

Oracle® Database Appliance Kit for WebLogic Server

Release Notes

Release 12.1.2.2.0

E56823-03

August 2015

This document contains the release notes for Oracle Database Appliance Kit for WebLogic Server version 12.1.2.2.0. It contains the following sections:

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1 WebLogic Server uses 32-bit JDK

Using WebLogic Server on Oracle Database Appliance 12.1.2.2.0 templates for WebLogic Server/Coherence, the 32-bit JDK is used instead of the 64-bit JDK on Virtual Machines.

2 WLS on ODA Configurator Issues

- The configurator pop-up does not show relevant information after loading the configuration file. It does not provide information if IB is disabled.
- If the configurator causes a stack dump in the console where it is running, the configurator will need to be re-loaded as verification will be broken.

3 Configuring a Common NFS Mount Point to be Shared Across all Coherence VMs

Use this procedure to configure a common NFS mount point to be shared across all the Coherence VMs being configured as it requires at least 20 GB of storage.

1. Create ACFS on dom1 (ODA_BASE)

a. As a grid user, start ASMCMD:

```
# su - grid
$ . oraenv
ORACLE_SID = [grid] ?
ORACLE_HOME = [/home/oracle] ? /u01/app/12.1.0.2/grid
The Oracle base has been set to /u01/app/grid
$ asmcmd
```

b. Create Oracle ASM volume

```
ASMCMD> volcreate -G data -s 20G volume1
```

c. Get the device name:

```
ASMCMD> volinfo -G data volume1
Diskgroup Name: DATA

          Volume Name: VOLUME1
          Volume Device: /dev/asm/volume1-234
...

```

d. Create FS using device

```
/sbin/mkfs -t acfs /dev/asm/volume1-234
```

e. (Optional) Register FS

```
/sbin/acfsutil registry -a /dev/asm/volume1-234 /u01/app/acfsmounts/myacfs
```

You can change the last parameter to a path of your choice

f. Mount FS (if registered this may have been done automatically)

```
mkdir -p /u01/app/acfsmounts/myacfs
mount -t acfs /dev/asm/volume1-234 /u01/app/acfsmounts/myacfs
```

You can create the directory anywhere with a name of your choice.

2. Export ACFS using NFS

a. Create entries in **/etc/exports** on the dom1 (ODA_BASE) where the ACFS above was created

```
# cat /etc/exports
/u01/app/acfsmounts/myacfs 192.168.16.64(rw,no_root_squash,fsid=1801)
/u01/app/acfsmounts/myacfs 192.168.16.68(rw,no_root_squash,fsid=1802)
```

Make sure to add one entry per VM that will be mounting the NFS. Use the internal IP of the VM and update the FSID for each entry.

b. Ensure NFS server will be started on dom1 (ODA_BASE) in case of reboot

```
# chkconfig --list | grep nfs
nfs                0:off  1:off  2:on   3:on   4:on   5:on   6:off
nfslock            0:off  1:off  2:off  3:on   4:on   5:on   6:off
```

- c. Reload the NFS settings for above entries to take effect

```
# exportfs -a
```

- d. Verify that NFS is exported

```
# exportfs -v
...
/u01/app/acfsmounts/myacfs
    192.168.16.64(rw,wdelay,no_root_squash,no_subtree_
check,fsid=1801,anonuid=65534,anongid=65534)
/u01/app/acfsmounts/myacfs
    192.168.16.68(rw,wdelay,no_root_squash,no_subtree_
check,fsid=1802,anonuid=65534,anongid=65534)
```

There may be other entries in the above output. Make sure the entries you added are there.

3. Mount the NFS on the VMs

- a. Install NFS on all VMs where you will be mounting.
- b. Extract the RPMs bundle and install:

```
tar -xzvf nfs_rpms.tgz
cd nfs
rpm -ivh ./*
```

- c. Mount the NFS:

```
mkdir -p /mnt/nfs
mount <dom1_IP>:/u01/app/acfsmounts/myacfs /mnt/nfs
```

Make sure you use the internal IP address and paths.

4 Handling Assign IP Failed Error During Configuration

When you do multiple deployments, you may come across the Assign-IP failed error.

Workaround

Note: Use the following procedure only during initial deployments as all VM entries are removed.

1. Delete this file from both dom0:

```
/opt/oracle/oak/conf/oakvmagentIp.db
```

2. Restart agent on both dom0:

- a. Find the agent process ID

```
ps -ef | grep oak
```

```
/opt/oracle/oak/bin/oakVmAgent.py
```

- b. Kill the identified process.

The agent restarts automatically and recreates the above IP file.

5 User Roles for Applying Patches differ in WebLogic Server Versions

To install the patches, instructions are delivered along with the patches. Note that the user roles for installing patches are different in Oracle WebLogic Server 10.3.6 and Oracle WebLogic Server 12.1.x versions.

5.1 Only oracle User can Install Patches in WebLogic Server 12.1.x Versions

Only **oracle** user with **oinstall** group privileges can run the OPatch command in Oracle WebLogic Server 12.1.x versions. The root user cannot run the OPatch command. The password for the oracle user is the same as the root user which is used for configuring Oracle WebLogic Server VMs.

5.2 Only root User can Apply Patches in WebLogic 10.3.6 Version

Only **root** user can run the Smart Update Tool in Oracle WebLogic Server 10.3.6 version to install the patch. The **oracle** user available on Oracle WebLogic Server VMs cannot run Smart Update tool.

6 Gateway and Netmask on the same subnet as ODA_BASE

Gateway and Netmask for Oracle WebLogic Server and Oracle Traffic Director must be on the same subnet as the ODA_BASE. The configurator will display a warning if you provide invalid values.

- On ODA X3-2 and X4-2, there is support for both Eth1 and Eth2 network interfaces:
 - If Eth1 network is used, the gateway/netmask details entered must be on the same subnet as the Eth1 of ODA_BASE.
 - If Eth2 network is used, the gateway/netmask details entered must be on the same subnet as the Eth2 of ODA_BASE.

Eth1 and Eth2 can be on different subnets as long as their subnets match with that of ODA_BASE.

- On ODA V1, there is support for both Eth1 and Eth4 network interfaces:
 - If Eth1 network is used, the gateway/netmask details entered must be on the same subnet as the Eth1 of ODA_BASE.
 - If Eth4 network is used, the gateway/netmask details entered must be on the same subnet as the Eth2 of ODA_BASE.

Eth1 and Eth4 can be on different subnets as long as their subnets match with that of ODA_BASE.

7 Running Configurator While Doing a Cleanup Not Allowed

When a cleanup is in progress, avoid running the configurator as you cannot use the file generated during this configuration. During cleanup, the state of Oracle Database Appliance will be changing and this might lead to incorrect validation if a resource has not been cleaned up yet.

Avoid running the configurator with an existing deployment if all vCPUs are in use on either dom0. Both dom0s must have at least 1 vCPU available, which can be determined by running `oakcli show cpupool -node <0|1>` for both nodes. If the output for both nodes includes `default-unpinned-pool`, you can run the configurator only to create and save a new configuration.

Additionally, do not run provisioning if a deployment already exists.

8 Rebooting Both DOM0 Nodes at the Same Time Can Lead to Bad State

If you reboot both DOM0 nodes at the same time, `oak` fails to discover the repository.

Workaround

Restart `oak` if you rebooted both nodes at the same time accidentally.

9 Datasource Connectivity Fails When Using JMS and Deploying a Large Number of Managed Servers

While using JMS and deploying a large number of Managed Servers, the datasource runs out of usable connections to set up Tlogs by the time the final Managed Server comes up.

Workaround

If you plan to use JMS and deploy a large number of Managed Servers, make sure that the database instance you provide has enough processes. You can increase the number of allowed processes using one of the following methods:

- Connect to the running database and increase the number of processes using the following command, and restart the instance:

```
SQL > alter system set processes=250 scope=spfile;
```

- Increase the value of PROCESSES in the `init<SID>.ora` file of the instance and restart the instance. You can find the file at this location:

```
<ORACLE_HOME>/dbs/init<SID>.ora
```

10 Oracle Traffic Director Virtual IP Address Is Not Accessible

If you have two ODA boxes on the same Ethernet and you provision the Oracle Database Appliance for WebLogic Server Kit on each box, the Oracle Traffic Director virtual IP address is not accessible.

Workaround

Use the following commands to delete the existing failover configuration, and then recreate it using a router ID that is not in use in the network:

```
delete-failover-group --config wlsoda-otd-config --virtual-ip=OTD_virtual_IP
```

```
create-failover-group --config=wlsoda-otd-config --virtual-ip=OTD_virtual_IP --primary-node=Node1_IP_address --backup-node=Node2_IP_address --network-prefix-length=network_prefix_length --router-id=unused_router_ID
```

11 Unable to Start JConsole from the WebLogic Virtual Machines

JConsole cannot be started from the WebLogic VMs. An `UnsatisfiedLinkError` exception occurs.

Workaround

Use either of the following workarounds for this issue.

- Configure the YUM repository (add <http://public-yum.oracle.com/public-yum-el5.repo> to the `/etc/yum.repos.d` directory), and then install the missing RedHat Package Managers (RPMs):

```
yum install libXext
```

```
yum install libXtst
```

```
yum install libXi
```

- To use an external JConsole to connect, add the following parameter to the relevant JVM's start arguments:

```
-Xmanagement:ssl=false,authenticate=false,port=unused_port_number
```

You can then connect to this JVM remotely through the specified port.

12 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

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E56823-03

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