

3장 데모1- Configuring an iSCSI target

Leave the virtual machines running for the next demonstration.

Preparation Steps

To prepare for this demonstration, start the **20740C-LON-DC1** and **20740C-LON-SVR1** virtual machines, and then sign in as **AdatumWAdministrator** with the password **Pa55w.rd**.

Demonstration Steps

Add the iSCSI Target Server role service

1. On **LON-DC1**, in Server Manager, click **Manage**, and then click **Add Roles and Features**.
2. In the **Add Roles and Features Wizard**, on the **Before you begin** page, click **Next**.
3. On the **Select installation type** page, click **Next**.
4. On the **Select destination server** page, ensure that **Select a server from the server pool** is selected, and then click **Next**.
5. On the **Select server roles** page, expand **File and Storage Services (2 of 12 installed)**, expand **File and iSCSI Services (1 of 11 installed)**, select the **iSCSI Target Server** check box, and then click **Next**.
6. On the **Select features** page, click **Next**.
7. On the **Confirm installation selections** page, click **Install**.
8. When installation completes, click **Close**.

Create two iSCSI virtual disks and an iSCSI target

1. On **LON-DC1**, in Server Manager, in the navigation pane, click **File and Storage Services**.
2. In the **File and Storage Services** pane, click **iSCSI**.
3. In the **iSCSI VIRTUAL DISKS** pane, click **TASKS**, and then, in the **TASKS** list, click **New iSCSI Virtual Disk**.
4. In the **New iSCSI Virtual Disk Wizard**, on the **Select iSCSI virtual disk location** page, under **Storage location**, click volume **C:**, and then click **Next**.
5. On the **Specify iSCSI virtual disk name** page, in the **Name** box, type **iSCSIDisk1**, and then click **Next**.
6. On the **Specify iSCSI virtual disk size** page, in the **Size** box, type **5**, ensure that **GB** is selected, and then click **Next**.
7. On the **Assign iSCSI target** page, click **New iSCSI target**, and then click **Next**.
8. On the **Specify target name** page, in the **Name** box, type **LON-DC1**, and then click **Next**.
9. On the **Specify access servers** page, click **Add**.
10. In the **Select a method to identify the initiator** dialog box, click **Enter a value for the selected type**.
11. In the **Type** list, click **IP Address**, in the **Value** field, type **172.16.0.21**, and then click **OK**.
12. On the **Specify access servers** page, click **Next**.
13. On the **Enable Authentication** page, click **Next**.
14. On the **Confirm selections** page, review the parameters, and then click **Create**.
15. On the **View results** page, wait until the virtual disk is created, and then click **Close**.
16. In the **iSCSI VIRTUAL DISKS** pane, click **TASKS**, and then, in the **TASKS** list, click

New iSCSI Virtual Disk.

17. In the **New iSCSI Virtual Disk Wizard**, on the **Select iSCSI virtual disk location** page, under **Storage location**, click volume **C:**, and then click **Next**.
18. On the **Specify iSCSI virtual disk name** page, type **iSCSIDisk2**, and then click **Next**.
19. On the **Specify iSCSI virtual disk size** page, in the **Size** box, type **5**, ensure that **GB** is selected, and then click **Next**.
20. On the **Assign iSCSI target** page, click **LON-DC1**, and then click **Next**.
21. On the **Confirm selections** page, review the parameters, and then click **Create**.
22. On the **View results** page, wait until the virtual disk is created, and then click **Close**.

Connect to the iSCSI target

1. On **LON-SVR1**, if necessary, open **Server Manager**.
2. In Server Manager, click the **Tools** menu, and then click **iSCSI Initiator**.
3. In the **Microsoft iSCSI** message box, click **Yes**.
4. In the **iSCSI Initiator Properties** dialog box, on the **Targets** tab, type **LON-DC1**, and then click **Quick Connect**.
5. In the **Quick Connect** dialog box, under **Discovered targets**, click **iqn.1991-05.com.microsoft:lon-dc1-lon-dc1-target**, and then click **Done**.
6. In the **iSCSI Initiator Properties** dialog box, to close the dialog box, click **OK**.

Verify the presence of the iSCSI drive

1. On **LON-SVR1**, in Server Manager, in the **Tools** menu, click **Computer Management**.
2. In the **Computer Management** console, under the **Storage** node, click **Disk**

Management.

Note: The new disks are added, but they all are currently offline and not formatted. These are listed as Disk 11 and Disk 12.

3. Close the **Computer Management** console.

3장 데모2- Configuring MPIO

Leave the virtual machines running for the next demonstration.

Preparation Steps

To prepare for this demonstration, start the **20740C-LON-DC1** and **20740C-LON-SVR1** virtual machines, and then sign in as **AdatumWAdministrator** with the password **Pa55w.rd**. These should still be running from the previous demonstration.

Demonstration Steps

1. On **LON-SVR1**, in Server Manager, click **Manage**, and then click **Add Roles and Features**.
2. In the **Add Roles and Features Wizard**, on the **Before you begin** page, click **Next**.
3. On the **Select installation type** page, click **Next**.
4. On the **Select destination server** page, ensure that **Select a server from the server pool** is selected, and then click **Next**.
5. On the **Select server roles** page, click **Next**.
6. On the **Select features** page, select the **Multipath I/O** check box, and then click **Next**.
7. On the **Confirm installation selections** page, click **Install**.
8. When installation is complete, click **Close**.
9. Restart **LON-SVR1** and sign in as **AdatumWAdministrator** with the password **Pa55w.rd**.
10. If necessary, open **Server Manager**.
11. In Server Manager, on the menu bar, click **Tools**, and then click **MPIO**.
12. In the **MPIO Properties** dialog box, click the **Discover Multi-Paths** tab.

13. On the **Discover Multi-Paths** tab, select the **Add support for iSCSI devices** check box, and then click **Add**. When you are prompted to restart the computer, click **Yes**.
14. After the computer restarts, sign in to **LON-SVR1** with the user name **AdatumWAdministrator** and the password **Pa55w.rd**.
15. If necessary, open **Server Manager**.
16. In Server Manager, on the menu bar, click **Tools**, and then click **MPIO**.

Note: In the **MPIO Properties** dialog box, on the **MPIO Devices** tab, notice that additional **Device Hardware Id MSFT2005iSCSIBusType_0x9** is added to the list.

17. To close the **MPIO Properties** dialog box, click **OK**.

3장 데모3- Configuring MPIO

After completing the demonstration, leave the virtual machines running for the next demonstration.

Preparation Steps

To prepare for this demonstration, start the **20740C-LON-DC1** and **20740C-LON-SVR1** virtual machines, and then sign in as **AdatumWAdministrator** with the password **Pa55w.rd**. These should still be running from the previous demonstration.

Demonstration Steps

Create an SMB share by using Server Manager

1. On **LON-SVR1**, in Server Manager, in the navigation pane, click **File and Storage Services**, and then click **Shares**.
2. In the **SHARES** area, click **TASKS**, and then click **New Share**.
3. In the **New Share Wizard**, on the **Select the profile for this share** page, in the **File share profile** box, click **SMB Share – Quick**, and then click **Next**.
4. On the **Select the server and path for this share** page, select **LON-SVR1**, click **Select by volume**, click **D:**, and then click **Next**.
5. On the **Specify share name** page, in the **Share name** box, type **DemoShare**, and then click **Next**.
6. On the **Configure share settings** page, select the **Enable access-based enumeration** check box, and then click **Next**.
7. On the **Specify permissions to control access** page, click **Next**.
8. On the **Confirm selections** page, click **Create**.
9. When creation of the share is complete, click **Close**.

Create an SMB share by using Windows PowerShell

1. Right-click the **Start** button, and then click **Windows PowerShell (Admin)**.
2. At the Windows PowerShell prompt, type the following command, and then press Enter:

Mkdir D:\Shares\DemoShare2

3. Type the following command, and then press Enter:

**New-SmbShare -Name DemoShare2 -Path D:\Shares\DemoShare2 -
FolderEnumerationMode AccessBased**

4. Type the following command, and then press Enter:

Get-SmbShare

5. Type the following command, and then press Enter:

Get-SmbShare DemoShare | FL *

View SMB session information

1. On **LON-DC1**, on the taskbar, click **File Explorer**.
2. In **File Explorer**, in the address bar, type **\\LON-SVR1\DemoShare**, and then press Enter.
3. On **LON-SVR1**, at the **Windows PowerShell** prompt, type the following command, and then press Enter:

Get-SmbSession

4. Type the following command, and then press Enter:

Get-SmbSession -ClientUserName Adatum\Administrator | FL *

5. Close the **Windows PowerShell** prompt.
6. On **LON-DC1**, close **File Explorer**.

3장 데모4-Configuring an NFS share by using Server Manager

After you have completed the demonstration, please revert all virtual machines.

Preparation Steps

To complete this demonstration, you must have completed the previous demonstrations.

Demonstration Steps

1. On **LON-SVR1**, in Server Manager, in the navigation pane, click **File and Storage Services**, and then click **Shares**.
2. In the **SHARES** area, click **TASKS**, and then click **New Share**.
3. In the **New Share Wizard**, on the **Select the profile for this share** page, in the **File share profile** box, click **NFS Share - Quick**, and then click **Next**.
4. On the **Select the server and path for this share** page, click **LON-SVR1**, click **Select by volume**, click **D:**, and then click **Next**.
5. On the **Specify share name** page, in the **Share name** box, type **DemoNfsShare**, and then click **Next**.
6. On the **Specify authentication methods** page, select **Kerberos v5 authentication(Krb5)**, and then click **Next**.
7. On the **Specify the share permissions** page, click **Add**.
8. In the **Add Permissions** window, click **All Machines**.
9. In the **Share permissions** box, select **Read / Write**, and then click **Add**.
10. On the **Specify the share permissions** page, click **Next**.
11. On the **Specify permissions to control access** page, click **Next**.
12. On the **Confirm selections** page, click **Create**.

On the **View results** page, click **Close**.