Discovering IBM Storwize V7000 storage resources

Prerequisites:

Note: You do not have to discover the IBM Flex System V7000 storage node; it will be automatically discovered by the IBM Flex System Manager management node. More information about the managing the IBM Flex System V7000 storage node from the IBM Flex System Manager management node is available at this location:

Information Center (Internet):
http://publib.boulder.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8731.doc/managing_storage_nodes.html

The IBM Flex System product documentation is also available on the IBM Flex System Manager management node. To access the installed documentation, click Information Center from the IBM Flex System Manager Home page and then navigate to:
IBM Flex System information→Management devices and solutions→IBM Flex System Manager management node→Managing storage nodes

Make sure that you have met the following prerequisites before you complete the steps in this quick start guide:

- An IBM Flex System Manager management node is managing a chassis that includes one or more compute nodes and a SAN switch (I/O module), such as the IBM Flex System FC3171 8Gb SAN switch. The SAN switch is connected to a SAN fabric switch, such as the IBM System Storage SAN24B-4 Express fabric switch.

  For more information about installing components in a chassis and configuring those components, see the following quick start guides:
  - *Installing the IBM Flex System Enterprise Chassis*
  - *Configuring components of the IBM Flex System Enterprise Chassis*
  - *Configuring the IBM Flex System Manager management node*
  - *Selecting one or more chassis to be managed in the IBM Flex Systems Manager domain* or *Adding a chassis to an existing Flex System Manager management domain*

- The IBM Flex System Manger management node has discovered and has full access to the SAN switch installed in the chassis. For more information about accessing the SAN switch installed in the chassis, see the *Getting full access to Fibre Channel I/O modules* quick start guide.

- At least one compute node is installed with either Virtual I/O Server or Linux Kernel-based Virtual Machine (KVM) providing the virtualization environment.

- An IBM Storwize V7000 storage system is available and accessible by the IBM Flex System Manager management node.

Steps:

Complete the following steps to discover Fibre Channel storage resources:

1. Determine if your storage resources have already been discovered by the IBM Flex System Manager management node:
    a) Log in to the IBM Flex System Manager user interface with a user account that has sufficient privileges to configure devices managed by the IBM Flex System Manager management node.
    b) On the Home page, select **Chassis Manager**.
    c) On the Chassis Manager page, select **Resource Explorer** from the General Actions drop-down.
    d) On the Resource Explorer page, select **All Systems**.
    e) Look in the All Systems group for resources that are of the following types: Switch and Storage System.

   If all switches and the IBM Storage V7000 storage system have been discovered, proceed with Step 4. Otherwise, continue with Step 2 to discover the storage system and the SAN fabric switch.

2. Discover the IBM Storwize V7000 storage system.
   The following steps describe how to discover the IBM Storwize V7000 storage system using the command-line interface. You can perform this discovery from the IBM Flex System Manager user interface as well. More information about using the user interface to discover the IBM Storwize V7000 is available at this location:

   Information Center (Internet):
   http://publib.boulder.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8731.doc/managing_storwize_v7000_automatically.html

   The IBM Flex System product documentation is also available on the IBM Flex System Manager management node. To access the installed documentation, click Information Center from the IBM Flex System Manager Home page and then navigate to:
   IBM Flex System information-->Management devices and solutions-->IBM Flex System Manager management node-->Managing external storage resources-->Configuring and managing the IBM Storwize V7000 storage system-->Managing an IBM Storwize V7000

    a) Access the IBM Flex System Manager command-line interface using a communication protocol such as SSH.
    b) Type the following command:

   ```
   smcli manageV7000 -i V7000_IP_address -p superuser_password
   ```

   where *V7000_IP_address* is the IP address of the IBM Storwize V7000 system, and *superuser_password* is the password for the superuser ID on the IBM Storwize V7000 system.

For more information, see the topic at the following link:

Information center (Internet):
http://publib.boulder.ibm.com/infocenter/flexsys/information/topic/com.ibm.director.storage.helps.doc/managing_v7000.html

The IBM Flex System product documentation is also available on the IBM Flex System Manager management node. To access the installed documentation, click Information Center from the IBM Flex System Manager Home page and then navigate to:
IBM Flex System information→Management devices and solutions→IBM Flex System Manager management node→Managing resources→Managing storage resources→Managing and configuring storage→Working with external storage applications→Installing and configuring external storage applications→Managing IBM Storwize V7000 with IBM Flex System Manager Storage Control

3. Discover the SAN Fabric switch, such as the IBM System Storage SAN24B-4 Express switch. The process for discovering the SAN Fabric switch is similar to the process used to discover the IBM Storwize V7000 storage system. More information about discovering a SAN Fabric switch is available at this location:

Information Center (Internet):
http://publib.boulder.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8731.doc/managing_storwize_v7000_automatically.html

The IBM Flex System product documentation is also available on the IBM Flex System Manager management node. To access the installed documentation, click Information Center from the IBM Flex System Manager Home page and then navigate to:
IBM Flex System information-->Management devices and solutions-->IBM Flex System Manager management node-->Managing external storage resources-->Configuring and managing the IBM Storwize V7000 storage system-->Managing an IBM Storwize V7000

4. Zone the SAN switch that is installed in the chassis:
   - For information on how to zone the IBM Flex System FC3171 8Gb SAN switch, see the *IBM Flex System FC3171 8Gb SAN Switch Quick Tools User's Guide* at the following link:

     Information center (Internet):
     http://publib.boulder.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.networkdevices.doc/88y7934.pdf

     The IBM Flex System product documentation is also available on the IBM Flex System Manager management node. To access the installed documentation, click Information Center from the IBM Flex System Manager Home page and then navigate to:
     IBM Flex System information→Network devices→Network switches→IBM Flex Systems FC3171 8Gb SAN Switch

   - For information on how to zone the IBM Flex System FC5022 16GB SAN Scalable switch, see the Fabric OS Administrator's Guide at the following link:

     http://ibm.brocadeassist.com/public/FabricOSv7xRelease

To locate the software documentation from this website:

a. Select the documentation tab at the top of the page.

b. Select All Operating Systems in the Download by field.

b. Select **Fabric Operating Systems (FOS)**.

c. Select **Fabric Operating Systems (FOS) 7.0.0 Manuals** from the list.