

Creating a virtual server on an IBM Flex System compute node

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 installed in a chassis and is managing the devices in that chassis, which include one or more compute nodes that have been discovered by the IBM Flex System Manager management node. For more information, 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*
- If you are using Power Systems compute nodes:
 - Virtual I/O Server (VIOS) is already installed on the compute nodes
 - You have completed the steps associated with the chassis and with virtualized Power Systems environments in the *Checklist for setting up virtualization* quick start guide.
- If you are using X-Architecture compute nodes, the hypervisor is installed on the compute nodes.
Note: X-Architecture compute nodes for VMWare orders include an ESXi on USB key.
- All storage is on the local hard drive of the compute node.

Steps:

Complete the following steps to create a virtual server on an IBM Flex System compute node.

Note: The virtual server will not have an operating system installed.

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. On the Home page, select the Plug-ins tab.
3. Select **VMControl**.
4. If you are working with X-Architecture compute nodes, discover the virtual host that serves as the hypervisor on the compute node.

Note: This step is not required for Power Systems compute nodes.

For X-Architecture compute nodes, the virtual host that is installed on the compute node must be discovered and you must request access to it.

Use the following references as a guide to assist with discovery and request access to the virtual host on the compute node:

- Deploy support and requirements in a KVM virtualization environment

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_r_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→Planning for VMControl→Supported virtualization environments→Linux Kernel-based Virtual Machine (KVM) requirements and support

- VMware requirements and support

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_r_vmware_vcenter.html

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- Windows Server 2008, Enterprise, Standard, and Datacenter x64 Editions with Hyper-V role enabled requirements and support

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_r_hyper_v.html

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5. Find the target host on the VMControl Virtual Servers and Hosts view:
 - a) On the VMControl page, select the Virtual Servers/Hosts tab.
 - b) You see a list of hosts and the virtual servers that are on them.
 - c) If the host you want is not showing in the list, search the table to find the host where you want to create a new virtual server.
6. Create the virtual server

Note: Some steps for creating a virtual server vary by virtualization environment. The information here is common to the task for creating a virtual server for all hypervisors. Use the help links in the Flex System Manager user interface to learn more about the settings that are available for your platform.

- a) Right-click on the name of the host and select **System Configuration**, then **Create Virtual Server**.
- b) Navigate through the Create Virtual Service wizard to create the virtual server. Use the following links and the Learn more... links provided on the wizard pages in the user interface to get more detailed information.

- Creating a virtual server.

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_t_creating_virtual_server.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 servers→Creating a virtual server

- Managing virtual servers.

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_t_managing_virtual_servers.html

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