Creating an image repository

Prerequisites:

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. 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 domai*n or *Adding a chassis to an existing Flex System Manager management domain*

- If you are using Linux Kernel-based Virtual Machine (KVM) as the image repository, one X-Architecture compute node with RHEL 6.x installed on it that will serve as the image repository.

  For information about installed RHEL 6.x on an X-Architecture compute node, see the "*Installing an operating system on an X-Architecture compute node*" quick start guide.

  Note: This compute node must also be configured for SAN connectivity.

- The SAN for storage and the SAN for the storage pool are configured

- Storage arrays and SAN switches are discovered and inventoried.

Steps:

Complete the following steps to create an image repository on your compute node:

1. 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.
2. Select the Plug-ins tab on the Home page.
3. Click **VMControl**.
4. Install and prepare the VMControl agent software on the image repository server:
   a) Discover and unlock your image repository server using the IBM Flex System Manager interface.
   b) Ensure that your image repository server is properly connected to your storage devices. For example, if you're using an IBM Storwize® V7000 storage device, it needs to be zoned and masked to your image repository server. For more information on storage configuration, see the following topic:

      In the information center:
      http://pic.dhe.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8731.doc/com.ibm.director.storage.helps.doc/fqm0_t_sm_configuring_storage.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 resources

c) If needed, download and install the Common Agent on your image repository server. If you're using an X-Architecture compute node for your image repository, complete the steps in the *Installing Common Agent* quick start guide, which is available at the following location:

http://pic.dhe.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.commontasks.doc/commontasks_managing_hw.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→ Quick start guides→ Managing hardware

Note: If you're using a Power Systems compute node for your image repository, the Common Agent is already installed.

d) If you are working with a NIM repository on a Power Systems compute node, complete the following steps:

1) On the VMControl page in the IBM Flex System Manager user interface, click the Basics tab.
2) In the Common tasks box, click **Install agents**.
3) Click the link for the Common Agent Subagent Packages to see a list of available subagents.
4) Select CommonAgentSuagent_VMControl_NIM-2.4.2 and click **Add**.
5) Select your image repository server from the list and click **Finish**.
   Note: If you don't see your image repository server in the list, make sure you have discovered it.
6) Run a full inventory collection on the image repository server. By doing this, you make it a candidate for an image repository in the next steps.

For issues related to common agents, see the following topic:

In the information center (Internet):
http://pic.dhe.ibm.com/infocenter/director/pubs/topic/com.ibm.director.tbs.helps.doc/fqm0_r_tbs_ibm_director_agent.html

5. Create an image repository:
   a) On the VMControl page, click on the Virtual Appliances tab.
   b) In the Common tasks box, click **Create image repository**.
   c) Follow the instructions in the wizard to define the repository name, the target system, and the appropriate storage pool.

Where to go for more information:

For more information about image repositories, see the following topics:

Creating and discovering image repositories for KVM
In the information center (Internet):
http://pic.dhe.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8731.doc/com.ibm.director.vim.helps.doc/fsd0_vim_c_learnmore_repositories_kvm.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 virtualized resources→ VMControl→ Managing virtual appliances and workloads→ Creating and discovering image repositories→ Creating and discovering image repositories for KVM

Creating and discovering image repositories for AIX, IBM i, and Linux on Power Systems
In the information center (Internet):
http://pic.dhe.ibm.com/infocenter/flexsys/information/topic/com.ibm.acc.8731.doc/com.ibm.director.vim.helps.doc/fsd0_vim_c_learnmore_repositories_lop.html

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IBM Flex System information→ Management devices and solutions→ IBM Flex System Manager management node→ Managing virtualized resources→ VMControl→ Managing virtual appliances and workloads→ Creating and discovering image repositories→ Creating and discovering image repositories for AIX, IBM i, and Linux on Power Systems