

# Deploying IBM StoredIQ on Microsoft Hyper-V

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As an alternative to installing on an ESX server, the IBM StoredIQ gateway, data server, and application stack can be installed on Microsoft Hyper-V. This option is not supported for the Elasticsearch virtual appliance.

Installing IBM StoredIQ on Microsoft Hyper-V requires the use of third-party software. For the procedure described here, the following software prerequisites must be met:

- Microsoft Hyper-V Manager must be installed on a Windows system.
- 7-zip for Windows or tar for the Linux operating system must be available to extract contents of the OVA.
- 7-zip for Windows or gunzip for the Linux operating system must be installed to decompress the vmdk.gz file.
- Microsoft Virtual Machine Converter 3.0 (Windows) or qemu-img (Linux) or must be installed to convert the files from VMWare .vmdk files to Hyper-V .vhdx files.

Microsoft Hyper-V does not support OVAs and OVF. The virtual machine needs to be built manually.

Consider the following instructions a sample procedure. The instructions might differ depending on the version of the third-party software.

Complete these steps for the gateway, the data server, and the AppStack:

1. Extract the vmdk file from the OVA.
  - a) Download the OVA.
  - b) Extract the contents of the OVA by using 7-zip for Windows or tar for the Linux operating system.
  - c) Decompress the vmdk.gz archive by using 7-zip for Windows or gunzip for Linux.
  - d) Delete everything except the vmdk file when the OVA extraction is complete.
2. Convert the VMWare .vmdk file to a Microsoft Hyper-V .vhdx file.
 

For instructions about converting .vmdk files to .vhdx files, see the following links:

  - [Use Microsoft Virtual Machine Converter](#)
  - [Using qemu-img](#)
3. Build a virtual machine.
  - a) Select **New Virtual Machine** > **Next** from Hyper-V Manager.
  - b) Enter the name of the virtual machine in the **Specify Name and Location** window and click **Next**.
  - c) Select **Generation of the machine** in the **Specify Generation** window.
  - d) Enter the startup memory in the **Assign Memory** window.
  - e) Select the correct network in the **Configure Network** window and click **Next**.
  - f) Select **Use an existing virtual hard disk** in the **Connect Virtual Hard Disk** window. Search the disk location, select one of the primary disks, and then click **Next**.
  - g) Click **Finish**.
  - h) Repeat these previous steps for all IBM StoredIQ disks.

4. Optional: Add disks.

- a) Select a virtual machine in Microsoft Hyper-V Manager.
- b) Select the settings for the virtual machine under **Actions**.
- c) Select the IDE controller and highlight Hard Drive in the **Settings** window.
- d) Select Hard Drive and virtual hard disk and click **New**.
- e) Click **Next** in the New Virtual Hard Disk wizard.
- f) Select **VHDX** in Choose Disk Format and then click **Next**.
- g) Select **Dynamically expanding** in Choose Disk Type and then click **Next**.
- h) Enter a name for the disk in the **Specify Name and Location** window and then click **Next**.
- i) Select **Create a new blank virtual hard disk** and enter a size in the **Configure Disk** window and then click **Finish**.
- j) Repeat this procedure for all additional disks.

Complete the installation process by following the instructions in “Configuring IBM StoredIQ” on page 22.