Oracle® Fabric Manager
Release Notes

Part No.: E52314-02
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Contents

Using This Documentation

This document provides late-breaking information and known issues about Oracle Fabric Manager.

Related Documentation

Documentation	Link
All Oracle products	http://www.oracle.com/documentation
Oracle Virtual Networking	http://www.oracle.com/goto/Oracle-Virtual-Networking/docs
Oracle Solaris 11 OS	http://www.oracle.com/goto/Solaris11/docs
Oracle Fabric Interconnect	http://www.oracle.com/goto/FABRIC-INTERCONNECT/docs

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Late-Breaking Information

These topics provide late-breaking information and known issues about Oracle Fabric Manager.

What's New in This Release

Oracle Fabric Manager contains the following new features and functionality:

- Support for Oracle Fabric Monitor 1.2.0. For information about this product, refer to the *Oracle Fabric Monitor 1.2.0 User's Guide* and release notes.
- Support for Oracle Java 1.7_*x*. This is the minimum version required to run this version of Oracle Fabric Manager and related features. To support Oracle Java 1.7_*x*, you will use a different upgrade procedure. Refer to the installation chapter in the *Oracle Fabric Manager User's Guide.*
- Support for upgrading to newer versions of Oracle Fabric Manager on Oracle Solaris servers. Through a new upgrade procedure, an Oracle Fabric Manager server running on Oracle Solaris can now be upgraded to support this version of Oracle Fabric Manager software. For information about the upgrade procedure for Oracle Fabric Manager running on an Oracle Solaris server, refer to the installation chapter in the *Oracle Fabric Manager User's Guide.*

- Support for PVI vNICs in default VLAN zero. In previous versions of Oracle Fabric Manager, PVI vNICs were created in default VLAN 1. In this release, PVIs are created in default VLAN zero, which is congruent with the default VLAN used by XgOS.
- Usability enhancements in the GUI, including job status messages when vNICs are being removed through the Physical Server details page.
- Fixes were added. For more information, see "Fixed Issues in the Oracle Fabric Manager GUI" on page 15.

Note – You can configure and manage Oracle fabric devices (the Oracle Fabric Interconnect or the Oracle SDN Controller) through either Oracle Fabric Manager or the XgOS CLI. The choice of using either Oracle Fabric Manager or XgOS is completely up to you. However, some considerations exist for using both XgOS and Oracle Fabric Manager to configure or manage certain features.

Minimum Requirements

These topics document system requirements for the Oracle Fabric Manager, such as server operating systems and browsers that Oracle Fabric Manager supports.

▼ Ensure That Oracle Fabric Manager Servers Are DNS-Resolvable

After Oracle Fabric Manager is installed, it attempts a DNS lookup to identify hosts, Oracle fabric devices, and other Oracle Fabric Manager servers. As a result, the DNS lookup must be able to resolve in order to support Oracle Fabric Manager functionality. This requirement is especially important for HA Oracle Fabric Manager deployments.

You can always explicitly add DNS information by following this procedure:

1. **After installing the Oracle Fabric Manager, log in to the Oracle Fabric Manager server (not the Oracle Fabric Manager GUI).**
2. **Edit the** `conf/xms.properties` **file.**

3. **Set the** `xms.ha.hostname` **property to a valid setting of name and IP address.**

4. **Use the name or IP addresses added to** `conf/xms.properties` **in the URL for connecting to Oracle Fabric Manager servers, adding Oracle fabric devices to Oracle Fabric Manager, and so on.**

   Assuming routing is configured correctly and appropriate network tables are up-to-date, the DNS lookup should be successful.

Operating Systems

Oracle Fabric Manager is supported by loading the Oracle Fabric Manager software on a host server, which then acts as the Oracle Fabric Manager server to provide graphical management of Oracle fabric devices, servers, and virtual resources. Oracle Fabric Manager is supported on any of the following host server platforms.

- Oracle Linux 6 Update 3, 4, and 5 (64-bit architecture)
- Red Hat Enterprise Linux and equivalents starting with release 5 update 2
- Microsoft Windows Server 2008 (32- or 64-bit architectures)
- Microsoft Windows Server 2008 R2
- Microsoft Windows 2012
- Microsoft Windows 2012 R2
- Oracle Solaris 11.1 (x86 architecture)
- Oracle Solaris 11.2 (x86 architecture)

In addition to these hosts, Oracle Fabric Manager can run in a Linux or Windows virtual machine in a VMware ESX server.

Minimum Browsers Supported

For interoperability with Oracle Fabric Manager, minimum supported browsers include:

- Mozilla Firefox 2.0, with all cumulative security updates.
- Microsoft Internet Explorer 7.0, with all cumulative security updates. Any version of Internet Explorer less than 7.0 is not supported.
- Java Runtime Environment (JRE) 1.7

For best results, use a minimum screen resolution of 1280 x 900 DPI when using Oracle Fabric Manager starting with version 3.0.0.

System Limitations and Restrictions

These topics document system limitations and restrictions for this release of Oracle Fabric Manager.

Oracle Fabric Manager Can Restore Only Configurations Backed Up From the Same Version

This version of Oracle Fabric Manager might contain new objects that were not present in older versions. As a result of these new objects, any Oracle Fabric Manager configuration backed up in an older version of Oracle Fabric Manager might not be able to be restored in the new version. Configurations backed up in the new version of Oracle Fabric Manager can be restored in the new version.

▼ Restore a Configuration

Follow this procedure if you need to restore the old configuration—for example, in the unlikely event of an error during upgrade to this version of Oracle Fabric Manager:

1. **If Oracle Fabric Manager is currently installed, completely uninstall it.**
2. **Install the old version of Oracle Fabric Manager.**

   Make sure that the old version matches the version of the backed-up configuration.
3. **Restore the old configuration.**
4. **Upgrade Oracle Fabric Manager to the new version.**

To Enable a LUN Mask, You Must Specify It at vHBA Creation Time

To enable a LUN mask on a vHBA, make sure that the LUN mask exists and is available to the vHBA at vHBA creation time. If a vHBA does not have a LUN mask associated with it at the time the vHBA is created, the Allow LUN mask option is disabled for that vHBA, which prevents adding and enabling a LUN mask on the vHBA later.

Oracle Fabric Manager Assumes Ownership of QoS, LUN Masks, and Default Gateways

When Oracle Fabric Manager is used to configure or manage virtual resources, it assumes ownership of the following aspects of virtual resources by design:

- Network QoS
- SAN QoS
- LUN masks
- Default Gateways
- Private vNICs

Therefore, if you attempt to configure or manage the listed features from the XgOS CLI, the changes will occur successfully on the Oracle fabric device, but will not propagate to Oracle Fabric Manager. The end result is that you will not see the configuration changes if you are managing the Oracle fabric device(s) through Oracle Fabric Manager. If you will be using the listed features in your data center, use Oracle Fabric Manager to configure them if Oracle Fabric Manager is your virtual I/O management platform. By doing so, you ensure that configuration changes to the listed features will be displayed in the GUI.

For vNICs, vHBAs, and all other features, you can mix configuration and management through the XgOS and Oracle Fabric Manager.

Oracle Fabric Manager Requires Specific Ports to Be Available

Be aware that Oracle Fabric Manager requires the following ports to be open and available:

- Ports 8880 and 8443 must be open for incoming traffic. If not, remote access to Oracle Fabric Manager will not be permitted. Other methods of connecting will still be supported (for example, RDP to the Oracle Fabric Manager Server).
- Port 22, 443, and 6522 must be open for outgoing traffic to support communication with other Oracle fabric devices (Oracle Fabric Interconnects and/or Oracle SDN Controllers).
- Port 80 must be open if you are running Oracle SDN Controller version 1.0.0 or XgOS 3.9.x or earlier with this version of Oracle Fabric Manager. If you are running Oracle SDN 1.0.1 with Oracle Fabric Manager, port 80 is not used for traffic.

If these ports are blocked or otherwise not available to Oracle Fabric Manager, configuration will not occur, and tables and other dialogs will not contain any data. For example, attempting to scan for fabric devices or servers will cause no fabric devices or servers to be displayed.

In addition to ports, after installing the Oracle Fabric Manager software, ensure that IP Forwarding tables are updated to allow connection to the Oracle Fabric Manager server.

Supported Upgrade Paths

Note – Upgrade paths are supported starting from Oracle Fabric Manager 4.0.0. If you want to upgrade from a version earlier than 4.0.0, upgrade to at least version 4.0.0, then upgrade to the latest version of Oracle Fabric Manager.

These topics document the upgrade paths supported for this release of Oracle Fabric Manager.

- "Oracle Fabric Manager Server OS" on page 6
- "Oracle Fabric Manager Plugins" on page 7

Oracle Fabric Manager Server OS

All upgrade paths are supported on the following operating systems:

- Oracle Linux 6 Update 3, 4, and 5 (64-bit architecture) from 4.2.0 to this version of Oracle Fabric Manager
- Windows Server 2008 (32-bit and 64-bit architectures) from Oracle Fabric Manager 4.0.0, 4.1.0, 4.1.1, and 4.2.0 to this version of Oracle Fabric Manager
- Windows Server 2008 R2 from Oracle Fabric Manager 4.0.0, 4.1.0, 4.1.1, and 4.2.0 to this version of Oracle Fabric Manager

- Windows Server 2012 from Oracle Fabric Manager 4.2.0 to this version of Oracle Fabric Manager
- Red Hat Enterprise Linux 5 (64-bit distributions) from Oracle Fabric Manager 4.0.0, 4.1.0, 4.1.1, and 4.2.0 to this version of Oracle Fabric Manager

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Note – When upgrading from an older version of Oracle Fabric Manager to a newer version, clean up any completed jobs from the Job Summary in the old version of Oracle Fabric Manager software before upgrading. For more information, see "Upgrade the Oracle Fabric Manager Software" on page 9.

Oracle Fabric Manager Plugins

The following upgrade paths for Oracle Fabric Manager plugins are supported:

- From Oracle Fabric Manager version 4.0.0 to this version:
  - Upgrading Oracle Fabric Monitor plugin 1.0.2 to 1.1.0 is supported.
  - Upgrading Oracle VMware Integrator plugin 1.0.0 to 1.0.1 is supported.
- From Oracle Fabric Manager version 4.1.0 and 4.1.1 to this version:
  - Upgrading Oracle Fabric Monitor plugin 1.1.0 to 1.1.0 is supported.
  - Upgrading Oracle VMware Integrator plugin 1.0.0 to 1.0.1 is supported.

Downloading Oracle Fabric Manager Software

You can download Oracle Fabric Manager software from the Oracle Support portal. To download Oracle Fabric Manager, you need access to the Oracle support site. You can request a user name and password for the Oracle Support Portal by contacting Oracle Technical Assistance through any of the methods documented in "Support and Accessibility" on page vi in this document's Preface.

Note – Certain upgrade paths are supported in this release of Oracle Fabric Manager. For information, see "Downloading Oracle Fabric Manager Software" on page 7.

This topic contains information about:

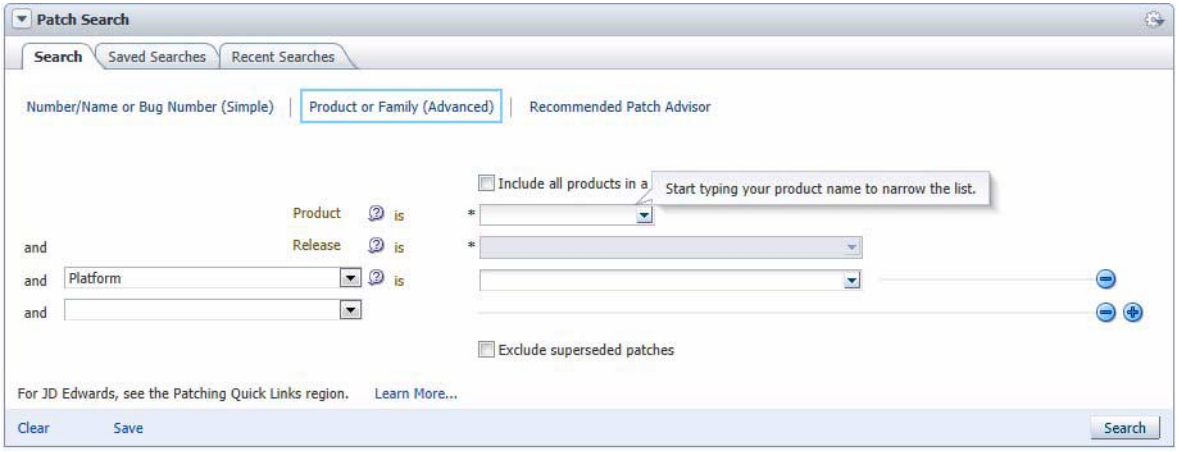
- "Download Software" on page 8

■ "Upgrade the Oracle Fabric Manager Software" on page 9

▼ Download Software

You can get software for this version of Oracle Fabric Manager from My Oracle Support:

1. **Go to** `support.oracle.com` **and log in to display the MOS Dashboard.**
2. **On the Dashboard, click the Patches and Updates tab.**
3. **In the Patch Search tab, click Search→Product or Family to display the search dialog.**



4. **In the Product is field, type "Oracle Fabric Manager."**

   This field will autofill when enough characters are entered to make the string unique.

5. **In the Release is field, type "4.3.0".**

   This field will also autofill.

6. **Click Search.**

   The list of available software files that match the search criteria is displayed.

7. **Click the row containing the 4.3.0 software and select** `Download the software onto the Fabric Manager server`**.**

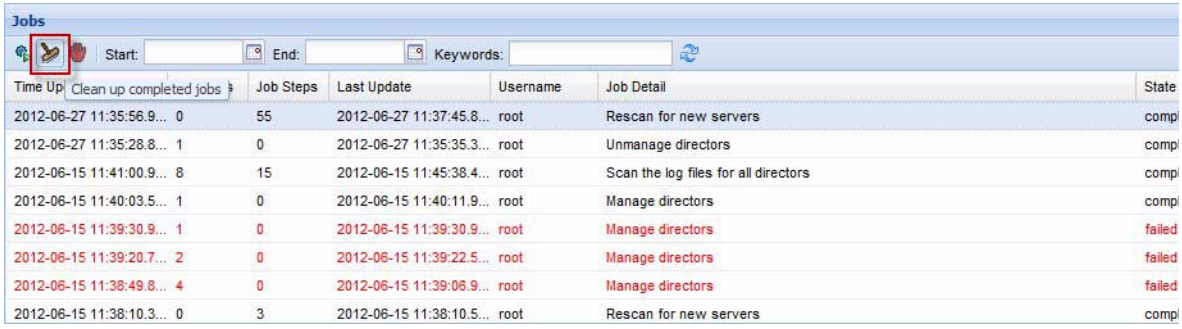
8. **When the new Oracle Fabric Manager software is on the Oracle Fabric Manager server(s), install it by using the method listed for the Oracle Fabric Manager's server:**
   - Running `pkgadd -d` command (Oracle Solaris)
   - Running the `rpm -ivh` command (Oracle Linux native and Red-Hat compatible)
9. **Double-click the Oracle Fabric Manager Windows executable.**

   Refer to the chapter about installation in the *Oracle Fabric Manager User's Guide.*

▼ Upgrade the Oracle Fabric Manager Software

If you are upgrading from a previously installed version of Oracle Fabric Manager to the current version, it is a best practice to delete any old jobs from the Jobs Status summary before upgrading to the newer version. Doing so ensure removes the old jobs from the database and ensures a streamlined upgrade.

1. **In the older version of Oracle Fabric Manager, display the Jobs Summary (General→Jobs Status→Clean Up Completed Jobs).**



2. **When all jobs are cleaned up, log out of Oracle Fabric Manager.**
3. **Proceed to** "Download Software" on page 8**.**

Known Issues

This topic lists the known problems in this release of Oracle Fabric Manager. For known problems in any of the Oracle Fabric Manager plugins, check the product notes that accompanied your plugin.

Bug ID	Description
18498518	**Scanning for Oracle SDN Controllers Does Not Add them to Oracle Fabric Manager** When you use the Scan for New SDN Controllers feature, a problem in the xdiscoverd process prevents the SDN Controller from being added to the Oracle Fabric Manger GUI. In addition, the names of some of the Oracle SDN wizards are incorrect.
18778436	**After Re-Terminating a vNIC on a Different Port on an ESX Server, the vNIC Takes a Long Time to Come Online** After upgrading to this version of Oracle Fabric Manager, if you change a vNICs termination port on an ESXi 5.5 server, the vNIC takes a long time to come completely online. Eventually, the vNIC gets to `up/up` state, but be aware that it might take longer than expected. This problem does not occur on Linux or Windows servers.
17462951	**HTTP 404 Error if Oracle Fabric Manager Server Is Not DNS Resolvable** Oracle Fabric Manager HA must have DNS-resolvable host names. If not, a problem can cause an HTTP 404 error and the Oracle Fabric Manager GUI will crash and you will not be able to log in. **Workaround:** You can work around this issue by making sure that DNS is functioning correctly in the network, and that all Oracle Fabric Manager servers have DNS-resolvable names.
17462646	**Traffic Statistics for PVI vNICs and PVI Clouds Can Show as Zeroes** Due to the way that traffic moves through a PVI Cloud (traffic does not enter or exit the fabric device, statistics gathered for traffic on PVIs shows as zero. Be aware that statistics for PVI vNICs and PVI Clouds will show as zero.
17442189	**Upgrading Oracle Fabric Manager Through `setup.exe` Does Not Delete Desktop and Menu Shortcuts Left From Previous Version** On Oracle Fabric Manager servers running on Microsoft Windows, using the executable to upgrade to Oracle Fabric Manager 4.2.0 does not predictably remove the menu and desktop shortcuts for the previously installed version of Oracle Fabric Manager. As a result, it is possible to have multiple shortcuts for the software. **Workaround:** You can work around this problem by explicitly deleting the previous shortcuts.
17408027	**LAGs With More Than One Port Can Show Only One Member Port** If you configure a LAG of more than one port, then check the IO Port Detail page of the Topology summary, the ports are not displayed as part of the LAG.

Bug ID	Description
17386969	**After Upgrading Oracle Fabric Manager, Page Errors Can Occur When Installing Multiple Plugins Sequentially** The Oracle Fabric Manager server running on Microsoft Windows can experience a page error when installing multiple plugins in series. When this problem occurs, the plugin is not successfully installed, and no data is displayed on the page. This problem can occur if you are upgrading to this version of Oracle Fabric Manager from the previous version. **Workaround:** You can work around this problem by uninstalling the previous version of Oracle Fabric Manager and performing a fresh install of the new version of Oracle Fabric Manager.
17378976	**Possible Race Condition While Logging in Multiple Times While a Plugin Is Being Installed** A race condition can occur if you install a plugin (for example, the VMware Integrator plugin) and log in a second time while the plugin is being installed. When this problem occurs, the plugin will be in installing state indefinitely in Oracle Fabric Manager's plugin summary. **Workaround:** You can work around this problem by removing the plugin from the Oracle Fabric Manager plugin Summary, then re-adding it while making sure not to log in to Oracle Fabric Manager during the plugin installation.
17372903	**Two I/O Templates Applied to the Same Dual HCA Server Can Combine Into One, Preventing Use of the Two Templates as Individual Objects** When two templates are applied to the same dual-HCA server, the I/O templates get merged together into one template. At this point, the I/O profiles derived from the two templates are no longer able to be applied individually to specific servers. For example, assume you had I/O template 1A and I/O profile 1AA created from it. Also, assume you have I/O template 2A and I/O profile 2AA created from it. When you apply the two templates to a dual-HCA server, they merge into one template. If you then edited one of the I/O profiles (for example, 2AA), that profile will no longer be selectable to reapply to the server because the template used to create I/O profile 2AA no longer exists.
17366210	**Speedometer on the Oracle Fabric Manager Dashboard Can Stay Pegged at Zero** A problem can cause the performance speedometer on the Oracle Fabric Manager dashboard to remain at zero. This problem can occur due to multiple requests being made, sometimes because of a timing problem between Oracle Fabric Manager and the browser that leads to time-outs and retries. The time-outs and retries continue to process, leading to a constant stream of requests that, in turn, never allow the speedometer to complete sampling and display the throughput. As a result, the speedometer stays at zero due to the constant stream of uncompleted requests.
17359505	**Bootable vNIC Can be Assigned to Wrong I/O Template on Dual HCA Servers With Two I/O Templates** On dual HCA servers, if you create two I/O templates and each one has a bootable vNIC, a problem can cause the bootable vNICs to become assigned to the other I/O template. For example, assume you create `I/O_Template_1` with bootable vNIC `BV1`, and `I/O_Template_2` with bootable vNIC `BV2`. When you assign these I/O templates to a dual HCA server, the Oracle Fabric Manager GUI might show one of the bootable vNICs as "true" and the other as "false," even though both vNICs should be marked "true," since they are both bootable vNICs.

Bug ID	Description
17333149	**Resources Appear to Be Removed While Reapplying I/O Templates to Dual HCA Servers** When reapplying I/O templates to dual HCA servers, all resources are removed from the I/O templates. However, the I/O profiles derived from those templates remain in Oracle Fabric Manager, even though their I/O templates are removed during the reapply process. Also, the resources used by the server profile will still be present.
17310539	**Topology-Page Connections Are Not Drawn Between Oracle Fabric Devices and PVI Clouds** In the Topology overview and some of the different topology pages, a display problem prevents the connections (lines) between fabric devices and PVI clouds from being displayed on the page. This problem is a display problem only. The actual vNICs connected to the PVI clouds are actually connected, despite what is shown in the topology pages.
17305445	**Unpredictable Termination of vNICs and PVI Port When Reapplying an I/O Template to a Dual-HCA Server** After reapplying an I/O template to a server with one or more dual HCAs, the termination of vNIC and PVI ports can be unpredictable, which can lead to additional server profiles being created on fabric devices, or a vNIC getting stuck in `up/unassigned` or `up/resourceUnavailable` state due to the vNIC not being re-applied to the expected termination.
17155908	**While Connecting an I/O Profile to a Server, the Server Is Displayed as Available When it Is Actually Busy** If the Oracle Fabric Manager server is busy connecting an I/O profile to a server, the user interface still shows the same server as available for more operations even though it is busy. User interface objects also show that the server is available even though it is really busy and cannot accept additional operations, such as connecting another I/O profile, until the current job has completed. **Workaround:** Wait for 10 seconds or more after each I/O profile connect operation before attempting a new operation.
17086315	**I/O Profiles Merged and Saved in Configuration Are Split Apart, and HA vNICs and vHBAs Are Split Into Single/Non-HA Objects** If you have created two I/O profiles and connected them to a dual-port HCA, Oracle Fabric Manager merges them together into one I/O profile. When you back up the current configuration, the merged I/O profile is saved. However, when you restore the backed-up configuration, a problem causes the two I/O profiles to split apart into two separate I/O profiles. Also, any HA vNICs or HH vHBAs in the I/O profile become unpaired and are represented as single vNICs or vHBAs. **Workaround:** After restoring a configuration with merged I/O profiles, be aware that you will need to reconnect those I/O profiles to the dual-port HCA so that the I/O profiles are remerged.
17059047	**Dual HCA Servers Allow Both iSCSI and SAN Boot Profiles to Be Attached to Each HCA Which Can Lead to Incorrect Boot Image** For servers with dual HCA cards, Oracle Fabric Manager enables you to create and apply one I/O profile with an iSCSI boot Profile and one I/O profile with a SAN boot profile. In this case, Oracle Fabric Manager should allow only one I/O profile type to be attached to the server, but a problem allows both the iSCSI and SAN boot profiles to be attached. Because Oracle Fabric Manager does not allow only one I/O profile type to be attached, you can boot off of either, which can make the server's boot source and OS image not consistent.

Bug ID	Description
16337855	**Version Mismatch Messages Are Displayed When Using Some Older Versions of Oracle Fabric Manager and Oracle Fabric Monitor** If version 1.0.2, 1.0.1, or 1.0 of Oracle Fabric Monitor is installed on an Oracle Fabric Manager 4.0.2 (or earlier) server, and you then upgrade to Oracle Fabric Manager 4.1, the Oracle Fabric Monitor 1.0.2 software is uninstalled from the Apps folder in the navigation frame, and the Installed Apps Summary shows the software present, but with a "version mismatch" in the Status column. At this point, Oracle Fabric Monitor 1.0.2 is unusable. **Workaround:** Uninstall the Oracle Fabric Monitor 1.0.2 software and install the Oracle Fabric Monitor 1.1.0 software.
16337563	**One I/O Template With Six or More PVI vNICs Each Terminated on Its Own PVI Cloud Can Prevent Creation of an I/O Profile From That Template** If you have an I/O template with six or more different PVI vNICs, and each vNIC is terminated on its own PVI cloud, a problem can prevent successful creation of an I/O profile from that template. In rare circumstances, when that template issued to create an I/O profile, one of the PVI vNICs does not get the right PVI network termination, and the I/O profile creation job is listed as failed.
16337500	**Statistics Gathering and Display Is Unpredictable if Each Oracle Fabric Manager Server in an HA Pair Is in a Different Time Zone** In a high-availability Oracle Fabric Manager setup with Oracle Fabric Monitor installed, both of the HA servers must be configured with the same time zone. If not, the gathering and display of statistics (which are based on internal time stamps) can become unpredictable.
16336757	**Inconsistent Display of Newly Unmanaged PVI vNICs Compared to Other Unmanaged Objects in Oracle Fabric Manager** If a PVI is `up/up` when an Oracle fabric device is unmanaged, Oracle Fabric Manager does not display the PVI with a red X to indicate that the PVI is no longer managed. Be aware that this behavior is different than for other objects that become unmanaged, such as I/O templates.
16336735	**Unmanaging, Then Remanaging, an Oracle Fabric Interconnect Through Oracle Fabric Manager Can Prevent Some Server Groups From Being Displayed When the Oracle Fabric Interconnect Is Back Online** In the Server Cloud view of the Oracle Fabric Manager Topology, a problem can cause not all Sever Groups to be displayed after an Oracle Fabric Interconnect is unmanaged, then remanaged. This problem occurs when no servers are present in the Server Group. **Workaround:** If you will be unmanaging, then remanaging an Oracle Fabric Interconnect when Server Groups are configured, make sure to note the server groups before unmanaging an Oracle Fabric Interconnect. After the Oracle Fabric Interconnect is remanaged, you can then re-create any missing server group.

Bug ID	Description
16336725	**I/O Profiles With HA vNICs or HA vHBAs Cannot Reconnect if One Server and One Oracle Fabric Interconnect Are the Only Devices Managed by Oracle Fabric Manager** In a single chassis, single-server connection deployment, if an I/O profile with HA vNICs or HA vHBAs is created from an I/O template, Oracle Fabric Manager attempts to connect the I/O profile but cannot. As a result, some of the I/O profiles will get assigned and some will not because HA connectivity is not supported on a single chassis with a single-server connection, which introduces a possible single point of failure. **Workaround:** Create two separate vNICs and two separate vHBAs directly from the physical server instead of from the I/O template, then merge them into an HA vNIC and an HA vHBA. • **For vNICs**: Server Resource Manager→Physical Server details→vNICs tab→Convert a pair of vNICs into an HA vNIC • **For vHBAs**: Server Resource Manager→Physical Server details→vHBAs tab→Convert a pair of vHBAs into an HA vHBA
16336574	**On Some GUI Pages, You Can Enter More Characters in the `Description` Field Than Can Be Displayed** There is currently no validation for the `Description` field. Because the text has no character limit, the field can be longer than the displayable area in the `Description` text box in the GUI. As a result, you might not be able to read the entire description in the `Description` text box. This issue occurs on the following pages: • Resource domains • Schedules • Storage Clouds • Network Clouds • Gateways • Server Groups • I/O Templates • I/O Profiles
16336399	**Rarely, Oracle Fabric Manager and Oracle Fabric Interconnects Get Out of Sync While Jobs Are in Progress and One of the Oracle Fabric Interconnects Is Rebooting** On one occasion, Oracle Fabric Manager and the Oracle Fabric Interconnects it was managing got out of sync while I/O profiles were being deleted, and at least one of the Oracle Fabric Interconnects was being rebooted. **Workaround:** If you encounter this rare occurrence, restart the Oracle Fabric Manager service to fix the problem.

Fixed Issues in the Oracle Fabric Manager GUI

Bug ID	Description
19293583	**Checksum Offload Is Now Configurable on PVI vNICs** In previous versions of Oracle Fabric Manager, PVI vNICs could not be created with checksum offload configured. This release now sports creating PVI vNICs with checksum offload enabled or disabled.
18537647	**PVI vNICs Are Now Created in the Default VLAN (VLAN 0)** In previous versions of Oracle Fabric Manager, PVI vNICs were created in default VLAN 1 instead of default VLAN zero (0), which is the default VLAN used by XgOS.
17475083	**The Topology Page for Storage Targets Was Displayed for Oracle SDN Network Controllers** When using only an Oracle SDN Controller in Oracle Fabric Manager, the Topology page erroneously displays the Target view option. This option is for storage targets, and therefore, is an invalid option for the Oracle SDN Controller's network-only deployment.
17454073	**Servers Were Displayed Connected and Available, Even When Oracle Fabric Devices Were Unmanaged Through Oracle Fabric Manager** When all Oracle Fabric Interconnects (or Oracle SDN Controllers) have been unmanaged, the Physical Servers Board on Oracle Fabric Manager's Dashboard still showed servers connected and available instead of showing no servers under management by Oracle Fabric Manager.
17448215	**SNMP Security Was Not Applied to Users** When attempting to apply a security protocol to an SNMP user, a problem prevented the protocol from being successfully applied.
17442397	**After Upgrading, the `xsigoadmin` User Must Be Manually Deleted** After upgrading from Oracle Fabric Manager version 4.1.0 or earlier, the `xsigoadmin` user is available, but cannot be used to log in to Oracle Fabric Manager. After upgrading, you should delete the `xsigoadmin` user through Oracle Fabric Manager's users tab, leaving only the `ofmadmin` default user.
17372661	**Improper Restrictions on Editing Objects Controlled by the `storage` Role** A user who was assigned the role of `network`, `storage`, or `operator` (or any combination thereof) was able to edit Boot Profiles. This error occurred in the default or nondefault domain.
17372575	**The I/O Templates Tab Was Missing From the Boot Profiles Page** In the Boot Profiles Details page, no I/O templates tab was present in earlier versions of Oracle Fabric Manager software. This tab is now present.

Bug ID	Description
17339297	**Server Was Not Displayed During an I/O Template Rebind Operation if the Server's I/O Template Contained any Edited, Then Reapplied, LUN Masks** A problem prevented the display of a server that was being rebound to an I/O template, if that template had a LUN mask that was edited and reapplied to a server.
17304564, 16338270	**Fixed Job Status for I/O Templates With vNICs Supporting TSO on GbE I/O Modules That Did Not Support TSO** Clean up of Job Status information when you applied an I/O template with a vNIC supporting TSO to a GbE I/O Module that did not support TSO. The same fix is applied when creating a TSO vNIC on a module that does not support TSO.
17280711	**Display Length Problem in GUI Page When Using Oracle SDN Controllers** When using Oracle SDN Controllers, a display problem caused the version string to span across multiple columns on the General tab of the Oracle SDN Controllers Details page.
17227510	**SAN QoS Page Contained an Illogical Column** On the SAN QoS page → vHBAs tab, a column was displayed for Oracle SDN. This column was removed because Oracle SDN does not use vHBAs or SAN QoS.
17226969	**Some Versions of Firefox Caused Scroll Bars to Obscure Some Text on the Download Oracle Fabric Manager Log Files Page** When downloading log files through Maintenance→Download Oracle Fabric Manager Log Files, sometimes a horizontal scroll bar is sometimes displayed over some of the dialog text when using some versions of Mozilla Firefox.
17172250	**Decreased Wait Time for Removing vNICs and vHBAs From Their Respective I/O Clouds** A usability fix to shorten the wait time for removing a vNIC or vHBA, which at 10 seconds, was too long. Now, the I/O cloud is periodically checked on a much quicker interval.
16475040	**Deleting Last Port/LAG on a Network Cloud Caused Re-Termination of vNICs Across Other Available Ports** When multiple vNICs were configured across ports and LAGs in a Network Cloud, if you deleted the last port/LAG on the cloud, vNICs were re-terminated across other available ports in the cloud instead of the vNIC being deleted and not re-terminated.
16444771	**Correctly Enforce Enabling and Disabling the *OVCA* Button Depending on the Version of Oracle Fabric Manager** On the Ethernet Ports/LAGs tab, the OVCA button might not be not disabled, but should be depending on the version of Oracle Fabric Manager you are running. If your version of Oracle Fabric Manager does not support OVCA functionality and you click the OVCA button, an error is displayed even though the button is still active.
16338254	**The Group Name Field Did Not Accept Regular Expressions on the Group Role Mapping and Group Domain Mapping Pages** On the Group Role Mapping page, the Group Name field did not accept regular expressions. Also, on the Group Domain Mapping page, the Group Name field did not accept regular expressions.

Bug ID	Description
16338198	**Fixed Validation Checking for I/O Template Editor's `Save As` Function for Network and Storage Clouds** In previous versions of Oracle Fabric Manager, the I/O template Editor's Save Network Cloud As or Save Storage Cloud As functions allowed unpredictable values, which sometimes led to a page display error.
16338184	**Fixed Validation Checking for Some Fields in Phone Home Feature** When configuring the Oracle Fabric Interconnect's Phone Home feature through Oracle Fabric Manager, some fields on the Phone Home dialog accepted incorrect inputs in previous releases.
16338179	**Fixed Display Problem for SAN Boot and iSCSI Boot Profile Names on I/O Template Editor** In previous versions of Oracle Fabric Manager, the SAN Boot/iSCSI Boot profile names are not displayed on the I/O template editor's *Select Template* window.
16338120	**Get Log Files Through Oracle Fabric Manager Failed in Large Deployments** In larger deployments (for example, when 100 servers were connected to a single Oracle Fabric Interconnect), attempts to get log files through Oracle Fabric Manager GUI failed.
16338116	**Correctly Disable *Edit* Button for Bound Default Gateway** In previous versions of Oracle Fabric Manager, the Edit button was erroneously enabled for a default gateway that was already bound to an I/O profile. Now, when a gateway is bound, the Edit button is disabled.
16338102	**Fixed Validation Checking for Prune Interval and Prune Jobs Older Than Parameters on Change Job Status Dialog** On the Change Job Status dialog, the Prune Interval and Prune Jobs Older Than parameters accepted negative values, and incorrectly computed fractional values. These parameters now accept integers equal to or greater than 1.
16338100	**Removed System Generated File From System Cleanup Wizard** Editing and removing a template caused a system-created template to display in the wizard *System Cleanup* wizard. The system-created file no longer appears.
16338058	**Fixed Inconsistencies With Disabling and Enabling vNICs and vHBAs in the Default Cloud** Behavioral inconsistencies between vNICs and vHBAs in the default I/O cloud have been fixed. Now, enabling or disabling functions for vNICs in the default Network Cloud more closely match the enabling or disabling functions for vHBAs in the default Storage Cloud.
16338056	**Fixed Validation Checking for Some Fields on Create New SNMP Trap Destination Dialog** While adding an SNMP trap destination, some fields on the Create New SNMP Trap Destination dialog accepted invalid values which sometimes led to a page error.
16338045	**Fixed Validation Checking for Host Name Field for Adding a New Active Directory Server** While adding a new Active Directory server, the *Host Name* field accepted invalid values in previous versions of Oracle Fabric Manager.
16338043	**Fixed Validation Checking for Host Name and RADIUS Server Name Fields for Adding a New RADIUS Server** Host Name and RADIUS Server Name fields accepted invalid values in previous versions of Oracle Fabric Manager.

Bug ID	Description
16337900	**MAC-Based QoS Lists Had No Way to Determine the Traffic Direction to Which the QoS Profile Was Applied** The MAC-Based QoS list did not have a *Direction* column for configured profiles. Consequently, after a MAC-Based QoS profile created, you could not determine whether the profile applied to ingress or egress traffic, or both. A *Direction* column has been added.
16337882	**Correctly Enforce the Ability to Edit the Names of Bound LUN Mask Profiles** In previous versions of Oracle Fabric Manager, the LUN mask Profile Name field was not editable when it was not bound to an I/O template or an I/O profile.
16337740	**Correctly Enforce the Disabled State of Two Options in the Cleanup Database Wizard** In previous versions of Oracle Fabric Manager, the *Restore Selected* and *Flush Selected* options were not disabled by default in the *Cleanup Database* wizard.
16337734	**Deleting Ports From Ethernet LAG Summary Presented No Confirmation Dialog** In previous versions of Oracle Fabric Manager, it presented no confirmation dialog when you deleted ports from the Ethernet LAGs Summary page. A confirmation dialog has been added to this release.
16337697	**Source Ports, Clouds, LAGs, vNICs and vHBAs Were Not Displayed When Changing Their Destination** Enhancement to the Job Details when changing terminations for ports, clouds, LAGs, vNICs and vHBAs. Now, the Job Details show both the source and destination port, cloud, LAG, vNIC, or vHBA, instead of just showing the new destination.
16337620	**Restore Oracle Fabric Manager Was Not Enabled by Default on the Maintenance Menu** In previous versions of Oracle Fabric Manager, the Maintenance→Restore Oracle Fabric Manager option was disabled by default. Now, this option is enabled by default.
16337599	**Non-Default Users Could Create Backup Schedules in Their Specific Domains, but Could Not Take On-Demand Backups** A nondefault user created by the default-domain admin was not able to take backup of the Oracle Fabric Interconnect from the Fabric Interconnect summary page even though the nondefault user could create backup schedules.
16337558	**In HA vNICs, the Secondary vNIC Should not Be Created Through the GUI in One Case** With two Oracle Fabric Interconnects and one server, when you created an HA vNIC with the primary and secondary interface each on a different chassis, connecting the secondary vNIC to the server was not allowed through the GUI. Instead, the Oracle Fabric Manager CLI was required to connect the second vNIC to the server.
16337543	**HA Oracle Fabric Manager Server Names Could Not Accept an Underscore** In previous versions of Oracle Fabric Manager, names for Oracle Fabric Manager HA hosts could not contain an underscore.
16337511	**While Migrating vNICs or vHBAs Between Servers, Server Icons Were Not Displayed** In previous versions of Oracle Fabric Manager, no icons were displayed for servers while migrating their vNICs or vHBAs.

Bug ID	Description
16337357	**Enhanced Enforcement of Domain Deletion Permissions** Fixes for Resource Domains tab including enhancing the domains table and more predictably enforcing the permissions for deleting domains.
16337207	**Enforcement of Consistent Config Backup Locations for Active and Passive Oracle Fabric Manager Servers in HA Configuration** The Oracle Fabric Manager user interface did not prevent configuring a different backup location for the active server and the passive server. If both servers used different backup locations, the same backup configuration might not be used, which prevented high availability Oracle Fabric Manager functionality from working predictably.
16337194	**Enhanced Popup Dialog's Text for Deleting a vNIC** Enhanced the text for the popup message when deleting a vNIC.
16337936	**Fixed Partial List of Server Groups When Deleting Them** When multiple server groups were selected for deletion, the confirmation popup did not display all the server groups you intended to delete.
16337930	**Weekly Backup Schedules Could Not be Changed to Daily Backup Schedules After They Were Created** In previous versions of Oracle Fabric Manager, after creating a weekly backup schedule, you could not later edit that schedule to change it to a daily backup schedule.
16337821	**Editing an HA Oracle Fabric Manager Configuration and Clicking** *Submit* **Without Making Any Changes Forced a Logout** In previous versions of Oracle Fabric Manager, when you edited an HA Oracle Fabric Manager configuration and made no changes, you were logged out when you clicked **Submit**.
16337631	**Changing the Size of Objects Displayed on the Topology Page Appeared to Work, but the Changes Were Not Saved in the User's Profile** On the Users and Roles tabs, if you edited the *Topology Scale* parameter to increase or decrease the sizes of objects on the Topology pages, the new value was not applied even after you saved it in the user's preference.
16337608	**Clarification to Popup Text When Adding a GbE I/O Module to Different NonDefault Domains** Fixes to the resource domains, including clarifying error text in the popup when incorrectly adding the same I/O module to different nondefault domains.
16337144	**Fix for Overlapping Objects on Template Editor Page** A display problem was fixed for multiple resources on the I/O template Editor page. When you scrolled down to see other resources, those resources overlapped their resource names at the top of the page. Consequently, you could not easily determine the correct name for a specific resource. This problem affected I/O Clouds and their names also.
16336891	**Improved Usability When Handling Incorrect Credentials When Logging In to Oracle Fabric Manager** Enhancements to the Login page that more efficiently handle clearing the username and/or password fields when incorrect credentials are provided and log in attempts fail.

Bug ID	Description
16336818	**Domain Boundary Enforcement Checking Has Been Improved** A problem did not properly enforce domain boundaries for non-root users. Consequently, domain users could access other specific domains where they should not have had permissions.
16336741	**Improved Connection of Higher-Numbered I/O Profiles When a Large Number of Small I/O Profiles Existed** When a large number of single I/O profiles existed, connecting some of the higher numbered I/O profiles sometimes failed.
16336720	**Fix for `storage` Role Being Appended When Other Roles Were Edited, Then Saved** When network, compute, or compute roles were configured, then edited, Oracle Fabric Manager erroneously appended the storage role to the first role that was edited.
16336716	**HA vNICs Created Could Be Incorrectly Reterminated in Oracle Fabric Manager if the vNICs' I/O Profiles Were Originally Created Through XgOS** In an HA Oracle Fabric Interconnect environment, a problem prevented the correct retermination of HA vNICs if a server's I/O profiles were created through the XgOS CLI.
16336633	**HA vHBAs Were Split Into Two Separate vHBAs After Oracle Fabric Interconnects Were Unmanaged, Then Remanaged Through Oracle Fabric Manager** If you unmanaged and remanaged the Oracle Fabric Interconnect while HA vHBAs were deployed on a server, the HA vHBA was split into two separate vHBAs at the conclusion of the remanage operation.
16336511	**Enhancement to `get-log-files` For Total Number of Devices In Use** Added a small Oracle Fabric Manager backup file to provide numbers of devices in use (but not sensitive information such as names and addresses) when the `get-log-files` operation is run.
16336213	**I/O Template Creation Was Affected by Creating a Gateway for Two Oracle Fabric Interconnects With the Same Name** During I/O template creation, if a gateway was created from two Oracle Fabric Interconnects with the same name, Oracle Fabric Manager saw the Oracle Fabric Interconnects as the same device and displayed only one of them. Consequently, you could not determine which Oracle Fabric Interconnect you were using.
16335965	**Added Company-Specific Icons for Usability** Added icons to the Topology page for new server OS and hypervisor types, including Oracle Linux, Oracle Solaris, and Oracle VM.

Fixed Issues in the Oracle Fabric Manager CLI

Bug ID	Description
17468041	**Added Command for Cleaning Up Offline Servers** Previous versions of the Oracle Fabric Manager CLI did not have a command to clean up the offline servers from the interface. The `system clean-offline` *server name*`|*` command is now available.
17392520	**In Nondefault Domains, a User's Role Did Not Actually Appear in the Output of the Command That Displays the Role** When a user's role was assigned in a nondefault resource domain, a problem prevented the user's domain name from being displayed when the `show user-role` *user-role Name* command was issued.
17392456	**vNIC Did Not Receive an Interface Address at Creation Time** When you created a static vNIC through the Oracle Fabric Manager CLI, the job completed successfully, but the vNIC did not receive the IP address.
17388423	**Command-Completion Help for Removing Ethernet Ports From a Specific Network Cloud Showed All Ports, not Just the Ports in the Specific Network Cloud** When a Network Cloud was configured with specific Ethernet port or LAGs, if you issued the `set network-cloud` *cloud-name* `remove ethernet-ports` command, a problem with command completion help caused all Ethernet port/LAGs to be displayed (not just the ports associated with that Network Cloud).
17387208	**The Total Count of vNICs and vHBAs in a Bound I/O Template Was Not Displayed** After applying an I/O template with vNICs and vHBAs to a server, a problem prevented the `show io-template template servers` command from displaying the count of vNICs and vHBAs deployed on the server.
17386619	**Added Command for Adding Oracle Fabric Devices** Previous versions of Oracle Fabric Manager CLI did not contain a command option for adding fabric devices.
17385247	**CIR Values Were Displayed for Network Clouds, Ethernet Ports, and LAGs When They Should Not Have Been** The available ingress and egress CIR values were displayed for Network Clouds and Ethernet ports or LAGs when you issued the `show network-cloud` *networkcloud-name* command or the `show network-cloud` *networkcloud-name* `ethernet-ports-lags` command.

Bug ID	Description
17363765	**Attempts to Set the SAN Boot Mount Type to `Direct/LVM` Actually Set the Mount Type to *Static*** A problem prevented creating a SAN Boot Profile with mount type `Direct/LVM`. When the problem occurred, the SAN Boot Profile was created with mount type `Static`.
16335858	**Fix for Silent Failure When Attempting to Add an Oracle Fabric Interconnect to Oracle Fabric Manager** If you added an Oracle Fabric Interconnect to Oracle Fabric Manager, but supplied the wrong login credentials, the Oracle Fabric Manager CLI did not display an error message. Consequently, this silent failure made it difficult to determine if the Oracle Fabric Interconnect was actually added to Oracle Fabric Manager.
16335793	**LUN Masks Created Through Oracle Fabric Manager CLI Could Not Be Deleted Through Oracle Fabric Manager GUI** LUN masks created through the Oracle Fabric Manager CLI owned the LUN mask and disallowed it from being deleted through the Oracle Fabric Manager GUI.
16335771	**Adding vNICs to, or Deleting Them From, an I/O Template Prompted No Confirmation Message** Previous versions of Oracle Fabric Manager CLI had no confirmation message when you added a vNIC to, or removed a vNIC from, an I/O template.
16335770	**Attempting to Delete a Nonexistent vNIC Prompted No Error Message** Previous versions of Oracle Fabric Manager CLI had no error message if you tried to remove a nonexistent vNIC.