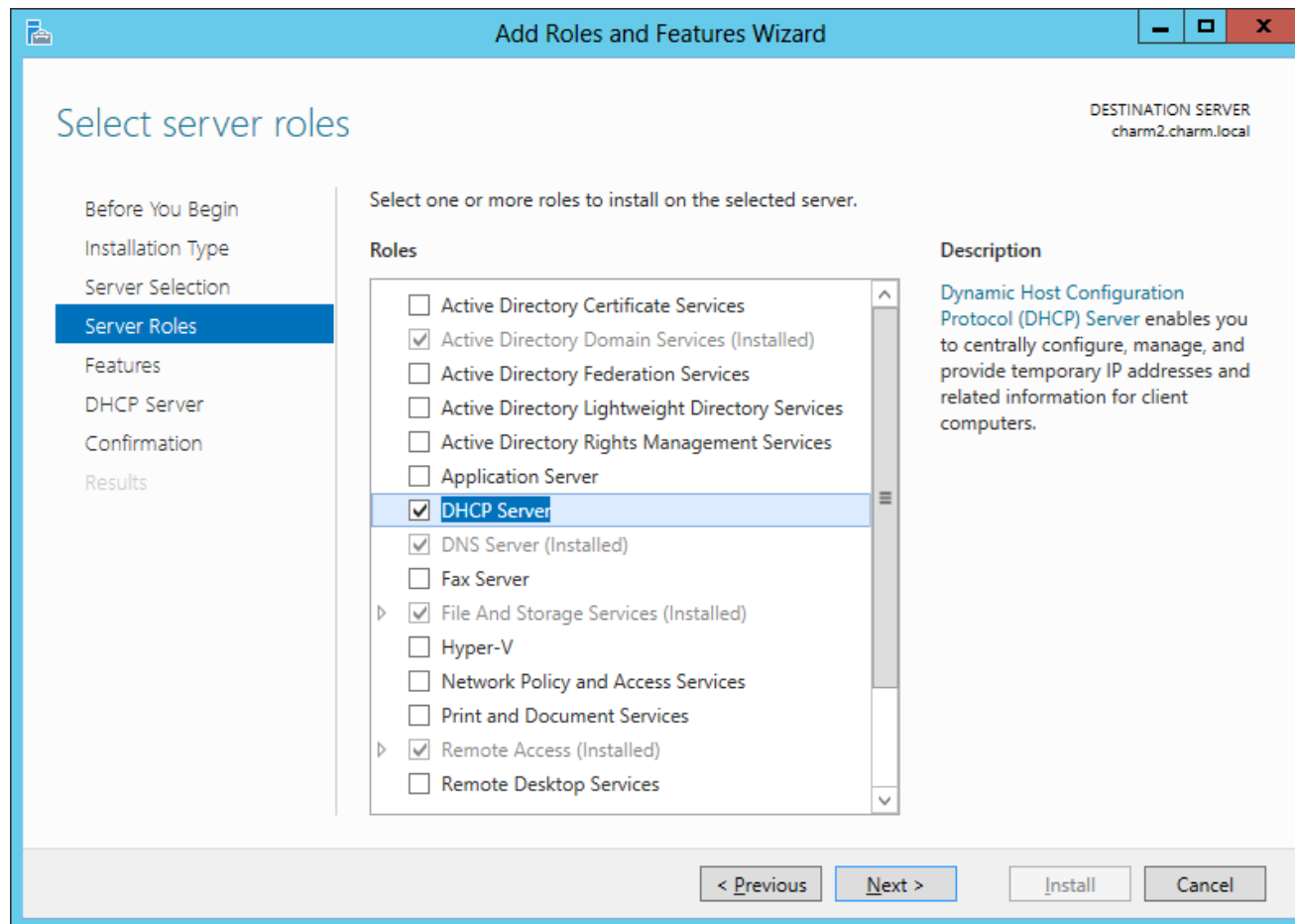
The Add Roles and Features Wizard window shows the multitude of functions a 2012 server can provide. We annotate the DHCP Server checkbox and press the Next button.

A smaller dialogue box will appear and we then press the Add Features button on that pop up window.



Confirm Installation Selections

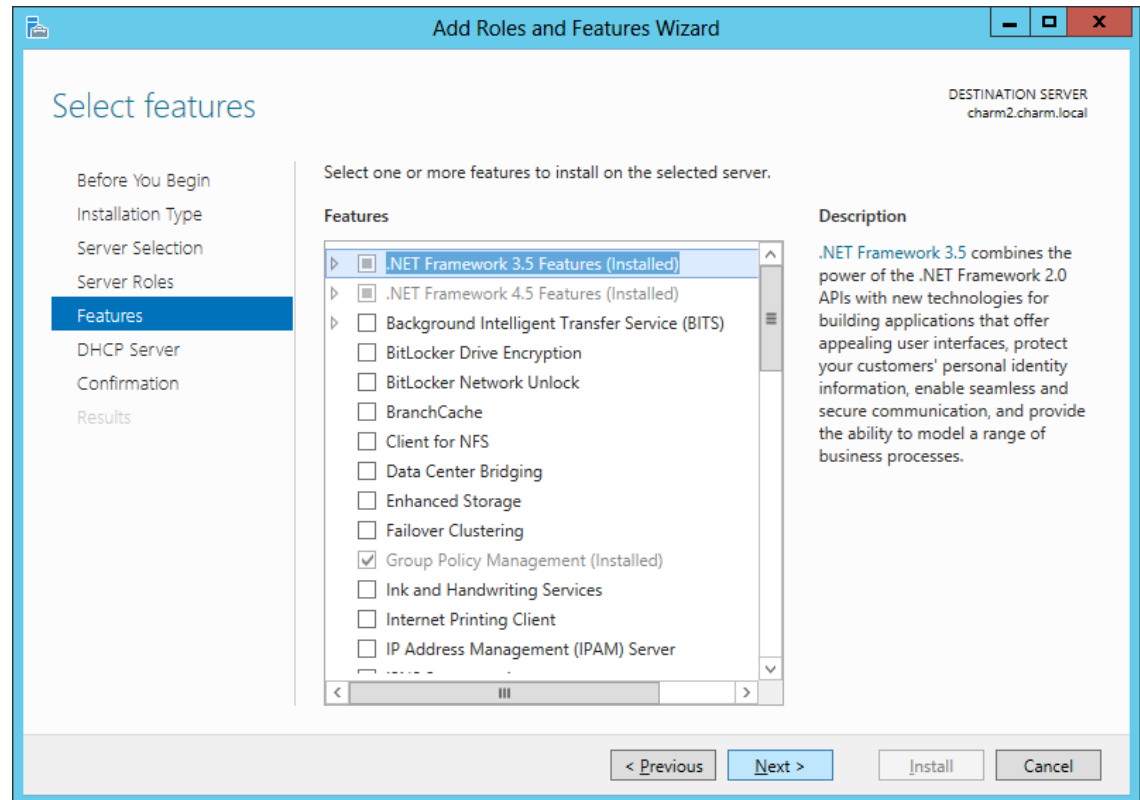
The DHCP Server role is now checked on the roles list and we push the Next button to continue.



Features Window

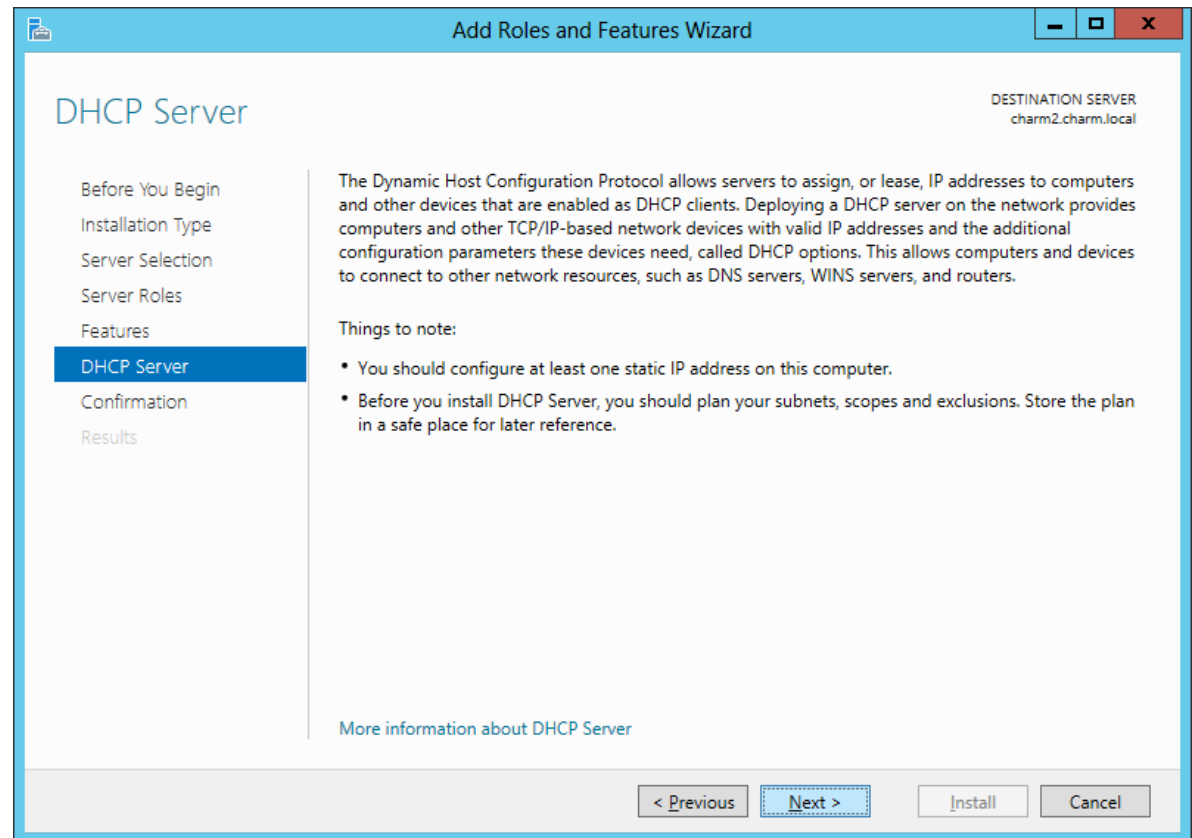
Next, the Features window comes up and we will not add any features at this time.

Press the Next button to go on.



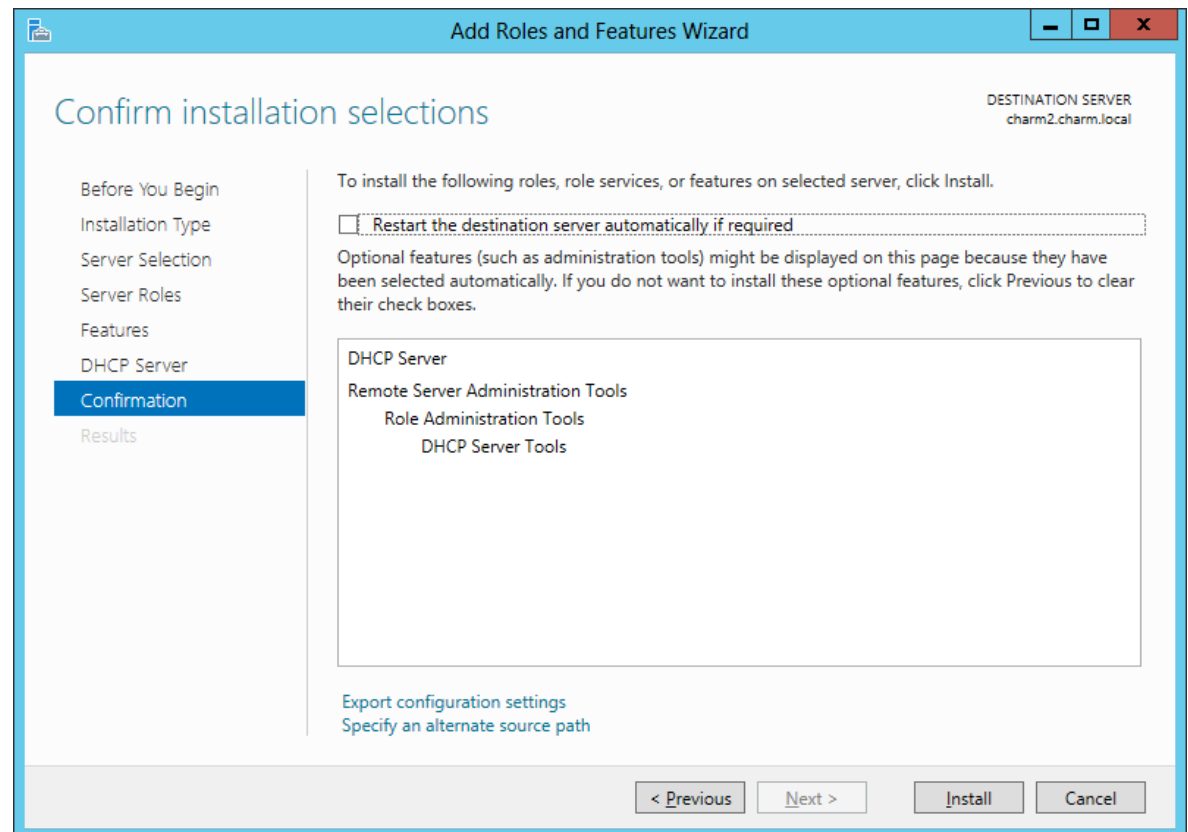
Introduction to DHCP Server

On this window, we can learn more about the DHCP servers. We choose the Next button to proceed.



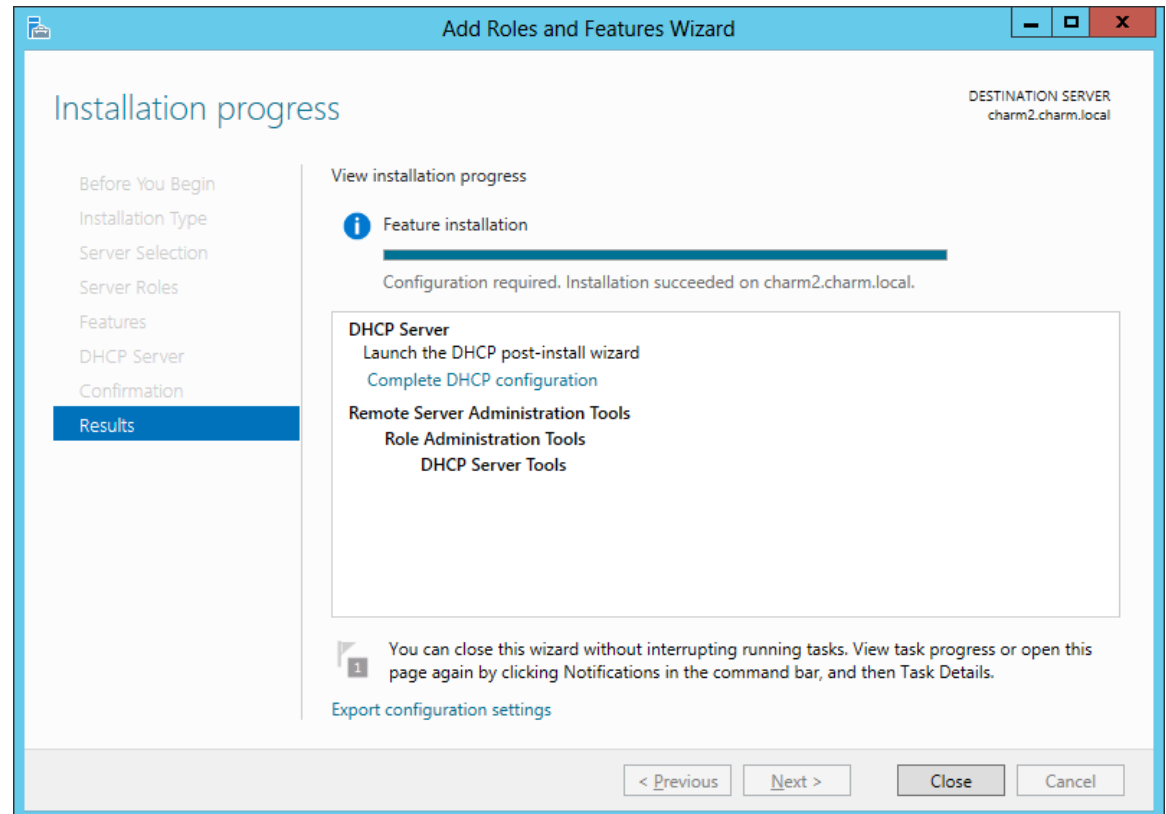
Confirm Installation Selections

Before the installation begins, we can see a summary of our choices and if we need to change anything, we can return to the specific dialogue box using the Previous button. If we agree with all of the settings, we should choose the Install button.



Install DHCP Server

For several minutes, the DHCP server will be installed and authorized. When the process is complete, we close the Add Roles Wizard and the Server Manager windows.



DHCP Service Running

We visit the Server Manager and click on Tools and we select DHCP. When that window appears, we can see our DHCP is running and ready to assign IP addresses to our client computers.

