

Oracle® Enterprise Manager Ops Center

Readme

12c Release 3 (12.3.3.0.0)

E59958-06

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Readme

This Readme file explains how to install and upgrade Oracle Enterprise Manager Ops Center 12c Release 3 (12.3.3.0.0).

Oracle Enterprise Manager Ops Center Readme includes the following:

- [Prerequisites](#)
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Prerequisites

See the Preparing Your Environment chapter in *Oracle Enterprise Manager Ops Center Installation for Oracle Solaris Operating System* or the Preparing Your Environment chapter in *Oracle Enterprise Manager Ops Center Installation for Linux Operating Systems* for prerequisite information.

The OCDoctor is a tool utility that is designed to check systems for installation prerequisites, troubleshoots issues, and tunes systems for the Oracle Enterprise Manager Ops Center installation. For more information, see the OCDoctor chapter in *Oracle Enterprise Manager Ops Center Administration*. The guide is available in the Oracle Enterprise Manager Ops Center Documentation Library at http://docs.oracle.com/cd/E59957_01/index.htm

Installation

See the *Oracle Enterprise Manager Ops Center Installation for Oracle Solaris Operating System* or the *Oracle Enterprise Manager Ops Center Installation for Linux Operating Systems* for installation and postinstall configuration instructions.

You can download these documents from the Oracle Enterprise Manager Ops Center Documentation Library at http://docs.oracle.com/cd/E59957_01/index.htm

Upgrade

You can upgrade to version 12.3.3.0.0 from version 12.3.2.0.0 or 12.3.1.0.0. If you are using version 12.3.0.0.0, you must first upgrade to 12.3.1.0.0 or 12.3.2.0.0. Versions 12.2.2.0.0, 12.2.1.0.0, and 12.2.0.0.0 can upgrade directly to version 12.3.0.0.0. You can upgrade to version 12.2.0.0.0 from version 12.1.3.0.0 or version 12.1.4.0.0.

See the *Oracle Enterprise Manager Ops Center Upgrade* for upgrade procedures.

You can download this document from the Oracle Enterprise Manager Ops Center Documentation Library at http://docs.oracle.com/cd/E59957_01/index.htm.

Uninstallation

You can uninstall the components of Oracle Enterprise Manager Ops Center.

See the Uninstalling and Unconfiguring section of the *Oracle Enterprise Manager Ops Center Administration* for uninstallation procedures.

You can download this document from the Oracle Enterprise Manager Ops Center Documentation Library at http://docs.oracle.com/cd/E59957_01/index.htm.

Known Issues

This section explains the known issues that you might encounter when installing, or upgrading to, Oracle Enterprise Manager Ops Center 12c and the possible workarounds available.

For information on known issues related to installation and postinstallation configuration, see the *Oracle Enterprise Manager Ops Center Release Notes*.

The following are known issues that you might encounter:

- [Too Many ASR Jobs Are Created When Upgrading Large Environments](#)
- [Oracle Linux Installer Does Not Check for Required Packages](#)
- [Initializing Oracle Solaris 11 Library Fails When Re-Using Existing Oracle Solaris 11 Library](#)
- [Deleted Oracle SuperCluster Rack Cannot Be Recreated](#)
- [Oracle Solaris 11.2 Import ISO Job Fails With 'Cannot Be Cast' Exception](#)
- [Association of Network to Oracle Solaris 11 Control Domain Job Fails With Unclear Results](#)
- [Oracle Solaris 10 Branded Zone Creation Fails: Global Zone Cannot Find OS Image](#)
- [Discovery of M6 Server Can Fail if PDOM Does Not Respond Correctly](#)
- [Adding Storage to an LDOM When NFS Base Disk is Not On Primary Leads to Job Error](#)
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- Newly Configured Network From Outside Ops Center Does Not Appear in the User Interface
- ILOM Hostname Is Displayed Instead of OS Hostname For Exadata Cell Asset Name
- The Power Status of ILOM Assets Sometimes Shows an Incorrect Status
- Execute Operation Is Not Enabled For Groups of Assets if One Asset Is Offline
- Unable to Use Console for Manually Created Zone in Agent-Managed Control Domain
- No Data in Storage Tab for LDOM
- Install Fails With Permission Error While Installing SUNWuces.pkg
- OS Provisioning From New Remote Proxy Controller Repeatedly Fails with HTTP 500 Error
- Service Request Tab Asks for MOS Credentials in Disconnected Mode
- Agentless Oracle Solaris 10 Branded Zones Show Incorrect Version in Sh(Solaris)OperatingSystem
- Oracle Solaris 11 Kernel Zones With the Same Hostid Are Correlated
- Kernel Zone Cannot be Deleted on a Control Domain With a Logical Domain Virtualization Controller
- Logical Domains Can Be Created Without Sufficient Memory To Run
- After Restoring, a Duplicate Enterprise Controller Appears in the User Interface
- During Restore, the Proxyadm Unconfigure -k Option Clears the Local Database
- Ops Center Cannot Properly Manage Non-Global Zones Created Using OpenStack
- Zstat Produces Excessive Amounts of Data in /var/adm/exacct/zstat-process
- Cannot Correlate Kernel Zone Instances if No Hostid in Kernel Zone Operating System
- OSP CDOM Manifest Does Not Have iSCSI Device Information
- USB VNIC Interfaces Are Not Filtered and Causes Various Issues
- Do Not Create an ETH Fabric for USB Interfaces
- Collision Guest Not Repaired After Host ID Change and Refresh
- Non-Global Zone Persistent Configuration Should Not Be Updated if Dynamic Reconfiguration Fails
- Database Migration From Local 12c to Remote 12c with Container Times Out
- Cannot Import the Latest X3-2 Firmware
- Update Management and Delete Asset Should Clear the Session
- Reinstalling Agent on an Oracle Solaris 10 Non-Global Zone May Fail if Truststore Directory is Not Removed
- LDAP User with Required Roles Unable to Upgrade From 12.2.2 to 12.3

- Kernel Zone Using Local Device on LDOM Guest Should Use Device Path Without Slice
- Limited Support for Oracle Linux 7.0 and 7.1
- Reverting to Earlier Version Without Reverting Customer-Managed Database Can Cause Issues
- Upgrading Java on Oracle Solaris 10 Control Domains and Logical Domains Causes Agent Communication Issues
- Ops Center 12.3.1 Solaris 10 Global Zone Shows Kernel Zone Create Action to be Available
- LUNs for Zone Storage Does Not Get Locked
- Add Assets Job Fails With Network Error
- Users and Groups Created by Ops Center Installation Not Specified
- Zones Using iSCSI Storage Are at Risk to Get Broken During Global Zone Reboot
- Create Kernel Zone Job Fails When Overriding CPU Model
- Ability to Create Kernel Zone Using Infiniband
- Java 7u95 Rejects by Default the MD5 Certificates
- Unable to Configure an Agent Using Latest Java 6 if Proxy Uses TLS Version 1.1
- proxyadm Configure\Start Fails on Java Warning: PICL (libpicl.so.1) is missing
- Dynamic Edition of a S10 Branded Zone Should Not Be Allowed in the User Interface
- Improve Error Message on Failed Hardware Discovery
- Kernel Zone Creation - IP Missing if Many Connections on the Same Global Zone Lower-link
- Kernel Zone Dynamic Add Network Does Not Set Network IP in Kernel Zone Operating System
- Swap Alarms False Positives
- Could Not Perform Operation After Automatic Recovery on LDOM Guests
- Mismatch in Vlan Tagging Information Shown on Network Dashboard and Details Tab
- After Upgrading the Primary Node in ECHA and Installing Version 12.3.2 on Standby Node, Configuring the Standby Node into ECHA (ha-configure-standby) Can Fail
- Proxy controller OFFLINE after rollback and subsequent upgrade
- Host ids for LDOMs should be 8 characters long
- After several days, EC gets stuck on waiting for connection to DB
- Ops Center fails to register with MOS starting with Java 8 Update 121 and newer
- No migration target available for selection to do Ldom guest migration on M8/T8

Too Many ASR Jobs Are Created When Upgrading Large Environments

When you upgrade large environments to version 12.2.0.0.0, too many Auto Service Request (ASR) jobs are created. In some cases the number of ASR jobs can reach the thousands.

Workaround

Disable ASR before beginning the upgrade, upgrade the software, then enable ASR.

1. Click **Administration** in the Navigation pane, then select the Enterprise Controller.
2. Click **Disable ASR** in the Actions pane.
3. Upgrade your environment.
4. Click **Administration** in the Navigation pane, then select the Enterprise Controller.
5. Click **Enable ASR** in the Actions pane.

Oracle Linux Installer Does Not Check for Required Packages

The installation does not check for the required packages such as `ksh` and `zlib.i686` on Oracle Linux.

Workaround

Install the `ksh` and `zlib.i686` packages before or after the Oracle Linux installation.

Initializing Oracle Solaris 11 Library Fails When Re-Using Existing Oracle Solaris 11 Library

When reusing an existing Oracle Solaris 11 Package Repository source during configuration of Oracle Enterprise Manager Ops Center, the Oracle Solaris 11 source repository step fails.

In the Storage Libraries section, when you click Initialize Oracle Solaris 11 Software Update Library and enter the URL, an error message is displayed and the job fails.

Workaround

Perform the following steps:

1. Delete the current Oracle Solaris 11 Library in the user interface.
2. Create a new library directory for the existing Oracle Solaris 11 Library contents.
3. Go to the existing library directory, then change to the Ops Center-created directory named for your UUID.
4. Copy or move the `<Library>/<UUID>/data/pkg5.repository` and `<Library>/<UUID>/data/publisher` files to the new library directory.
5. Initialize the library using the new directory.

Deleted Oracle SuperCluster Rack Cannot Be Recreated

If you have an Oracle SuperCluster system with one rack, and you remove the rack in the Oracle Enterprise Manager Ops Center UI, there is no way to recreate the rack.

Workaround

1. Delete all of the ILOMs of discovered servers within the Oracle SuperCluster.
2. Repeat the discovery of the Oracle SuperCluster system.
The rack and its server assets are added.
3. Add all remaining assets into the rack, using the **Place/Remove assets in Rack** and **Place/Remove PDU(s) in Rack** actions.

Oracle Solaris 11.2 Import ISO Job Fails With 'Cannot Be Cast' Exception

Importing ISO images of Oracle Solaris 11.2 intermittently fails with a "Cannot Be Cast" exception.

Workaround

Apply the workaround found in MOS Note 1663862.1: Memory Management Between ZFS and Applications in Oracle Solaris 11.2.

Association of Network to Oracle Solaris 11 Control Domain Job Fails With Unclear Results

In an environment with multiple Control Domains that are directly interconnected using statically allocated IPs, attempting to attach a new network can fail with an inconsistent error message. The job indicates that the network plumbing was successful, then fails with an error saying that one or more hosts were not plumbed correctly. The Control Domains are actually left in an intermediate state with a new VNIC, but no IP address assigned.

Solution

1. Log in to the Control Domain.
2. Remove the IP address. For example:

```
ipadm delete-ip <wrong_vnic>
```
3. Remove the VNIC. For example:

```
dladm delete-vnic <wrong_vnic>
```

4. Remove the virtual switch. For example:

```
ldm remove-vswitch <wrong_vswitch>
```

5. Log in to the Ops Center UI.
6. Select the Control Domain and click **Refresh** in the actions pane.

Workaround

Rerun the job, but provide IP addresses rather than using system-generated IP addresses.

Oracle Solaris 10 Branded Zone Creation Fails: Global Zone Cannot Find OS Image

If a Global Zone is in a private network and cannot directly access the Enterprise Controller, it cannot use ISO images stored in the Enterprise Controller library.

Workaround

Copy the ISO image to the target system and use the local copy.

Discovery of M6 Server Can Fail if PDOM Does Not Respond Correctly

If the PDOM hangs or is slow to respond during an M6 discovery, the system can be displayed as a generic server.

Adding Storage to an LDOM When NFS Base Disk is Not On Primary Leads to Job Error

When adding storage to a LDOM guest using a NFS library provided by an alternate root domain (not the primary), the CreateVirtDiskImage job fails in the Create Concrete task on the non-primary root domain.

Delete Oracle SuperCluster From Asset Tree Action Does Not Delete Assets

The Delete Rack action deletes the Oracle SuperCluster rack from the asset tree but does not delete assets such as servers, switches, or storage that belong to the rack.

Newly Configured Network From Outside Ops Center Does Not Appear in the User Interface

If you configure a private network on the OS level outside of Oracle Enterprise Manager Ops Center, and the OS instance is the Enterprise Controller OS which is not agent managed, the newly configured network does not appear in the user interface.

Workaround

Restart the Enterprise Controller.

ILOM Hostname Is Displayed Instead of OS Hostname For Exadata Cell Asset Name

On an Oracle SuperCluster system, in some cases the ILOM hostname is displayed instead of OS hostname for Exadata cells.

The Power Status of ILOM Assets Sometimes Shows an Incorrect Status

The power status of ILOM assets sometimes shows "Off" at Dashboard tab in the user interface, even though the current power status is "On".

When this occurs, the **Power On** icon in the Actions pane is active and the **Power Off** icon is inactive.

Execute Operation Is Not Enabled For Groups of Assets if One Asset Is Offline

The "Execute Operation" action is greyed out for groups of Operating System assets if at least one of them is in an unknown/offline state.

Workaround

Select the Operational Plan first and then select the group as a target.

Unable to Use Console for Manually Created Zone in Agent-Managed Control Domain

If you manually create a zone in an agent-managed control domain, the console access user is given an incorrect role and cannot access the console.

Workaround 1

The first workaround is to connect to the control domain console, then connect to the zone.

Workaround 2

The second workaround is to give the user the correct role.

1. Select **Administration** in the Navigation pane.
2. Click the **Roles** tab.
The Roles page is displayed.
3. Select the oemOCxxxx user from the list of users, where xxxx is a number set by the system.
4. Click the **Manage User Roles** icon.
5. Add the Zone Management role, then click **Next**.
6. The Summary page is displayed. Click **Finish**.

No Data in Storage Tab for LDOM

For an LDOM system, the Network Connectivity sub-tab in the Network tab shows no data, even though the Port Connectivity sub-tab correctly shows the ports.

Install Fails With Permission Error While Installing SUNWuces.pkg

An installation can fail during the Install application packages step when SUNWuces.pkg failed to install. This occurs when the "users" group is an LDAP managed group, not a local group.

Workaround

The first workaround is to continue the installation if it is in progress, or restart the installation if it has been interrupted.

The second workaround is to manually create a local "users" group and manually install the SUNWuces.pkg.

OS Provisioning From New Remote Proxy Controller Repeatedly Fails with HTTP 500 Error

When attempting to OS Provision LDOM guests from a newly installed Proxy Controller, the AI downloads keep failing with an http 500 error showing different URL locations that are noted as the failure points.

For example:

```
23:23:19 Download: 25862/71703 items 251.0/723.4MB 34% complete (7.4M/s)
23:23:24 Download: 27804/71703 items 338.3/723.4MB 46% complete (14.9M/s)
23:23:29 Download: 30360/71703 items 354.3/723.4MB 48% complete (10.2M/s)
```

```
23:23:34 Download: 32781/71703 items 376.3/723.4MB 52% complete (3.8M/s)
23:23:39 Download: 33078/71703 items 403.1/723.4MB 55% complete (4.9M/s)
23:23:45 Download: 33080/71703 items 408.2/723.4MB 56% complete (3.3M/s)
23:23:48 Error occurred during execution of 'generated-transfer-1197-1' checkpoint.
23:23:48 Failed Checkpoints:23:23:4823:23:48 generated-
transfer-1197-123:23:4823:23:48 Checkpoint execution error:23:23:4823:23:48 http
protocol error: code: 500 reason: Internal Server Error23:23:49 URL: 'http://<IP
Address>:8003/IPS/solaris/file/1/
bf7046c17838279aaf2639f92317deaf14349673'23:23:4923:23:49 Automated Installation
Failed. See install log at /system/volatile//install_logAutomated Installation
failedPlease refer to the /system/volatile/install_log file for details
```

Workaround

Edit the Apache `KeepAliveTimeout` and `ProxyTimeout` variables to increase them. Doubling the values should resolve the issue, but both can be further increased if necessary.

- The `KeepAliveTimeout` variable is in the `/var/opt/sun/xvm/uce/etc.opt/server/uce_server/httpd.conf` file.
- The `ProxyTimeout` variable is in the `/var/opt/sun/xvm/uce/etc.opt/server/uce_server/ips-proxy.conf` file.

Service Request Tab Asks for MOS Credentials in Disconnected Mode

When accessing the Service Request tab, a popup window asks for My Oracle Support credentials, even if the Enterprise Controller is in Disconnected Mode and is not registered with MOS.

Workaround

When the popup appears, click cancel.

Agentless Oracle Solaris 10 Branded Zones Show Incorrect Version in `Sh(Solaris)OperatingSystem`

Oracle Solaris 10 branded zones on Oracle Solaris 11 have incorrect `Sh(Solaris)OperatingSystem` properties:

in `ShOperatingSystem` : `isS10` is false

in `ShSolarisOperatingSystem` : `isSol10` is false

Workaround

Provision an Agent Controller on the Oracle Solaris 10 branded zone.

 **Note:**

This issue is fixed in version 12.3.2.

Oracle Solaris 11 Kernel Zones With the Same Hostid Are Correlated

Ops Center relies on a kernel zone hostid to identify it uniquely from the global zone or the kernel zone, and to persist its configuration among different global zones.

If 2 kernel zones have the same hostid, they will correlate together, which means that there will be only 1 kernel zone listed in the UI, and management of a kernel zone may target the other kernel zone with the same hostid.

Having the same hostid is possible if the user manually sets the same hostid for 2 kernel zones, or if the same hostid is generated for 2 KZs configured in the same second.

Workaround

Manually change the hostid for both of the kernel zones, then refresh the global zone.

Kernel Zone Cannot be Deleted on a Control Domain With a Logical Domain Virtualization Controller

You cannot delete a kernel zone from Ops Center if it is running on a control domain with a logical domain virtualization controller.

The Delete Zone action fails and no job is executed.

Workarounds

The first workaround is to switch management access to agentless management or to a zone Virtualization Controller, which enables you to delete the kernel zone from the user interface.

The second workaround is to manually delete the kernel zone and refresh the control domain.

 **Note:**

This issue is fixed in version 12.3.1.

Logical Domains Can Be Created Without Sufficient Memory To Run

The Logical Domain creation process allows the creation of LDOMs with 1 GB of memory, but Oracle Solaris 11.2 requires a minimum of 2 GB. The creation job fails and the LDom cannot be used.

Workaround

When creating a Logical Domain with Oracle Solaris 11.2, do not assign it less than 2 GB of memory.

After Restoring, a Duplicate Enterprise Controller Appears in the User Interface

After backing up the Enterprise Controller and restoring from that backup on a new system with the same hostname, a duplicate Enterprise Controller system is displayed in the UI in an unknown state.

Workaround

Delete the missing assets from the user interface. If you cannot delete the missing assets from the user interface, delete the missing assets from CLI.

1. Launch the CLI on the system hosting the Enterprise Controller.

```
/opt/SUNWoccli/bin/oc
```

2. Type `connect` to connect to the Enterprise Controller.
3. Type `gear` to enter the gear mode.
4. Type `list` to list the assets to get the UUID of the asset you want to delete.
5. Delete the assets by using the following command:

```
delete -U <UUID> -f
```

During Restore, the Proxyadm Unconfigure -k Option Clears the Local Database

During a restoration of an Enterprise Controller on a new system where the EC will be using a new IP, any remote Proxy Controllers will need to be redirected to the new Enterprise Controller IP. This is done with the `proxyadm` command option (added in 12.3.1.0.0) to reconfigure the Proxy Controller to the new Enterprise Controller IP.

From the remote Proxy Controller use:

```
proxyadm update -s|--satellite-ip <Enterprise Controller IP>
```

Do not use any form of the proxyadm unconfigure/configure commands for this purpose. This will cause the assets that are connecting through the Proxy Controller to be lost.

Ops Center Cannot Properly Manage Non-Global Zones Created Using OpenStack

Ops Center does not currently support OpenStack. A non-global zone created from OpenStack will be properly discovered in Ops Center (if its global zone is discovered), and Ops Center will be able to change its configuration using Solaris CLI. However, OpenStack does not support changing a non-global zone configuration using an external tool. Do not change the configuration of a non-global zone created with OpenStack, or it will cause issues in OpenStack.

Zstat Produces Excessive Amounts of Data in /var/adm/exacct/zstat-process

On Oracle Solaris 10 systems, zstat on occasions produces excessive amounts of data in /var/adm/exacct/zstat-process resulting in filesystem fillup in production environment.

Workarounds

A temporary workaround is to run the following command:

```
svcadm restart svc:/application/xvm/zstat:default
```

However, this only clears the file temporarily, it will continue to grow.

A permanent workaround tells zstat not to record detailed tracking of system processes. Run the following commands on the system:

```
% mkdir -p /etc/opt/sun/oc
% echo "zstat_exacct_allowed=false" > /etc/opt/sun/oc/zstat.conf
% chmod 755 /etc/opt/sun /etc/opt/sun/oc
% chmod 644 /etc/opt/sun/oc/zstat.conf
% chown -Rh root:sys /etc/opt/sun/oc
% /opt/SUNWxvmoc/bin/agentadm stop
% /opt/SUNWxvmoc/bin/agentadm start
```

Cannot Correlate Kernel Zone Instances if No Hostid in Kernel Zone Operating System

If a hostid generated in zonecfg is not within the range 0x0 to 0x7ffffff, then there is no hostid in the kernel zone operating system.

As the hostid is the correlation entry in Oracle Enterprise Manager Ops Center, following are the consequences:

- If the kernel zone is running, the kernel zone asset is discovered or is removed from the Oracle Enterprise Manager Ops Center as you get the hostid from the OS.
- If the kernel zone is not running, the kernel zone asset is recreated with the hostid set.
- If the OS of the kernel zone is discovered, an OS is created but it does not correlate with the kernel zone asset as there is no hostid.

Workaround 1

Update the kernel zone to a SRU when the hostid problem is fixed. Remove the operating system of the kernel zone from the Oracle Enterprise Manager Ops Center and rediscover the asset with or without agent.

Workaround 2

1. Change the hostid in the kernel zone by providing a hostid that it supports using the command:

```
zonecfg -z <kz> set hostid=...
```

2. Remove the image UUID by using the command:

```
zonecfg -z <kz> remove attr name=image-uuid
```

3. Refresh the global zone. This destroys the current kernel zone model and recreates a new one with a new hostid.
4. If the operating system is running an agent, unconfigure and reconfigure the agent. If the OS is discovered agentlessly, delete the OS asset in Oracle Enterprise Manager Ops Center and rediscover the OS.

OSP CDOM Manifest Does Not Have iSCSI Device Information

The OSP S11 manifest does not have the iSCSI devices information to install the OS to an iSCSI disk. The iSCSI parameters are set incorrectly by CDOM OSP.

Hence, it installs the OS to a local disk.

USB VNIC Interfaces Are Not Filtered and Causes Various Issues

After discovering a system with a USB VNIC, an extra ethernet fabric appears in the domain model.

During the system discovery, the Oracle Enterprise Manager Ops Center must skip the USB interfaces. But, as the system is discovered with a USB VNIC with an IP plumbed on it, all the USB interfaces are considered as regular interfaces and causes an extra ethernet fabric to appear in the domain model. This leads to incorrect domain model and affects the network functionality.

Do Not Create an ETH Fabric for USB Interfaces

Oracle Enterprise Manager Ops Center does not support USB network creation or representation.

As the USB network creation or representation is not supported, creating fabric for a USB data link on a server is not useful.

Collision Guest Not Repaired After Host ID Change and Refresh

Logical Domains are identified by their domain UUID and their host ID.

Two logical domains managed by Oracle Enterprise Manager Ops Center with the same host ID leads to domain model corruption and an incorrect representation of the logical domains in the user interface with the following instances:

- Only one of the two logical domains appears in the navigation tree.
- The same logical domain appears under two different control domains in the navigation tree.

For example, consider two domains guest-1 and guest-2 belonging to f1.example.com and f2.example.com respectively, have the same host ID. This leads to the either of the following incorrect representations of the logical domains:

- only guest-1 is displayed under f1.example.com in Oracle Enterprise Manager Ops Center UI navigation tree.
- guest-1 is displayed twice, under f1.example.com and f2.example.com and guest-2 is not displayed.

Workaround

To repair the guest with the host ID collision, delete all the existing resources of guest in collision with and recreate the guest with a new hostid that does not exists in the Oracle Enterprise Manager Ops Center domain model. The repair procedure is as follows:

1. Identify the guest in collision using the Oracle Enterprise Manager Ops Center CLI with the following command:

```
localhost > collisions
localhost/collisions > list -t all
```

```
CRITICAL collision on hostid 11111111 :
      server          |          name          |
-----|-----|-----
UUID          |          MAC          |
-----|-----|-----
      f1.example.com |          guest-1      | 0ee154ca-4f80-4e9c-
a698-a403baf7b92a | 00:14:4F:FB:72:E9
      f2.example.com |          guest-2      |
bbeb689c-79bf-4954-9afb-ce55f86e307d | 00:14:4F:F9:1B:C0
```

This indicates that guest-1 and guest-2 are in collision and guest-2 needs to be repaired.

2. Delete the Operating System asset as a wrong operating system may be displayed in case of collision under a given logical domain.
 - a. Select the OS of the logical domain in the left navigation panel.
 - b. Select **Delete Assets** in the Actions pane.
3. Change the host ID in collision using the following command:
 - a. Log in to f2.example.com.
 - b. Stop the logical domain using the following command:

```
ldm stop guest-2
```
 - c. Set a new host ID using the following command:

```
ldm set-domain hostid=0x22222222 guest-2
```
 - d. Set the `hostid-collision-repair` variable using the following command:

```
ldm set-var hostid-collision-repair=true guest-2
```
 - e. Start the logical domain by using the following command:

```
ldm start guest-2
```
4. Refresh the respective control domain.
 - a. Log in to Oracle Enterprise Manager Ops Center user interface.
 - b. Select the f2.example.com control domain in the left navigation panel.
 - c. Select **Refresh** in the Actions pane.

The logical domains appear under their respective control domains.
5. Discover the Operating Systems using **Add Assets** in the Actions pane.

The operating systems appear under their respective control domains.

Non-Global Zone Persistent Configuration Should Not Be Updated if Dynamic Reconfiguration Fails

When performing dynamic zone management operations, current Oracle Enterprise Manager Ops Center behavior is to update the persisted zone configuration prior to the live zone configuration.

If a job fails to update the live zone configuration, the persisted zone configuration may be updated successfully. To synchronize the live zone configuration with the configuration displayed in Oracle Enterprise Manager Ops Center, restart the non-global zone.

Database Migration From Local 12c to Remote 12c with Container Times Out

Migrating local 12c database to remote 12c database with container times out after several hours as it was unable to lock an object during migration.

Ops Center migration from local database to remote database fails with the following error:

```
ORA-04021: timeout occurred while waiting to lock object
```

The ORA-04021 timeout error is caused by another session locking or using a package that you are attempting to execute. During migration, the Enterprise Controller drops and recreates the remote DB procedure `copy_oc_schema`, if it exists from previous migration attempt. If the previous migration was aborted, this may cause a lock hold in the remote schema procedure `copy_oc_schema` and the current migration waits until the lock is released or timeout occurs.

Workaround

Apply the solution found in MOS Note 2079362.1: Ops Center migration from local database to remote database fails with error ORA-04021: timeout occurred while waiting to lock object.

Cannot Import the Latest X3-2 Firmware

While importing the latest X3-2 firmware zip file, it displays an error.

The following error is displayed:

```
Error in reading firmware metadata information.
```

```
ILOM 3.2.4.26.b r101722
```

```
BIOS 17.11.05.00
```

```
Server 1.4.2 download
```

```
EC: 12.3.1.0.0
```

The issue is due the metadata file which indicates that the binary file is in the current directory. However, the binary file appears in the parent directory.

Workaround

Manually unzip and upload only the service processor metadata file.

Update Management and Delete Asset Should Clear the Session

When performing Update Management and Delete Assets actions on a Proxy Controller, the session times out due to inactivity.

The session times out due to the presence of an active old session. This leads to performance issues.

Workaround

Restart the Proxy Controller.

Reinstalling Agent on an Oracle Solaris 10 Non-Global Zone May Fail if Truststore Directory is Not Removed

When an agent in an Oracle Solaris 10 non-global zone environment is uninstalled, it does not uninstall the truststore directory.

As a result, when the agent is rediscovered and the agent provisioning job is performed in the non-global zone, it displays the following error:

```
11/27/2015 03:26:32 PM MET ERROR 'echo mkdir:; /usr/bin/mkdir/zones/smvt-174-148/root//var/tmp/fromProxy/' exited with status: 2 (80055)
```

Workaround

Manually remove the `/var/tmp/fromProxy` when uninstalling the agent controller and rerun the provisioning job.

Note:

This issue is fixed in version 12.3.2.

LDAP User with Required Roles Unable to Upgrade From 12.2.2 to 12.3

A LDAP user cannot download or upgrade Oracle Enterprise Manager Ops Center version 12.2.2 to version 12.3. If a LDAP user is used for this action it will impact the download action for all users.

Note:

This issue is fixed in version 12.3.1.

Note:

You can download or upgrade from version 12.3.1 to any later version using an LDAP user, but cannot use an LDAP user when downloading or upgrading from version 12.2.2 to version 12.3 and from version 12.3 to version 12.3.1.

You must have a non-LDAP user with the Ops Center Admin role to initiate the upgrade or to download the updates. If an LDAP user with the Ops Center Admin role is used, then the following error is displayed:

```
No upgrades found.
```

If this error is also displayed for local users with Ops Center Admin role, then restart the Enterprise Controller for a non-LDAP user to be able to download the update.

Kernel Zone Using Local Device on LDOM Guest Should Use Device Path Without Slice

In Oracle Enterprise Manager Ops Center 12.3.1, you cannot use local devices when creating a kernel zone in LDOM.

Oracle Enterprise Manager Ops Center uses full device path when using a LDOM local device in a kernel zone.

The job fails with the following error:

```
Must be a block device or regular file
```

Workaround

Use direct LUN access from a SAN library.

Limited Support for Oracle Linux 7.0 and 7.1

Oracle Linux 7.1 is supported for OS provisioning, monitoring and management but not supported for EC installation, PC installation, and OS patching.

Oracle Linux 7.0 is supported for monitoring and management but not supported for OS provisioning, EC installation, PC installation, and OS patching.

Note:

Oracle Linux 6.6 and Oracle 6.7 is not supported for OS patching.

Note:

Starting with version 12.3.2, Oracle Linux 7.0 and 7.1 supports EC and PC installation.

Reverting to Earlier Version Without Reverting Customer-Managed Database Can Cause Issues

Once you have upgraded to version 12.3.1, if you are using a customer-managed database, you cannot revert to an earlier version by reverting only the Enterprise Controller system to a saved boot environment. You must revert both the Enterprise Controller system and database system to the same pre-upgrade state.

If you revert to an earlier version, all monitoring data gathered since the reversion point is lost.

Upgrading Java on Oracle Solaris 10 Control Domains and Logical Domains Causes Agent Communication Issues

Do not upgrade the Java version on Oracle Solaris 10 Control Domains or Logical Domains that have LDOM Manager version 3.2 or earlier installed. An issue with the latest version can cause agent communication issues on these systems.

If you have upgraded the Java on these systems to version 1.6.0_101 or higher, downgrade to Java 1.6.0_95.

Ops Center 12.3.1 Solaris 10 Global Zone Shows Kernel Zone Create Action to be Available

Ops Center version 12.3.1 displays **Create Oracle Kernel Zones** action as available for Oracle Solaris 10 global zone.

This option should be available only for Oracle Solaris 11 global zone.

LUNs for Zone Storage Does Not Get Locked

If a deployment plan is initiated to create multiple zones in one job, using LUNs from a SAN library as zone storage, the deployment wizard uses a LUN for each zone from the SAN library as storage. The LUNs used are not locked until the matching zone gets created.

If a second deployment plan is initiated using the same SAN library, when the first deployment plan is still in progress, the deployment wizard will use the same available LUNs for zone storage which were already used earlier.

Therefore, both jobs will partially fail with only a few zones created. Do not submit these kind of jobs in parallel.

Add Assets Job Fails With Network Error

When adding an asset to the Enterprise Controller with network that is not associated with any Proxy Controller and if there are multiple Proxy Controllers, then the Job Manager cannot determine the right Proxy Controller for the discovery job and fails with an error.

The following error is displayed:

```
Job failed at start-up : There was no Network that could access <IP Address>.
```

Users and Groups Created by Ops Center Installation Not Specified

The accounts that are created as part of the Oracle Enterprise Manager Ops Center 12c installation are not listed in the documentation.

The following users and groups are created in Oracle Enterprise Manager Ops Center 12c:

- Enterprise Controller Users - svctag, allstart, uce-sds, xvm, webservd
- Enterprise Controller Groups - jet, uce-sds, webservd
- Proxy Controller Users - svctag, allstart, uce-sds
- Proxy Controller Groups - jet, uce-sds

The svctag and xvm users are expected to have the default UIDs of 95 and 60, respectively. The UIDs for the other users depend on the OS settings and are not expected to be a specific value.

Zones Using iSCSI Storage Are at Risk to Get Broken During Global Zone Reboot

On an Oracle Solaris platform, when you reboot the global zone hosting the kernel zone based on iSCSI storage, an error is displayed.

Workaround

1. After the global zone has booted successfully, manually attach zones on the global zone again by using the following command:

```
zoneadm -z <ngz> attach
```

2. The zones disappear from the user interface. Hence refresh the Global zone to add them again.

Create Kernel Zone Job Fails When Overriding CPU Model

During the creation of zone with a shared CPU, if you choose the **allow override any profile values** option, the shared CPU value is changed to dedicated CPU value and hence the creation of kernel zone fails.

Ability to Create Kernel Zone Using Infiniband

The discovery of Kernel Zones using Infiniband is supported, but creating a Kernel Zone with Infiniband from Oracle Enterprise Manager Ops Center user interface is not supported.

Java 7u95 Rejects by Default the MD5 Certificates

If a Proxy Controller uses MD5 certificates, all the Agent Controllers using a latest version of JDK will not be able to register the Proxy Controller. This impacts the discovery, OS Provisioning, and manual installation.

To verify if the Proxy Controller uses MD5 certificates, use the keytool and check the signature algorithm name.

On the Proxy Controller:

- For Oracle Solaris: `/usr/jdk/latest/bin/keytool -v -list -keystore /etc/cacao/instances/scn-proxy/security/jsse/keystore`
- For Linux: `/usr/java/latest/bin/keytool -v -list -keystore /etc/opt/sun/cacao2/instances/scn-proxy/security/jsse/keystore`

On the Agent Controller:

- For Oracle Solaris: `/usr/jdk/latest/bin/keytool -v -list -keystore /var/opt/sun/xvm/security/jsse/scn-agent/truststore`
- For Linux: `/usr/java/latest/bin/keytool -v -list -keystore /var/opt/sun/xvm/security/jsse/scn-agent/truststore`

Workaround 1

1. On the Enterprise Controller or the Proxy Controller, depending on the operating system used by these systems, upgrade the local cacao to the latest version 2.4.7.0 or later.
 - For Oracle Solaris 10 and Linux OS, upgrading Oracle Enterprise Manager Ops Center will upgrade the cacao to latest version.
 - For Oracle Solaris 11 and later, to upgrade the cacao to latest version, use the `pkg update entire` command.
2. Use `cacaoadm create-keys` command with `-n` option and `-d <directory>` for cacao to generate new keys in the `<directory>`.

```
mkdir <directory>
cacaoadm create-keys -n -d <directory>
```

3. Copy the useful files to the following location:

For Oracle Solaris:

```
cp <directory>/jsse/keystore /etc/cacao/instances/scn-proxy/security/jsse/
keystore_new
cp <directory>/password /etc/cacao/instances/scn-proxy/security/password_new-U
<UUID> -f
```

For Linux:

```
cp <directory>/jsse/keystore /etc/opt/sun/cacao2/instances/scn-proxy/security/
jsse/keystore_new
cp <directory>/password /etc/opt/sun/cacao2/instances/scn-proxy/security/
password_new
```

4. Follow the Replace the Certificate for the Enterprise Controller or Replace the Certificate for the Proxy Controller procedures as described in the *Oracle*

Enterprise Manager Ops Center Security to propagate the new certificate using the CLI security mode and then activate it.

Workaround 2

This procedure can be applied on Agent Controllers or Virtual Controllers if their Proxy Controller uses MD5 certificates.

Note:

This procedure is not secure and hence not recommended.

1. Verify if the certificate has the Signature algorithm name as MD5withRSA in the following location:

On the Proxy Controller:

- For Oracle Solaris: `/usr/jdk/latest/bin/keytool -v -list -keystore /etc/cacao/instances/scn-proxy/security/jsse/keystore`
- For Linux: `/usr/java/latest/bin/keytool -v -list -keystore /etc/opt/sun/cacao2/instances/scn-proxy/security/jsse/keystore`

On the Agent Controller:

- For Oracle Solaris: `/usr/jdk/latest/bin/keytool -v -list -keystore /var/opt/sun/xvm/security/jsse/scn-agent/truststore`
- For Linux: `/usr/java/latest/bin/keytool -v -list -keystore /var/opt/sun/xvm/security/jsse/scn-agent/truststore`

Note:

These commands for the Enterprise Controller or the Proxy Controller will prompt for a password. No password is required here and select Return.

2. If the MD5withRSA signature exists, edit the following lines to remove MD5 and MD5withRSA on the Agent Controller or the Virtual Controllers.

- For Oracle Solaris, edit the following lines in the `/usr/jdk/latest/jre/lib/security/java.security` file:
 - `jdk.certpath.disabledAlgorithms=MD2, MD5, RSA keySize < 1024`
 - `jdk.tls.disabledAlgorithms=SSLv3, MD5withRSA, DH keySize < 76`
- For Linux, edit the following lines in the `usr/java/latest/jre/lib/security/java.security` file:
 - `jdk.certpath.disabledAlgorithms=MD2, MD5, RSA keySize < 1024`
 - `jdk.tls.disabledAlgorithms=SSLv3, MD5withRSA, DH keySize < 76`

3. Restart the Agent Controllers or the Virtual Controllers.

Unable to Configure an Agent Using Latest Java 6 if Proxy Uses TLS Version 1.1

If the Proxy Controller is configured to use only TLS 1.1 and 1.2, the Agent Controller using Java 6 version may not be able to connect.

Workaround

If the agent is installed with JDK version 6u115 or later, you can enable TLS 1.1 to resolve the communication issue with the following steps.

Note:

If the agent is installed with a JDK version lesser than 6u115, you cannot disable TLSv1.0 for agents at the proxy level without losing the agent.

1. Stop the Agent Controller.

```
/opt/SUNWxvmoc/bin/agentadm stop -v
```

2. Read the current value.

```
cacaoadm get-param tls-server-version-backup -i scn-agent
```

3. Set the value to 1.1.

```
cacaoadm set-param tls-server-version-backup=TLSv1.1 -i scn-agent
```

4. Restart the Agent Controller.

```
/opt/SUNWxvmoc/bin/agentadm start -v
```

proxyadm Configure\Start Fails on Java Warning: PICL (libpicl.so.1) is missing

Installation of a remote Proxy Controller on a Non-Global zone fails as the system does not include the `system/picl` package.

Workaround

Install the `system/picl` package and retry to configure and start the remote Proxy Controller using the `proxyadm` command with the `configure` and `start` subcommands.

Dynamic Edition of a S10 Branded Zone Should Not Be Allowed in the User Interface

The dynamic network edition of a zone is based on the Global Zone Solaris version. For Oracle S10 branded zones, the dynamic network edition should not be allowed.

Workaround

You can start a job when the zone is running. This job will not dynamically edit the zone configuration. You must restart the S10 branded zone at the end of the job for the zone configuration to be updated.

Improve Error Message on Failed Hardware Discovery

During the discovery of Oracle SPARC S7-2 and Oracle SPARC S7-2L systems, the discovery fails with an error message due to the `servicestate` property which is disabled under the `/SP/services/ipmi/` file on the service processor.

The following error message is displayed:

```
Discovery driver reported: Fail to retrieve the ethernet ports IPMI for host <IP>
exit with errors:
Error: Unable to establish IPMI v2 / RMCP+ session Get Channel Info command failed
```

This error message does not describe the cause for the failure and the fix for the issue.

Workaround

Log in to the service processor and enable the `servicestate` property value by using the following commands:

```
cd /SP/services/ipmi/
set servicestate=enabled
show /SP/services/ipmi/

/SP/services/ipmi
Targets:

Properties:
    servicestate = enabled
    vl_5_sessions = disabled
```

Kernel Zone Creation - IP Missing if Many Connections on the Same Global Zone Lower-link

When creating a Kernel Zone from Oracle Enterprise Manager Ops Center user interface, if the user requires 2 interfaces, in order to connect 2 networks with an IP address in both interface in the Kernel Zone and if both networks are connected on the same interface in the Global Zone that will host the Kernel Zone, then both anets are properly created but one of the IPs may be missing in the Kernel Zone OS (the datalink is not configured in the OS).

Workaround

Create the Kernel Zone without a maximum of 1 network interface from the same Global Zone lower-link. Once the Kernel Zone is created, additional network connections may be added from the same Global Zone lower-link using the Attach Network action.

Kernel Zone Dynamic Add Network Does Not Set Network IP in Kernel Zone Operating System

When adding a new network interface with an IP address to a running kernel zone from its server asset, the new anet will be added only in the persistent zone configuration but does not add in the live zone configuration.

As a consequence, the new IP address will not be set in the kernel zone operating system.

Workaround

Add the new network on a halted kernel zone and reboot the kernel zone at the end of the job in order to add the new anet, then add the IP address from the network tab of the Kernel Zone OS asset.

Swap Alarms False Positives

In some unique scenarios, the usage percentage shown by **zpool list** and **zfs list** differ. In such circumstances, the ZPool Usage Percentage would generate false alarms on environments prior to 12.3.2.

This issue has been resolved in 12.3.2. For a fresh Ops center 12.3.2 installation nothing has to be done. For an upgraded environment to 12.3.2, the following steps need to be performed to completely fix the issue:

- For all the Managed OS Assets who are part of OC-Global Zone Monitoring Policy:
Go to **Message Center**, search for all raised incidents against the Alert Monitoring Rule **ZPool Usage Percentage** and delete them.
- For all the Managed OS Assets which are not part of OC-Global Zone Monitoring Policy:
Disable or delete the existing OS Alert Monitoring Rule **ZPool Usage Percentage** and create the similar Rule but using the Monitoring Attribute as **ZPoolUsage.name=*.zpoolUsedSpacePercentage** .

To create a new monitoring rule:

1. For any managed OS asset with the Monitoring tab open in the center pane, click the Add icon.
2. Select **Threshold** from the menu.
3. Enter the monitored attribute as **ZPoolUsage.name=*.zpoolUsedSpacePercentage** and the description.
4. Define the amount of time that can elapse before an alert is generated, then define the alert severity parameters and limits.

5. Click **Apply**.

Could Not Perform Operation After Automatic Recovery on LDOM Guests

After an automatic move of the logical domain guest from a source server to a destination server, launching some operations on the recovered guest (reboot, delete, migrate, connect network, move metadata, automatic recovery) fails.

Error message displayed is as follows:

```
Could not perform operation because host ID collision has been found. You should apply the repair procedure described in Ops Center documentation and try again (61021).
```

Workaround

Some operations fail when the host ID collision detection finds two images for the recovered guest, on source server and destination server. This issue will be automatically fixed when the source server is reachable again, since the image gets cleaned once the server is available.

You can also set **collision.actions.check.hostid** to **false**. Navigate to Administration > Configuration > Virtualization panel to set the configuration variable. This will prevent checking host ID collisions before launching these operations. After the source server is available again, set the variable back to **true**.

Mismatch in Vlan Tagging Information Shown on Network Dashboard and Details Tab

There is mismatch between vlan tagging information shown on network Dashboard and Network Details tab.

For any selected network from Network accordion, Network Dashboard always shows `vlan Tagging` attribute value as enabled, whereas Network Details tab shows `vlan Tagging` attribute value as enabled only if vlan id is greater than `VLAN_MIN` value which is currently set to 2, otherwise it shows it as disabled for untagged networks.

Workaround

Follow the **Network Details** tab to get the correct vlan tagging information about the network.

After Upgrading the Primary Node in ECHA and Installing Version 12.3.2 on Standby Node, Configuring the Standby Node into ECHA (ha-configure-standby) Can Fail

During the Oracle Enterprise Manager Ops Center upgrade with High Availability configuration, when attempting to reconfigure the standby node into the ECHA configuration, the `ecadm ha-configure-standby` command will fail with the following error:

```
scp: /var/opt/sun/xvm/bui/conf/password: No such file or directory
```

Workaround

On the primary node, if `/var/opt/sun/xvm/bui/conf/password` does not exist, execute the following:

```
echo "trustpass" > /var/opt/sun/xvm/bui/conf/password
chmod 400 /var/opt/sun/xvm/bui/conf/password
```

After executing the above commands, retry the `ecadm ha-configure-standby` command on the standby node.

Proxy controller OFFLINE after rollback and subsequent upgrade

When upgrade fails at a customer site for some reason, rolling back to previous version, the subsequent successful upgrade leaves Proxy Controller in OFFLINE state, until it is manually restarted by the customer. Without restart, the Proxy Controller remains unreachable (OFFLINE), affecting the upgrade of associated Agent Controllers.

Workaround

If Proxy Controller remains unreachable (OFFLINE) after upgrade, use `proxyadm stop -w && proxyadm start -w` to restart it.

Host ids for LDOMs should be 8 characters long

`oocli` is not able to process correctly with shorter host ids. For example, reporting host ids collisions.

Workaround

Host ids must be 8 characters long with pre-pending zeros if necessary.

```
/opt/SUNWoccli/bin/oc -e 'connect -u root -p xxxxxxxx ; collisions ; check -t
hostid -v 0x00999996'
```

After several days, EC gets stuck on waiting for connection to DB

The logs show that after several days, EC seems to be stuck on waiting for connection to DB. It never recovers until EC is restarted. This issue occurs only on Solaris 11.3 Sparc EC.

For Example:

```
grep CumulativeFailedConnectionWaitCount /var/cacao/instances/oem-ec/logs/cacao.0
```

```
CumulativeFailedConnectionWaitCount:38392  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:38426  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:0  
CumulativeFailedConnectionWaitCount:38526
```

Workaround

Download `ojdbc8.jar` and `ucp.jar` and place them in `/var/tmp/` on EC. You can download the jar files from

<http://www.oracle.com/technetwork/database/features/jdbc/jdbc-ucp-122-3110062.html>

Then execute following script on EC.

```
cp /var/tmp/ojdbc8.jar /opt/sun/nlgc/lib/oracle/  
cp /var/tmp/ucp.jar /opt/sun/nlgc/lib/oracle/  
rm /opt/sun/nlgc/lib/oracle/ojdbc7.jar  
  
for i in \  
/etc/cacao/instances/oem-ec/modules/com.sun.hss.satellite.domain.xml \  
/opt/SUNWxvmoc/bin/ecadm; do cp $i $i.old; \  
sed -e 's/ojdbc7.jar/ojdbc8.jar/g' $i.old > $i; done  
  
/opt/SUNWxvmoc/bin/satadm stop -w  
/opt/SUNWxvmoc/bin/satadm start -w
```

Ops Center fails to register with MOS starting with Java 8 Update 121 and newer

Ops Center fails to register with MOS starting with Java 8 Update 121 and newer, because these Java releases no longer include the required certificate. This only happens when an unregistered Ops Center tries to register. This includes new or upgraded installation that has not yet been registered, for example, switching from disconnected mode to connected mode and then registering Ops Center. The already registered Ops Center will continue to work. In order to register Ops Center, a Java certificate needs to be imported into the Java truststore.

Workaround

After installing Ops Center and before configuring it in connected mode, follow the instructions below to import the certificate into the Java truststore:

- Copy and save the following certificate to a text file `/var/tmp/second_chain.crt`

 **Note:**

The first line of the saved certificate file should start with:

```
-----BEGIN CERTIFICATE-----
```

```
MIIE0DCCBDMgAwIBAgIQJQzo4DBhLp8rifcFTXz4/TANBgkqhkiG9w0BAQUFADBf
MQswCQYDVQQGEwJVUzEXMBUGAlUEChMOVmVyaVNPZ24sIEluYy4xNzAlBgNVBAsT
LkNsYXNzIDMgUHVibGljIFByaWlhcngQ2VydGlmawNhdGlvbiBBdXRob3JpdHkw
HhcNMDYxMTA4MDAwMDAwWhcNMjExMTA3MjM1OTU5WjCByjELMAKGA1UEBhMCMVx
FzAVBgNVBAoTDLZlcm1TaWduLCBjbmuMR8wHQYDVQQLExZWZlZjU2LnbiBUcnVz
dCBOZXR3b3JrMTowOAYDVQQLEzEoYykgMjAwNiBwZlZlZjU2LnbiwzSW5jLiAtIEZv
ciBhdXRob3JpemVkIHVzZSBvbm51MUUwQwYDVQQDEzZWZlZjU2LnbiBDbGFzcyAz
IFB1YmtpYyBQcm1tYXJ5IEIENlcnRpb24gQXV0aG9yaXR5IC0gRzUwggEi
MA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCvJAgIKXo1nmAMqudL007cfLw8
RRy7K+D+KQL5Vwi jZIUUVJ/XxrcgxiV0i6CqpkKzj/i5Vbext0uz/o9+B1fs70Pb
ZmIVYc9gDaTY3v jgw2IIPVQT60nKWVSFJuUr jxuf6/WhkcIzSdhDY2pSS9KP6HBR
TdGJaXvHcPaz3BJ023tdS1bTlr8Vd6Gw9KI18q8ckmcY5fQGBO+QueQA5N06tRn/
Arr0PO7gi+s3i+z016zy9vA9r911kTMZHRxAy3QkGSGT2RT+rCpSx4/VBEnk jWNH
iDxpg8v+r70rfk/Fla4OndTRQ8Bnc+MUCH71P59zuDMKz10/NIeWiu5T6CUVAgMB
AAGjggGMIIBlZAPBgnVHRMBAf8EBTADAQH/MDEGAlUdHwQqMCgwJqAkoCKGIgh0
dHA6Ly9jcmwudmVyaXNpZ24uY29tL3BjYTMuY3J5MA4GA1UdDwEB/wQEAWIBBjA9
BgNVHSAENjA0MDIGBFUdIAAwKjAoBggrBgEFBQcCARYcaHR0cHM6Ly93d3cuZmVyaXNpZ24uY29tL2NwcAdBgNVHQ4EFgQUF9Nlp8Ld7LvwManzQzn6Aq8zMTMwYyI
KwYBBQUHAQwEYTBfoV2gWzBZMFcWVRyJaW1hZ2UvZ2lmMCEwHZAHBgUrDgMCGGU
j+XTGoasjY5rw8+AatRIGCx7GS4wJRYjaHR0cDovL2xvZ28udmVyaXNpZ24uY29t
L3ZzbG9nby5naWYwNAIKwYBBQUHAQEEDAmMCQGCCsGAQUFBzABhhodHRwOi8v
b2Nzc52ZXJpc2lnbi5jb20wPgYDVR0lBDcwNQYIKwYBBQUHAWEGCCsGAQUFBwMC
BggrBgEFBQcDAwYJYIZIAyB4QgQBBgpgkGbhvFAQgBMA0GCSqGSIb3DQEBAQUA
A4GBABMC3fjohgDyWvj4IAxZiGIHsz73Tvm7WaGY5eE43U68ZhjTresY8g3JbT5K
lCDDPLq9ZVTGr0Szek0saz6rlwe2uIFjxfileLuUqz87NMwvq14lWYmfs77o0ghZ
tOxFNfEKW/9mz1CvxlXjRl4t7mi0VfGh5pLr7rJjhJ+xr3/
```

```
-----END CERTIFICATE-----
```

- Execute the following command to import the certificate into the truststore. If prompted for password, enter **changeit**

- For Solaris:

```
keytool -importcert -file /var/tmp/second_chain.crt -keystore \
/usr/jdk/latest/jre/lib/security/cacerts
```

- For Linux

```
keytool -importcert -file /var/tmp/second_chain.crt -keystore \
/usr/java/latest/jre/lib/security/cacerts
```

Output:

```
% keytool -importcert -file /var/tmp/second_chain.crt -keystore /usr/jdk/
latest/jre/lib/security/cacerts
```

Enter keystore password:

Certificate was added to keystore

- You can now proceed with registering Ops Center

If you have already attempted to configure and register Ops Center and it has already failed, then proceed with the certificate installation instructions above and then you should be able to register Ops Center. There is no need to restart the Enterprise Controller while installing the certificate or after.

No migration target available for selection to do Ldom guest migration on M8/T8

This can be observed also on M7/T7. The problem is that on following servers, M8/T8 and M7/T7 if we have a guest there and we would like to migrate it to compatible server, target server is not recognized as compatible and not shown in the UI wizard.

Workaround

Restart OC agent on source and target server.

References

The following documents are related to installing and upgrading Oracle Enterprise Manager Ops Center 12c Release 3 (12.3.3.0.0).

- **Oracle Enterprise Manager Ops Center Release Notes, 12c Release 3** : This document provides links to other documentation for installing and uninstalling the software. It also includes a list of known issues related to installation and postinstallation configuration.
- **Oracle Enterprise Manager Ops Center Installation for Oracle Solaris Operating System, 12c Release 3**: This document provides detailed instructions on performing a fresh installation of Oracle Enterprise Manager Ops Center on Oracle Solaris systems.
- **Oracle Enterprise Manager Ops Center Installation for Linux Operating Systems, 12c Release 3**: This document provides detailed instructions on performing a fresh installation of Oracle Enterprise Manager Ops Center on Oracle Linux or Red Hat Enterprise Linux systems.
- **Oracle Enterprise Manager Ops Center Administration Guide, 12c Release 3**: This document provides instructions on administering, managing, and uninstalling Oracle Enterprise Manager Ops Center.

You can view these documents in the Oracle Enterprise Manager Ops Center Documentation Library at http://docs.oracle.com/cd/E59957_01/index.htm.

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