StarWind SMI-S Agent:

Storage Provider for SCVMM

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REQUIREMENTS

This technical paper describes how to enable the StarWind SMI-S Provider for use with the SC Virtual Machine Manager. To complete the installation process successfully, you need to have a customized network infrastructure, configured DNS service, and at least two servers in a domain. One of the servers should have previously installed the SCVMM service, while another one has StarWind iSCSI SAN that supports multi-LUN targets (v5.8 and later).
CONFIGURING THE STARWIND STORAGE SERVER

Create a new target:

1. Launch the StarWind Management Console by clicking Start -> All Programs -> StarWind Software -> StarWind -> StarWind Management Console.

   **Note:** The StarWind Console icon appears in the system tray, when the Console is running. To open StarWind Management Console, double-click or right click its icon. Then, select Start Management Console from the shortcut menu.

2. From the Console tree, select the server you want to provide with the iSCSI target device.
3. Double-click the host to connect.
4. You will be prompted to enter your login and password. The default login and password are “root” and “starwind”. You can always change them later.

   **Note:** Optionally select the Save password checkbox to save a password.

5. To add a target, perform one of the following actions:
   - Select Add Target from the Targets menu.
   - Select Add Target from the host’s or target’s shortcut menu (right click a host to open it).

   The Add Target Wizard appears. Please follow the instructions to complete the creation of a new target.

6. Click Next to continue.
7. Click **Next** to continue, or click **Back** to return to the previous steps and change the settings.

8. Click **Finish** to close the wizard. The successfully added target appears in the **StarWind Console**.
To install StarWind SMI-S Agent:

1. Double-click the installer.
2. When prompted to install the SMI-S Agent as a Windows Service, click Yes.

3. **StarWind SMI-S Agent Setup Wizard** appears. Click Next to continue.

4. Define the folder to install the SMI-S Agent and click Next.
5. Click **Install** to begin the installation process, or click **Back** to change any settings.

![Setup - StarWind SMI-S Agent](image)

6. During the installation you will be informed about a series of CMD prompts. Click **OK** to continue the process.

![Setup](image)

7. To complete the installation process, restart your computer. You can either select “**Yes, restart the computer now**”, or do it later by yourself.

![Completing the StarWind SMIS Agent Setup Wizard](image)

8. Click **Finish**.
To configure a previously installed SMI-S Agent:

1. Run the `ConfiguratorConsole.exe` from `%INSTALL PATH%\StarWind SMIS\OpenPegasus\bin`. Please follow the instructions to ensure proper performance.

   **Note**: If SMI-S Agent and StarWind iSCSI SAN software were installed on different servers, enter the host IP address and the host name of the StarWind iSCSI SAN server.

2. Launch the automated script `sslsetup.cmd` from `%INSTALL PATH%\StarWind SMIS\OpenPegasus\bin` to generate an SSL certificate. Please follow the instructions to ensure proper performance.

3. To complete the configuration process, restart your computer.
CONFIGURING SCVMM 2012

Prior to starting the discovery process, you should setup a Run As Account that is used to connect to the SMI-S Provider.

To configure a Run As Account:

1. Launch the VMM Console.
2. Navigate to Settings in the bottom left pane of the VMM Console.
3. At the top of the VMM Console under of the Home tab, expand Create Run As Account.
4. In the Create Run As Account wizard, enter Name (e.g.: Storage Account).
5. Enter a description (optionally).
6. Specify the account with domain administrator permissions in the User name field.
7. Enter password and confirm it.

8. Click OK to save credentials. They will be used when adding a storage device.

To discover and classify storage:

1. Launch the VMM Console.
2. Select Fabric in the bottom left pane of the VMM Console.
3. In the VMM Console, right-click Providers (or Arrays) and select Add Storage Devices. Otherwise, at the top of the VMM Console under the Home tab, expand Add Resources and select Storage Devices. The Add Storage Devices Wizard appears.

4. In the Specify Discovery Scope section of the Add Storage Devices Wizard, enter the IP Address or FQDN and port.

Note: If you use SSL connection, select the Use Secure Sockets Layer (SSL) connection checkbox and enter the port 5989. Otherwise, do not select the checkbox and use the port 5988.
5. Click **Browse** to start the **Run As** dialog and select a previously created account or create a new one.

6. Click **OK**.
7. Click **Next** to continue.
8. During the discovery process you will be prompted to import the certificate. Click **Import** to continue.

**Note:** If you receive the error messages "SSL certificate common name is invalid" or "Certificate Authority is not recognized", disable CN verification for the storage provider certificate in the registry. For further details, please refer to the following Microsoft TechNet article:

9. Check the StarWind Storage Array details at the end of discovery process. Click **Next** to continue.

10. You need to classify the storage pools to make them manageable. Click **Create classification**.

11. In the **New Classification** dialog box, enter a name and description and click **Add**.
12. Once classifications are created and assigned, ensure that all storage pools are selected and click **Next**.

13. In the **Summary** section, confirm the settings and click **Finish**.
14. In the SCVMM Fabric workspace, expand Storage and select Providers to ensure that the newly added StarWind Storage Provider is listed with the Responding status.
CREATING LOGICAL UNITS THROUGH VMM

To create logical units:

1. Open the Fabric workspace.
2. Click Storage.
3. Click Create Logical Unit in the Home tab of the Create group. The Create Logical Unit dialog box is opened.
4. Select the needed storage pool from the Storage pool list.
5. Enter a name for the logical unit in the Name box.

Note: Use only alphanumeric characters.

6. Enter a description for the logical unit (optionally).
7. Specify the size of the logical unit, in gigabytes in the Size (GB) box.

8. Click OK.

To verify the creation of the logical unit:

1. Navigate to Fabric workspace.
2. Expand Storage and click Classifications and Pools.
3. In the Classifications, Storage Pools, and Logical Units pane, expand the storage classification for the pool where the logical unit is created, and select the storage pool.
4. Check the list of the logical units to ensure that a new logical unit was added.
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