# IBM Hyper-Scale Manager version 1.6 Quick Start Guide for installation as a Virtual Appliance



This quick start guide is for installing the IBM Hyper-Scale Manager VM and using it with the IBM Storage XIV Management (XIV GUI).

This is an \*.ovf installable virtual appliance for VMWare hypervisor.

This installation type is intended for storage administrators who are not familiar with Linux and can use VMWare resources in their organizations.

Almost no prerequisites are needed, as you cannot access the OS shell by running prepared scripts using a main menu. Almost everything is configured automaticallythrough a wizard, to make the installation easier.

## 1: Installing the IBM Hyper-Scale Manager VM

Before configuring the IBM Hyper-Scale Manager, you must install the virtual machine. This installation deploys the *ovf* image of the IBM Hyper-Scale Manager on your VMWare ESX.

- 1. Prepare a virtual machine (these specifications are also listed on the IBM Hyper-Scale Manager Release Notes):
  - Memory and vCPU:
    - Up to 60 XIV systems 4 GB; dual core
    - 61-100 XIV systems 6 GB; quad core
    - 101-120 XIV systems 6 GB; six core
    - 121-144 XIV systems 8 GB; six core
    - ESX Server versions 4, i4, 4.1, i4.1, i5
  - VM disk size 76 GB

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- Ports that need to be opened:
  - Outbound/Inbound: RMI 1199-1209
  - Inbound only: SSH/SCP 22
  - Outbound only: SMTP 25
    - Communication with XIV systems 7778
    - o RESTful API port 8443
- Allowed latency between the IBM Hyper-Scale Manager and the XIV systems it monitors: max of 200 ms
- Maximum number of GUI concurrently connected to one server 15
- Maximum number of XIV Systems administered by one server 144
- 2. The installation procedure needs the following information. Record it in the space provided:
  - Networking configuration: You can either work with DHCP or with Static IP.
    - If you work with Static IP, prepare an IP Address and netmask, and a gateway and DNS parameters related to the static IP.
    - Hostname
    - A new password for 'root' (default password: xivmsRoot)
    - NTP servers (if any)
    - SMTP address (not mandatory)
- 3. Download <u>IBM-Hyper-Scale-Manager</u> <version>.zipfile.
- Unzip the file to a local PC that has access to the VMWare vSphere client.
- 5. Fine-tune the VM resources according to the specifications in step 1.
- 6. Deploy the \*.ovf file supplied in the ZIP using Deploy OVF Template in the ESX vSphere Client. Follow the link for instructions (steps 1-11 only).

Notes:

- The virtual machine consumes 76 GB of free space.
- You may see some warnings related to compatibility. Ignore them and approve.
- 7. Power on the VM.
- 8. On the VMWare console, login with user=root, password=xivmsRoot. The wizard opens on screen.
- 9. Complete the steps in the next section.

## 2: Configuring the IBM Hyper-Scale Manager on the VM

The wizard welcome screen guides you through the steps of the configuration.

- 1. Click Enter to view the IBM Hyper-Scale Manager license agreement. Click 1 to approve, or 2 to decline.
- 2. Change the 'root' password.
- 3. Set up the network configuration. Configure with Static IP or DHCP.
- 4. Set up the NTP and regional settings.
  - a. Optionally, set the timezone.
  - b. Change the date & time. As an alternative, add an NTP server.
- 5. Set up the SMTP connectivity. Enter the SMTP server address and SMTP server port and approve.

- 6. The IBM Hyper-Scale Manager is now installed and configured.
- 7. Please provide the IBM Hyper-Scale Manager IP Address / hostname to the Storage Administrator.
  - IP address \_\_\_\_
  - Hostname \_\_\_\_\_

#### 3: Initializing the IBM Hyper-Scale Manager Inventory

This step is for the XIV storage administrator.

Ensure that you have the IBM Hyper-Scale Manager server IP Address / hostname.

- 1. Export a list of the XIV systems that you are currently using:
  - If you have a previous version of IBM XIV GUI, export the list from the Systems > Export Systems File dialogue on the GUI
  - If you do not have an IBM XIV GUI, proceed to step 2.
- 2. Install the IBM XIV GUI 4.5.
- 3. Launch the GUI in Direct mode by selecting **direct** on the Mode field of the Login screen (direct mode is connecting an XIV system directly to the GUI).
- 4. Connect the XIV GUI to the IBM Hyper-Scale Manager through the Systems > Preferences dialogue.
- If you have exported the systems list on step 1 (above), open the Systems > Import Systems File to import the systems list. Otherwise, add the systems / groups manually. You can add both through the Systems > Manager Configuration > Inventory dialogue.

The default Manager Access Code is adminadmin.

You are ready to work with your XIV GUI using the IBM Hyper-Scale Manager to enjoy Multi-System features.

#### More information

The complete set of installation instructions is available on the <u>IBM Hyper-Scale Manager for Virtual Appliance Version 1.6</u> website. This user guide and all other XIV documentation are available on the Knowledge Center: <u>IBM® XIV® Storage System Knowledge Center website</u>

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