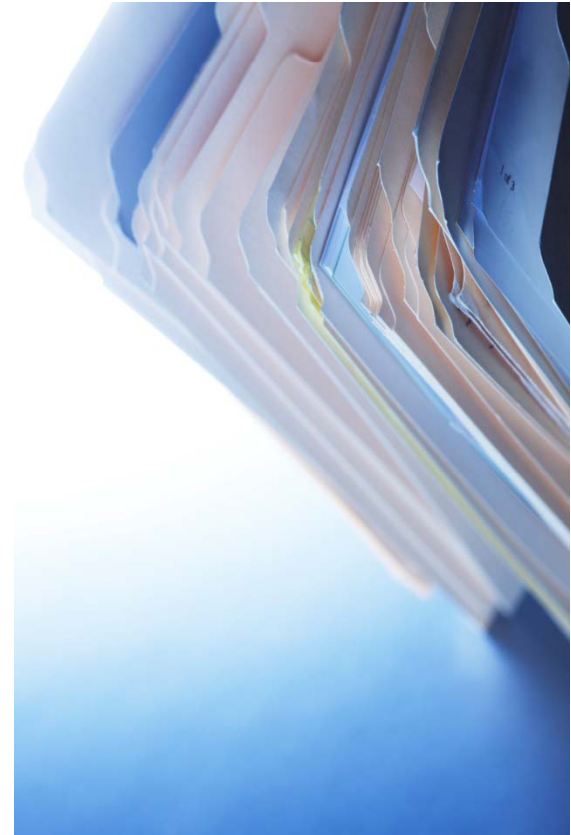


Installing Distributed File System (DFS)

July 16, 2012

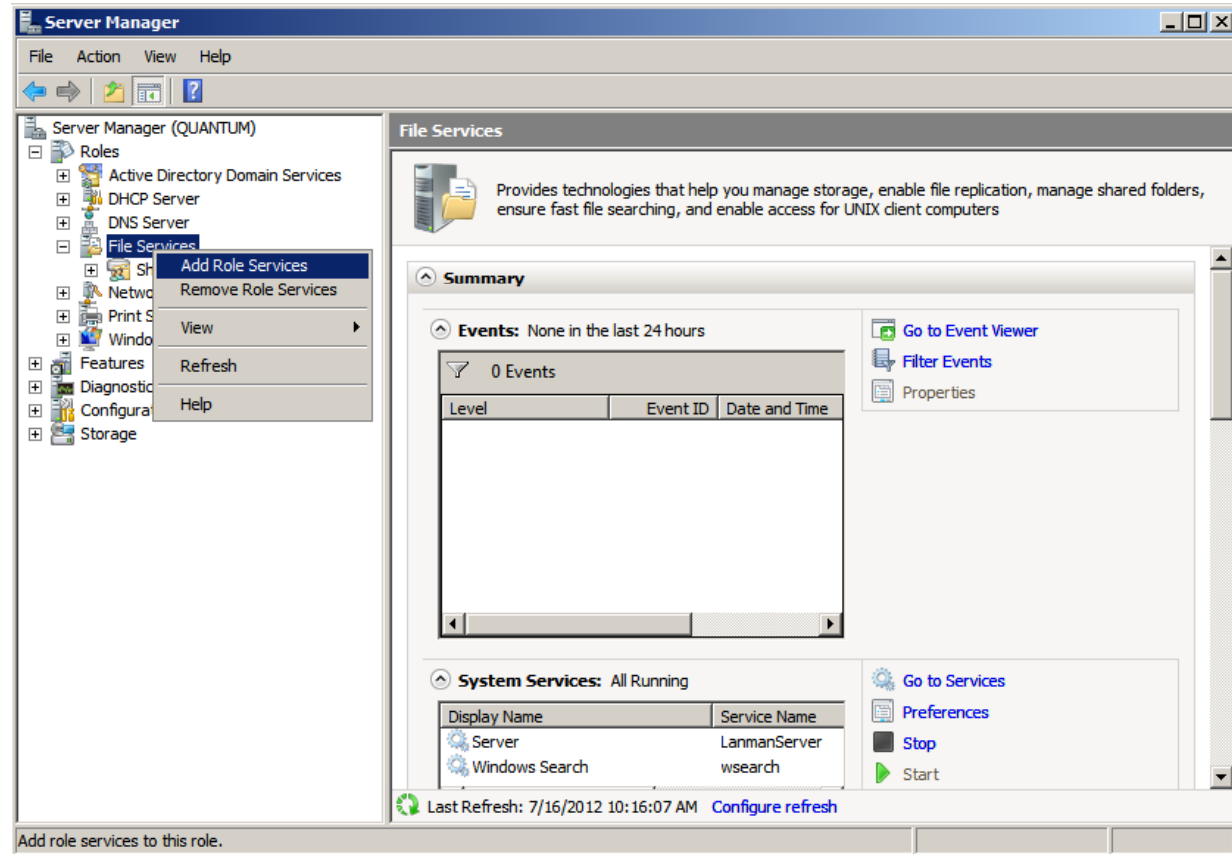
The Distributed File System

We use the Distributed File System to replicate our files from the shared folders holding the data for our organization to the secondary server.



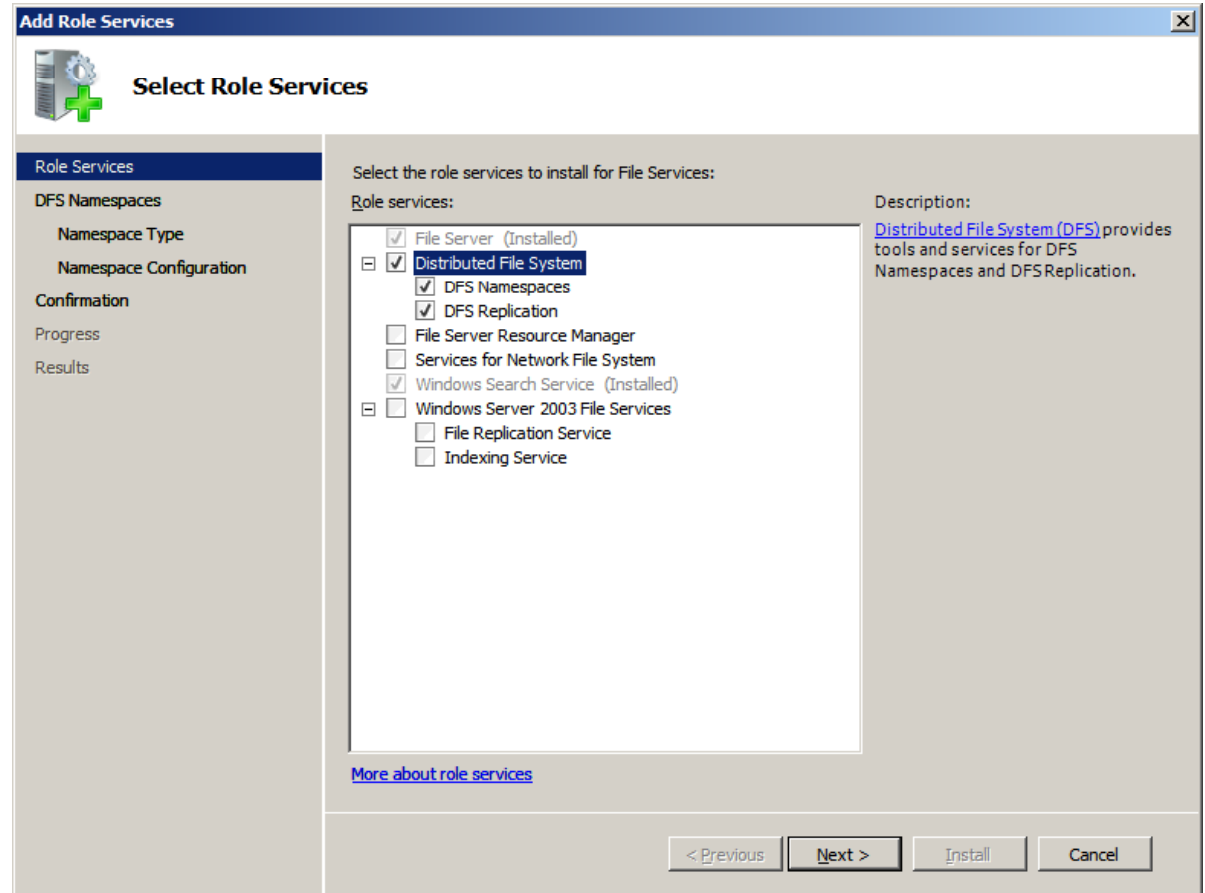
Server Manager

In the Server Manager window, expand the server roles list on the left side of the menu. Right click on File Services and choose Add Role Services from the popup menu.



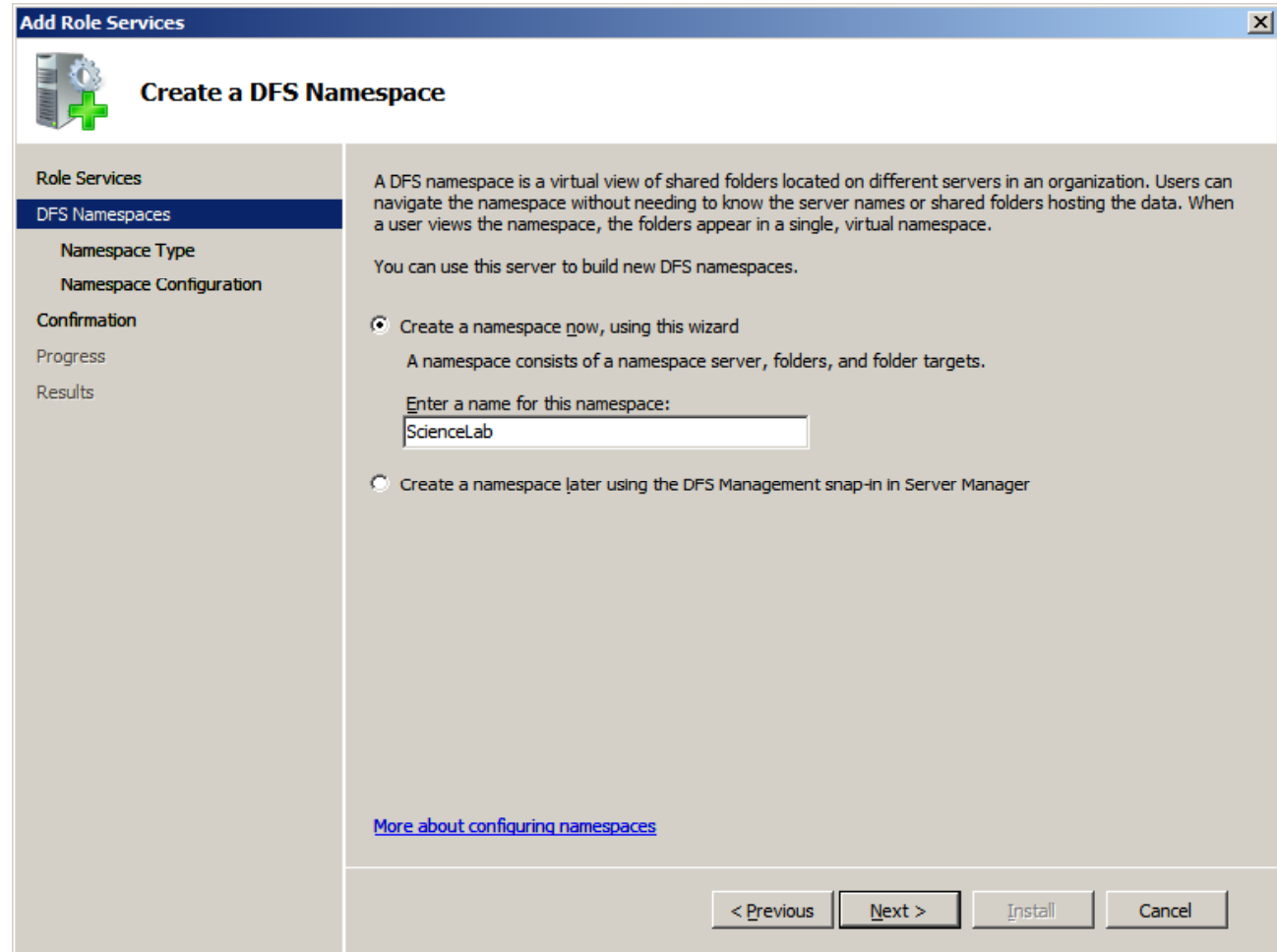
Select Role Services

On the Select Role Services window, annotate the Distributed File Services, DFS Namespaces and DFS Replication checkboxes.



Create a DFS Namespace

In the Create a DFS Namespace, we opt for the Create a namespace now radial button. We type ScienceLAB for the namespace.



The screenshot shows the 'Add Role Services' wizard window. The title bar reads 'Add Role Services'. The main heading is 'Create a DFS Namespace' with a gear and plus icon. On the left, a navigation pane lists: 'Role Services', 'DFS Namespaces' (selected), 'Namespace Type', 'Namespace Configuration', 'Confirmation', 'Progress', and 'Results'. The main content area explains that a DFS namespace is a virtual view of shared folders and provides instructions on how to create one. Two radio buttons are present: 'Create a namespace now, using this wizard' (selected) and 'Create a namespace later using the DFS Management snap-in in Server Manager'. Below the first option, there is a text input field labeled 'Enter a name for this namespace:' containing the text 'ScienceLab'. A link for 'More about configuring namespaces' is at the bottom. At the very bottom, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

Add Role Services

Create a DFS Namespace

Role Services

- DFS Namespaces
- Namespace Type
- Namespace Configuration
- Confirmation
- Progress
- Results

A DFS namespace is a virtual view of shared folders located on different servers in an organization. Users can navigate the namespace without needing to know the server names or shared folders hosting the data. When a user views the namespace, the folders appear in a single, virtual namespace.

You can use this server to build new DFS namespaces.

Create a namespace now, using this wizard

A namespace consists of a namespace server, folders, and folder targets.

Enter a name for this namespace:

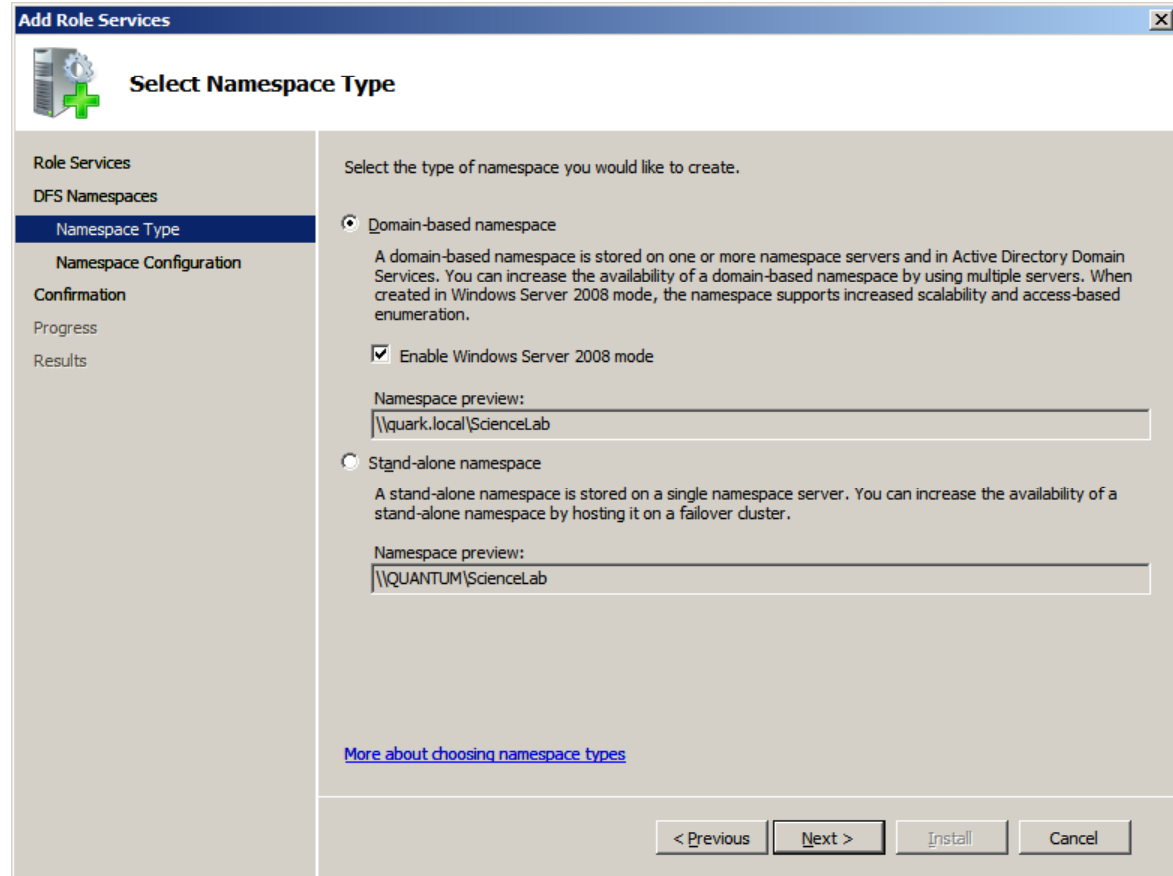
Create a namespace later using the DFS Management snap-in in Server Manager

[More about configuring namespaces](#)

< Previous Next > Install Cancel

Select Namespace Type

On the Select Namespace Type window, we retain the Domain based namespace option and we will keep the Windows Server 2008 mode.



The screenshot shows the 'Add Role Services' wizard window, specifically the 'Select Namespace Type' step. The window title is 'Add Role Services' and the subtitle is 'Select Namespace Type'. On the left side, there is a navigation pane with the following items: 'Role Services', 'DFS Namespaces', 'Namespace Type' (which is selected and highlighted in blue), 'Namespace Configuration', 'Confirmation', 'Progress', and 'Results'. The main area of the window contains the following text and controls:

Select the type of namespace you would like to create.

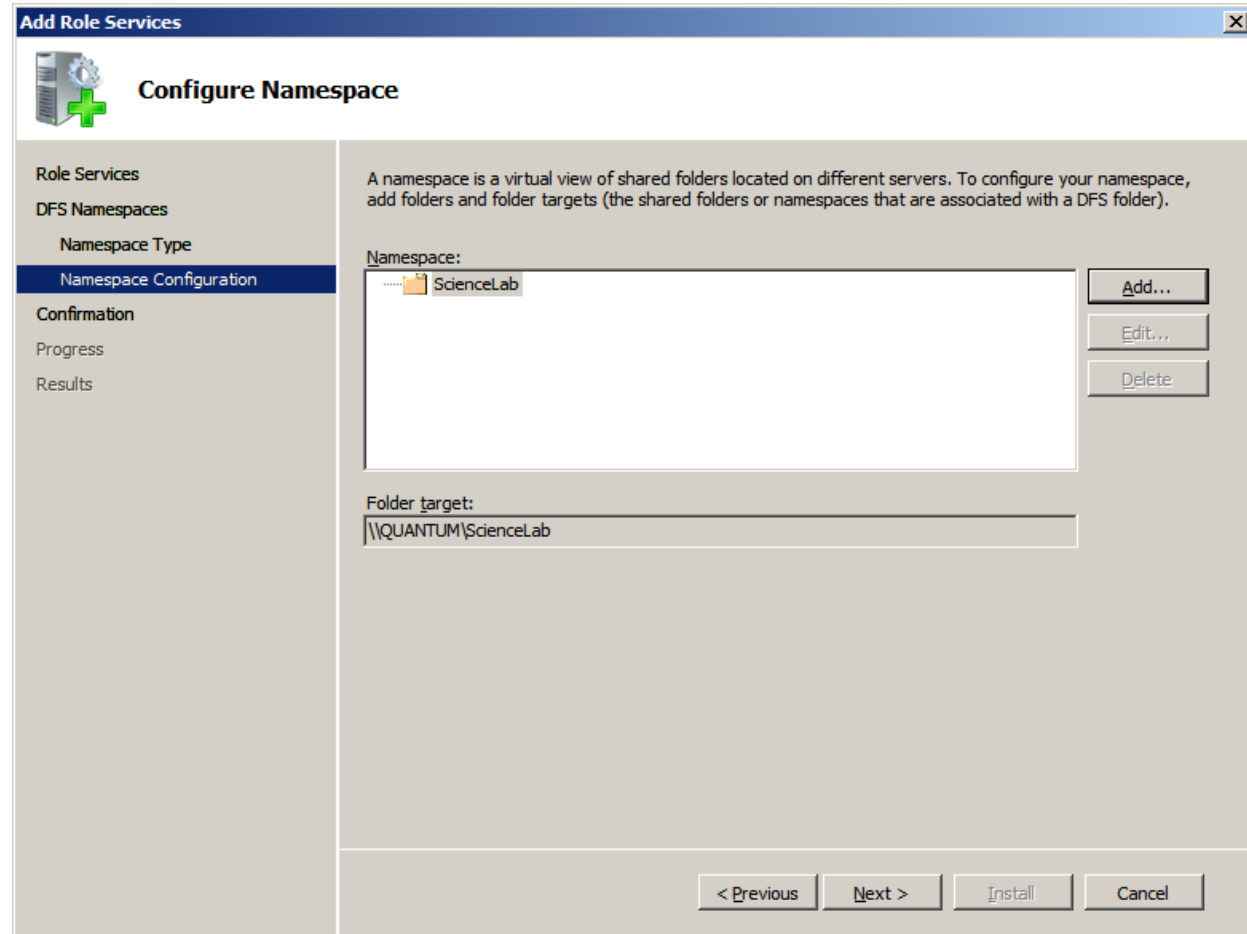
- Domain-based namespace
A domain-based namespace is stored on one or more namespace servers and in Active Directory Domain Services. You can increase the availability of a domain-based namespace by using multiple servers. When created in Windows Server 2008 mode, the namespace supports increased scalability and access-based enumeration.
 Enable Windows Server 2008 mode
Namespace preview:
- Stand-alone namespace
A stand-alone namespace is stored on a single namespace server. You can increase the availability of a stand-alone namespace by hosting it on a failover cluster.
Namespace preview:

At the bottom of the main area, there is a link: [More about choosing namespace types](#)

At the bottom right of the window, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

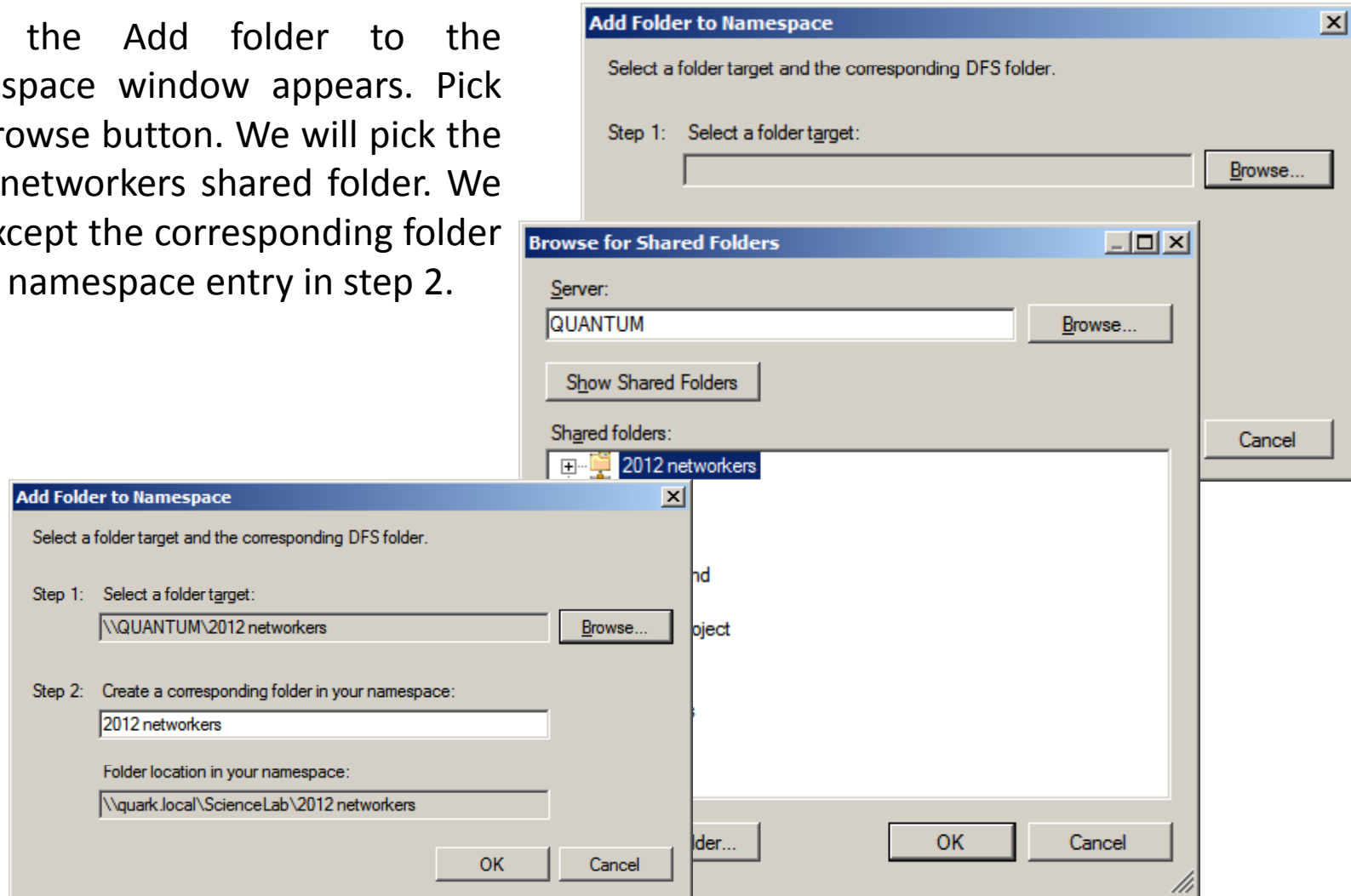
Configure Namespace

In the Configure Namespace window, we can see the ScienceLab folder. We can push the Add button to add target folders.



Add a Folder to the Namespace

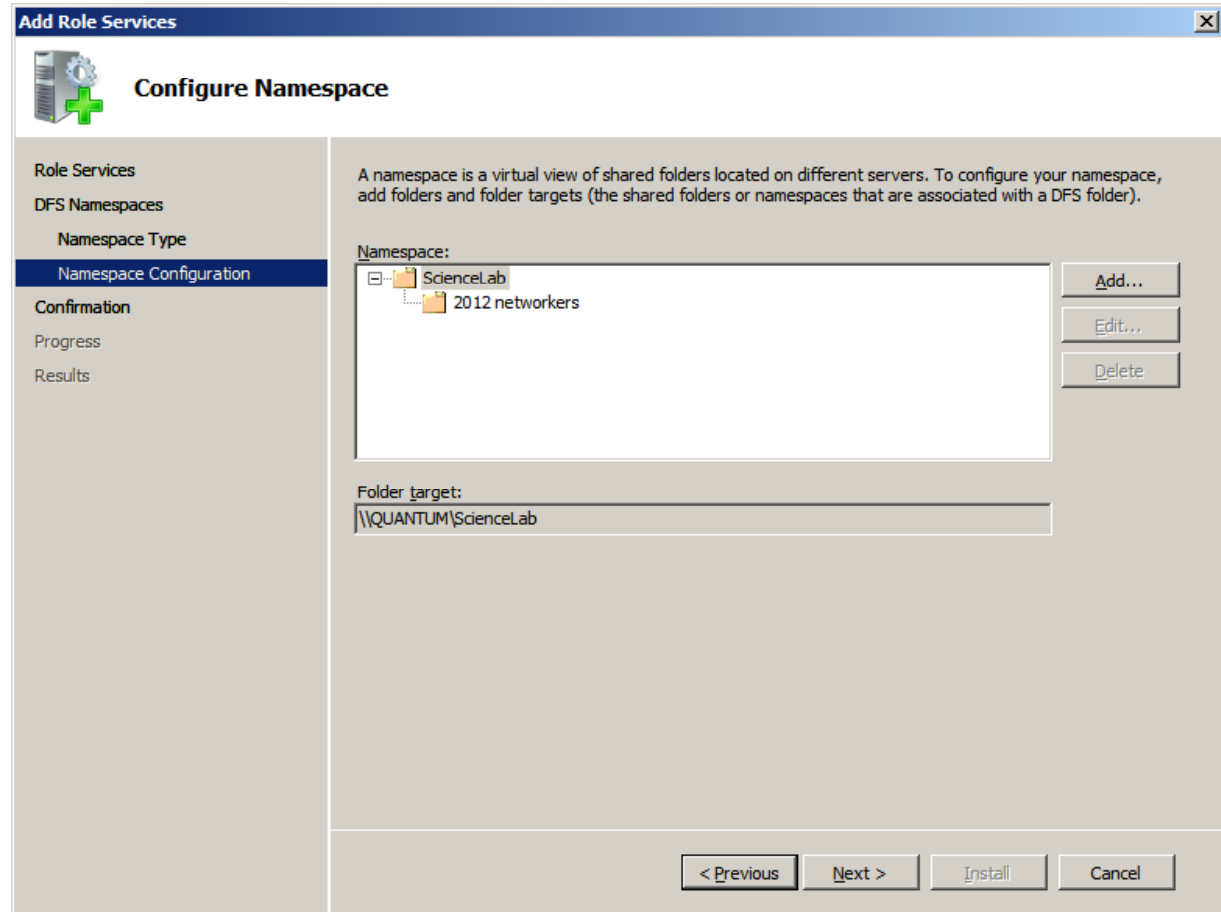
Then the Add folder to the Namespace window appears. Pick the Browse button. We will pick the 2012 networkers shared folder. We will expect the corresponding folder in the namespace entry in step 2.



Namespace Configured

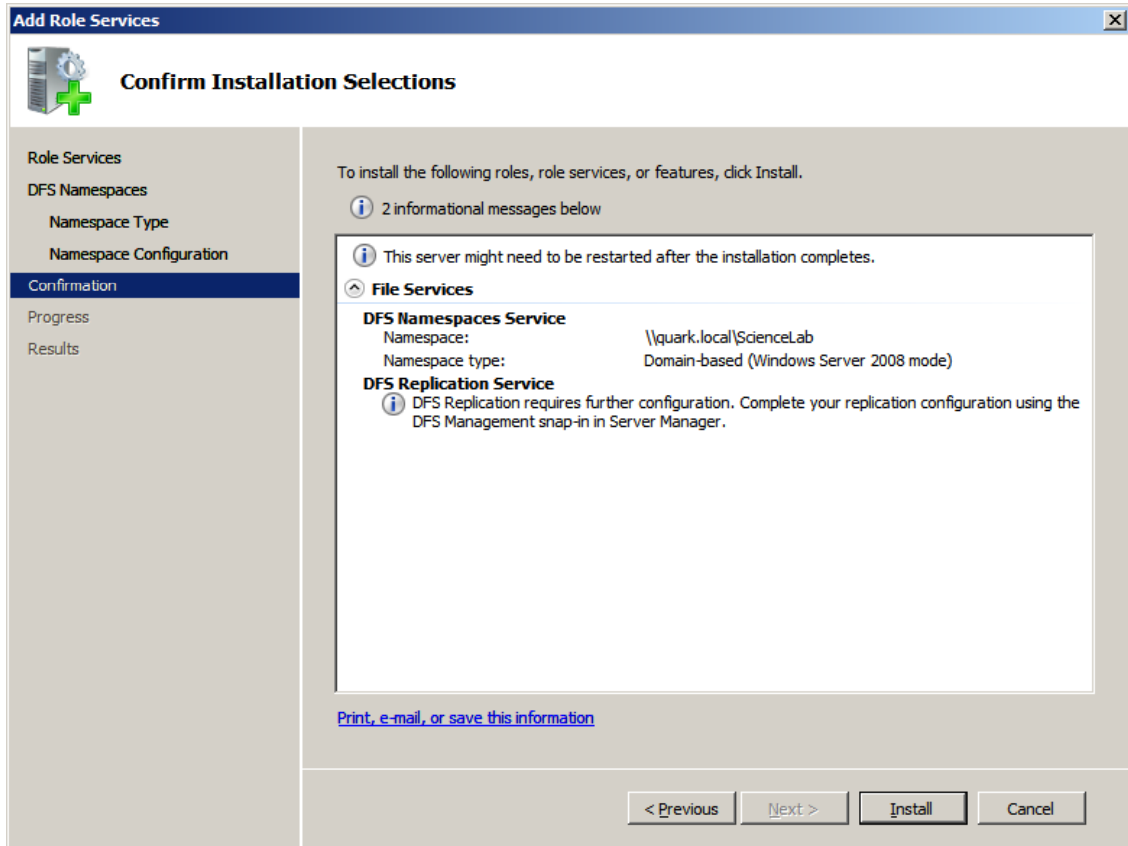
We come back to the Configure Namespace window and we can see the shared folder.

We press the Next button to continue.



Confirm Installation Selections

We will then confirm the setting and press the Install button.



Installation Complete

It will take several minutes to add the DFS role services.

The image shows two overlapping windows from the Windows Server installation wizard. The background window is titled "Add Role Services" and is in the "Installation Progress" step. It shows a list of steps: Role Services, DFS Namespaces, Namespace Type, Namespace Configuration, Confirmation, Progress (highlighted), and Results. The foreground window is titled "Add Role Services" and is in the "Installation Results" step. It displays a green checkmark and the text "Installation succeeded". Below this, it lists the installed role services: "File Services" (expanded to show "Distributed File System", "DFS Namespaces", and "DFS Replication"). At the bottom of the foreground window, there are buttons for "< Previous", "Next >", "Close", and "Cancel". At the bottom of the background window, there is a progress bar labeled "Initializing installation..." and buttons for "< Previous", "Next >", "Install", and "Cancel".

Add Role Services - Installation Progress

Role Services
DFS Namespaces
Namespace Type
Namespace Configuration
Confirmation
Progress
Results

The following roles, role services, or features were installed successfully:

File Services

- Distributed File System
- DFS Namespaces
- DFS Replication

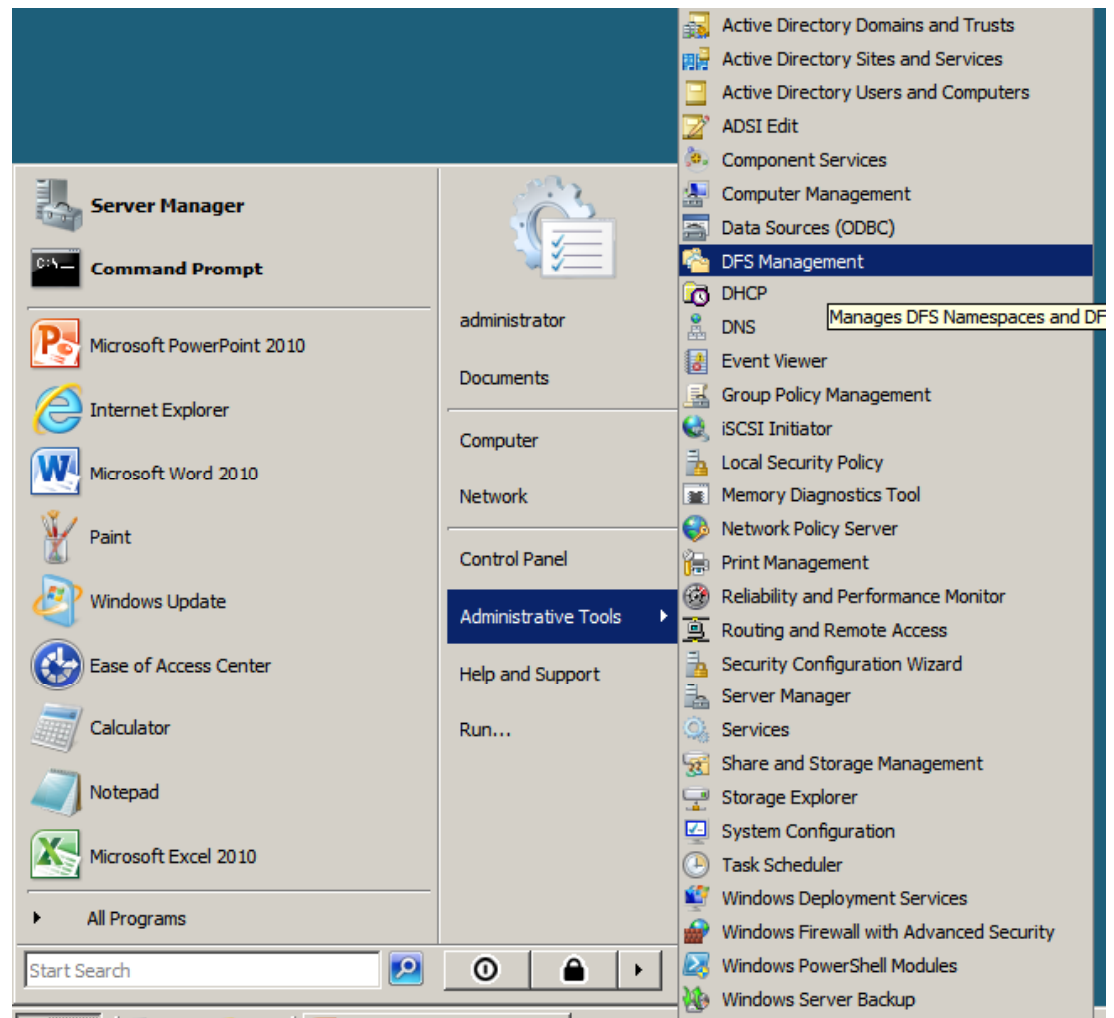
< Previous Next > Close Cancel

Initializing installation...

< Previous Next > Install Cancel

DFS Management

To open the Distributed File console, we choose DFS Management from the Administrative Tool menu.



DFS Management Console

We can see the namespace under our domain listing on the left pane of the DFS Management console.

