

Oracle[®] SDN Controller 1.0.1

Release Notes



VIRTUAL
NETWORKING

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Oracle SDN Controller 1.0.1 Release Notes

This document contains late-breaking information about the Oracle SDN Controller version 1.0.1.

Note – The Oracle SDN Controller release 1.0.1 runs on an Oracle Linux 6.1 64-bit server with Linux kernel 2.6.39, and does not require an Oracle Fabric Interconnect chassis.

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Features Overview

Oracle SDN Controller brings high-speed Ethernet connectivity (Oracle PVI) to your current IB networks without additional hardware. Oracle SDN Controller extends from the software stacks of the Oracle Fabric Interconnect chassis. Oracle SDN Controller 1.0.1 is configured and managed with Oracle Fabric Manager 4.2.1, which provides a progressive UI for applying PVI clouds and vNICs.

For 64-bit support, and the security enhancements in the 1.0.1 release of Oracle SDN Controller, you will need to manage your Oracle Fabric Devices with Oracle Fabric Manager 4.2.1.

Key features in release 1.0.1 of Oracle SDN Controller include:

- Enhanced security for communication between the Oracle SDN Controller and other Fabric Devices
- Support for 64-bit Oracle Linux hosts. This 1.0.1 release of Oracle SDN Controller does not support 32-bit Oracle Linux hosts. For 32-bit Oracle Linux hosts, use release 1.0.0 of Oracle SDN Controller.

Hardware and Software Requirements

Each row of this table lists a hardware requirement and its associated software requirements.

Hardware	Software
Two Oracle SDN Controller servers with 4 GB RAM, 1.6 Ghz CPU, 40 GB disk space, and a standard HCA card.	Oracle Linux 6.1 64-bit, postgresql, postgresql-devel, httpd, httpd-devel, mod_ssl
Oracle Fabric Manager server. Oracle SDN Controller cannot run on the same server as Oracle Fabric Manager. This server does not require an HCA card.	Minimum version 4.2.1 for 64-bit support. Refer to the Oracle Fabric Manager 4.2.0 User's Guide at: http://docs.oracle.com/cd/E38500_01/
Host servers.	Oracle Linux, Oracle Virtual Machine, RHEL, ESXi, Windows. For PVI vNIC support: ESX4, ESX5, RHEL 6.2, Oracle Linux 6, all Oracle Virtual Machine versions. See "Minimum Host Driver Requirements" on page 3.
ConnectX DDR or QDR IB-HCA card per host server.	IB-HCA firmware (included in OEL 6.1)
An IB switch. Any IB switch is supported. No cable restrictions.	Open SM must be turned off on any IB switch, or anywhere else it is running in the network. Open SM must be turned on on the OSDN Controllers, and the active OSDN Controller negotiates to become the Infiniband subnet manager.

Minimum Host Driver Requirements

Host	Oracle Virtual Networking Driver Version
Oracle Linux	Oracle Linux 6 Update 3 or 4 (32- or 64-bit). Oracle Virtual Networking host driver version 5.0.7-LX. This driver supports Oracle Linux and Red Hat Enterprise Linux (RHEL).
Oracle Virtual Machine	Oracle Virtual Networking host driver version 3.7.3-OVM3.
RHEL	InfiniBand host driver: <code>kernel-ib-1.5.1-2.6.18</code> . RHEL 6 Update 1. Oracle Virtual Networking host driver version 5.0.0-LX.
ESXi	ESXi Server 5.x Update 0 (GA). Oracle Virtual Networking host driver version 5.1.0-ESX.

Known Issues

The following are known issues at the time of this release.

Fabric Name Disappears After Managing and Unmanaging Oracle SDN Controller (17486730)

After managing and unmanaging controllers, the fabric name might disappear against the PVI cloud.

Oracle SDN Controller Stats Show as Zero (17462646)

The statistics might show zero when adding PVI clouds and vNICs, and when passing traffic on a controller.

SNMP Secure Users Tab: Error While Selecting Protocol (17448215)

When you add a user and select SHA Authorization Protocol and enter other details, the Authorization Protocol and Privacy Protocol fields might display none.

Active to Passive Mode Change Failed (17437741)

The timeout for `SwitchControllerMode` is 30 seconds.

Workaround: Wait a few minutes. This process completes once the database is cleared.

vNICs on Hosts Are Not Removed When a Backup Is Restored (17380186)

Currently the host drivers do not support `sync_begin` and `sync_end`. A delete vNIC request might not reach the host until the drivers are restarted.

Unable to Edit MTU for PVI Cloud in I/O Templates Editor Page (17364748)

In the I/O Templates Editor Page, when you double-click a PVI cloud, the MTU option is disabled.

Workaround: Edit the MTU from the PVI Cloud Summary page.

Oracle SDN Controller Is Not Seeing Attached Hosts (17314164)

On two-port IB-HCAs, only port 1 is currently supported. If port 2 is used, the controller does not recognize attached hosts.

Some Objects Not Displayed in Oracle Fabric Manager Topology View (17310539)

PVI clouds terminated on Oracle SDN might not get displayed correctly in the Topology View page.

Workaround: To check the PVI clouds terminated on Oracle SDN, go to the Oracle SDN page and click on the Oracle SDN fabric and check the clouds in PVI Clouds tab.

Topology View Might Not Show Devices Correctly

This issue might occur after performing either of the two following tasks.

Host Server View

1. Manage controllers and PVI clouds on the fabric, and add vNICs.
2. Go to the Topology View page.
3. Double-click the server under the Servers and Server Groups to Fabric Devices Connection heading.

No icon appears in the Fabric Devices column. Only switches and physical servers are shown.

Controller Server View

1. Manage controllers and PVI clouds on the fabric, and add vNICs.
2. Go to the Topology View page.
3. Double-click the controller under the Servers and Server Groups to Fabric Devices Connection heading. The Fabric Device Detail to I/O Clouds connection page is shown.

No connection is displayed between the controller and PVI clouds.

Related Documentation

The following table lists documentation for the controller and related products located at: http://docs.oracle.com/cd/E38500_01/.

Information Provided	Title
Installation, upgrade, and initial configuration.	<i>Oracle SDN Controller User's Guide</i>
Configuration and management.	<i>Oracle Fabric Manager 4.2.0 User's Guide</i>
Configuration and management (32-bit Oracle SDN Controllers)	<i>Oracle SDN Controller Release Notes</i>
