

IBM XIV Storage System Management Tools
IBM Hyper-Scale Manager
Version 1.5.1.33

Release Notes



First Edition (February 2015)

This edition applies to IBM Hyper-Scale Manager version 1.5.1.33 and to all subsequent releases and modifications until otherwise indicated in new editions. Newer document editions may be issued for the same product version in order to add missing information or amend typographical errors. The edition is reset to 'First Edition' for every new product version.

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Release Notes

These release notes are for the IBM® Hyper-Scale Manager version 1.5.1.33.

Release date

11 February 2015

Supported microcode releases

This version supports all IBM XIV® releases.

The IBM Hyper-Scale Manager reduces operational complexity and enhances capacity planning through integrated management for large and multi-site XIV deployments. The Management Tools:

- Shifts the paradigm to an integrated management of XIV Systems across the enterprise
- Provides powerful health monitoring by integrating events and alerts across the managed XIV Systems

About IBM Hyper-Scale Manager

IBM Hyper-Scale Manager was previously named IBM XIV Multi-System Manager.

Compatibility

XIV GUI 4.4.1.1 is compatible with IBM Hyper-Scale Manager version 1.5.1.33.

Features we would like you to know of

This section goes over the IBM Hyper-Scale Manager major features that are enabled by being connected to a IBM Hyper-Scale Manager.

Upgrade from the GUI

The IBM Hyper-Scale Manager can be upgraded from the GUI. Whenever you upgrade the GUI and launch it for the first time, you will be asked to upgrade the IBM Hyper-Scale Manager as well.

Manager configuration

In order to manage the IBM Hyper-Scale Manager configuration from the GUI, go to **Systems > Manager Configuration**. There you can change the Manger Access Code and the System Machine Account (see related chapters on the user guide, available on the IBM XIV Information Center <http://publib.boulder.ibm.com/infocenter/ibmxiv/r2/index.jsp>).

Lightweight, fast installation

Minimal number of steps from the Installer, rest of the steps from the GUI. A detailed description of the installation process can be found in the user guide.

```

-----
----- IBM Hyper-Scale Manager v1.x.x.x -----
-----

Welcome to the IBM Hyper-Scale Manager installation procedure.

This setup will guide you through the installation process.

Required Steps
-----
Step 1: License Agreement
Step 2: Password Change
Step 3: Networking
Step 4: NTP & Regional Settings
Step 5: SMTP

Proceed? [Y/N] >

```

Central inventory for all GUI users

The IBM Hyper-Scale Manager provides a central inventory for all GUI users with a smart permissions engine.

```

Manager Inventory Configuration
-----
IBM Hyper-Scale Manager is running

1) System Inventory List
2) Add System
3) Modify System
4) Remove System
5) System Monitoring Suspend
6) System Monitoring Resume
7) Re-authenticate All Users
8) Change System Machine Account
9) Manage System Certificates
10) Exit
Your Selection>1
-----

```

Name	Addresses	Status	Id
Gen3P3-127	Gen3P3-127,,	Invalid configuration	Gen3P3-127::null:null
Gen3p2-95	Gen3p2-95,,	Full Redundancy	Gen3p2-95::null:null
Gen3P2-93c	Gen3P2-93c,,	Full Redundancy	Gen3P2-93c::null:null
XIV Gen3p2-99	Gen3p2-99b,,	Full Redundancy	XIV Gen3p2-99:1310099:2810:114
Gen3P2-38c	Gen3P2-38c,,	Authentication Failure	Gen3P2-38c::null:null
XIV Gen3P3-132	Gen3P3-132b,,	Full Redundancy	XIV Gen3P3-132:1310132:2810:214
XIV Gen3P2-69	Gen3P2-69,,	Full Redundancy	XIV Gen3P2-69:1310069:2810:114
Gen3G-07a	Gen3G-07a,,	Redistributing	Gen3G-07a::null:null
XIV MN00011c	MN00011c,,	Connection Error	XIV MN00011c:MN00011:2810:A14
XIV MN00041	MN00041,,	Full Redundancy	XIV MN00041:MN00041:2810:A14
Gen3P2-66	Gen3P2-66,,	Communication Loss	Gen3P2-66::null:null
Gen3G-09	Gen3G-09,,	Loading...	Gen3G-09::null:null
Gen3P3-131	Gen3P3-131,,	Full Redundancy	Gen3P3-131::null:null
XIV Gen3P2-83	Gen3P2-83,,	Full Redundancy	XIV Gen3P2-83:1310083:2810:214

Management Tools documentation set

The documentation for this release of the IBM Hyper-Scale Manager contains instructions for each installation type and an operations guide that is common to both.

Virtual Appliance installation

- Installation Guide for Virtual Appliance
- Quick Start Guide for Virtual Appliance

Application installation

- Installation Guide Application
- Quick Start Guide for Application

IBM Hyper-Scale Manager

These documents are common to both installation types.

- Operations Guide
- IBM Hyper-Scale Manager Release Notes

XIV GUI

XIV GUI Release Notes.

IBM Hyper-Scale Manager specifications

The two IBM Hyper-Scale Manager installation types require two sets of specifications. Following these sets there is a third set, for specifications that are common to both installation types.

Note: The installation instructions are available in the Installation Guides and Quick-Start Guides.

Standalone application

1. The installation is done on a 64-bit RHEL 6 (and up) OS.

Note: For best performance, install the IBM Hyper-Scale on an independent server.

2. Disk space:
 - At least 1 GB of free space in the /tmp directory
 - 76 GB free space under the installation path (the path is configurable, and does not have the home directory)
3. CPU and Memory allocation:

Table 1. Standalone application CPU and Memory allocation per machines/objects

Specifications	Dual-core/4Gb	4 cores/6Gb	6 cores/6Gb	6 cores/8Gb
# of machines	up to 40	up to 80	up to 120	up to 144
# of objects	up to 80K	up to 120K	up to 180K	up to 220K

Virtual Appliance memory and CPU

The Virtual Appliance deployment runs as a virtual application above an ESX server (VMWare Hypervisor only).

- An ESX (VMware) Server that hosts the IBM Hyper-Scale Manager, versions: 4, i4, 4.1, i4.1, i5
- VM disk size - 76 GB

This deployment comes with 4 GB memory and dual core vCPU, by default. Immediately after the deployment, revise the specifications according to the number of XIV systems you will manage by the IBM Hyper-Scale Manager:

Table 2. Virtual Appliance CPU and Memory allocation per machines/objects

Specifications	Dual-core/4Gb	4 cores/6Gb	6 cores/6Gb	6 cores/8Gb
# of machines	up to 40	up to 80	up to 120	up to 144
# of objects	up to 80K	up to 120K	up to 180K	up to 220K

Other specifications

Ports

- Outbound/Inbound: RMI - 1199-1209
- Inbound only: SSH/SCP - 22
- Outbound only: SMTP - 25
 - Communication with XIV systems - 7778
 - RESTful API port - 8443

Latency

Allowed latency between the IBM Hyper-Scale Manager and the XIV systems it monitors: maximum of 200 ms.

Concurrently connected GUI clients to an XIV system

Maximum number of GUI clients connected to an XIV system that can concurrently send requests to the IBM Hyper-Scale Manager is 15.

Administered XIV systems

Maximum XIV Systems that are administered by one server is 144 (up to 12 groups with 12 systems each).

Fixed issues

UI-265216

This release of the XIV GUI addresses the CVE-2015-0235 issue, also known as the "GHOST vulnerability".

For more information, refer to <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0235>.

UI-264572

This release of the XIV GUI addresses the CVE-2014-3566 issue, also known as the "POODLE SSL vulnerability". SSL V3 is disabled in this version to avoid the POODLE vulnerability.

Known issues - Virtual Appliance installation

MSM-256723

After upgrading the IBM Hyper-Scale Manager, a logged-in vSphere client (using 'root' user) does not see the updated menu and version.

Workaround

Select option 17) Exit on the root menu to logoff. When you log in again, the IBM Hyper-Scale Manager main menu and version are updated correctly.

Severity
Moderate

Affected versions:
Version 1.1 onward

Known issues - all installation types

MSM-261090

The IBM Hyper-Scale Manager can't monitor a pre-11.2.0 XIV system that is configured with LDAP, with an *xiv_msms* user that is configured both internally and in the LDAP.

Workaround

1. Disable LDAP on the specific XIV system.

```
ldap_mode_set mode=inactive
```

2. Delete the *xiv_msms* user which is defined internally.

```
user_delete user=xiv_msms
```

3. Re-enable LDAP.

```
ldap_mode_set mode=active
```

Severity
Moderate

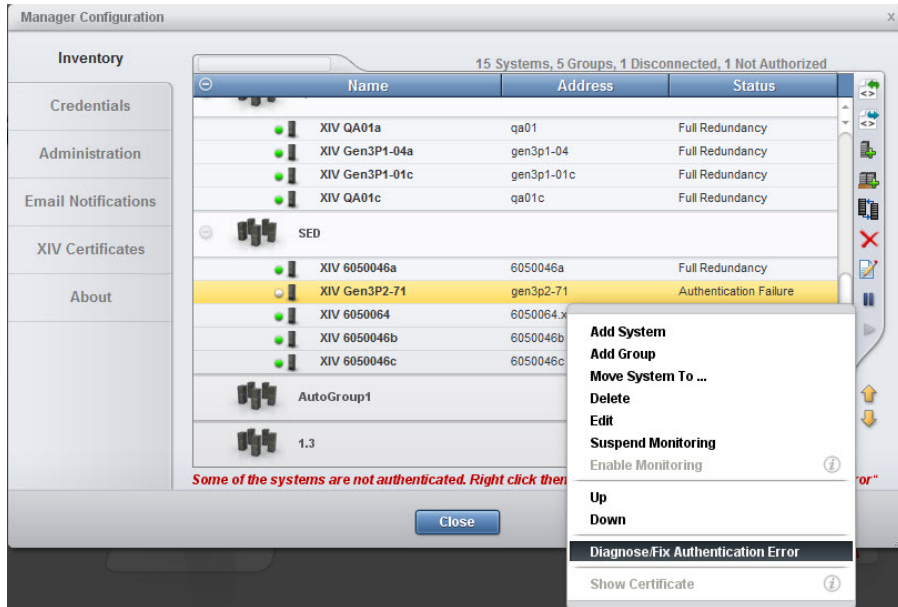
Affected versions:
Version 1.1 and up

MSM-261538

Disabling LDAP on an XIV system may cause an authentication failure on all of the systems that are configured to this LDAP.

Workaround

1. Select **Systems > Manager Configuration** from the XIV GUI menu.
2. Type the **Manager Access Code**.
3. Select the **Inventory** tab.
4. Select and right-click the systems whose status is **Authentication Failure** and click **Diagnose/Fix Authentication Error** on the menu.



Severity

Moderate

Affected versions:

Version 1.5

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Contacting IBM Support

The release is supported via:

Voice calls

Will come into Level 1 or Front Line Support as they do for the current product.

Customers will use the appropriate support phone number for their respective countries; refer to the World Wide Directory for the support numbers by country. <http://www.ibm.com/planetwide>

Documentation format

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