

Oracle® Database Appliance Kit for WebLogic Server

Release Notes

Release 12.1.3.0.0

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This document contains the release notes for Oracle Database Appliance Kit for WebLogic Server version 12.1.3.0.0. It contains the following sections:

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1 Coherence Configuration Issues in WLS on ODA Configurator

The Coherence configuration in the WLS on ODA Configurator might cause some issues. Here are the details and the workaround solutions.

- When importing an existing configuration, sometimes the Coherence check box on the **Domains** page is selected and disabled. If you want to disable Coherence, you can go on the **Coherence** page and use **De-select All** to disable Coherence.
- De-selecting individual domains on the **Coherence** page might not be possible sometimes. If this happens, use **De-select All** and re-select the domains on which you want to run Coherence.

2 WLS on ODA Configurator Issues

- On the Domains page, the co-locate with Admin check box may have multiple Managed Servers selected. Make sure that only a single Managed Server is selected (per domain) by de-selecting others. If you are not able to de-select, restart the configurator as having multiple co-located Managed Servers is not supported.

- 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)

- 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
```

- Create Oracle ASM volume

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

- Get the device name:

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

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

- Create FS using device

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

- (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

- 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

- 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.

- 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 Creating a cpu pool with size more than 25 results in error message

Using Oracle Database Appliance for WebLogic Server version 2.9.1 and earlier on ODA X3-2 and X4-2, if you try to create a cpupool with size more than 24, it displays the following error:

```
OAKERR:8001 OAK Vm Client called with invalid arguments:numOfCpus=25
```

The maxvcpu value is hardware specific. It is 24 in ODA V1, 32 in ODA X3-2 and 48 in ODA X4-2.

Workaround

Depending on your hardware, enter the following command on ODA_BASE on both the nodes:

```
cd /opt/oracle/oak/dapters/oakvmclientlib
sed -i 's/MAXVCPUS=.* /MAXVCPUS=48/' clientConstants.py
```

6 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.

6.1 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.

6.2 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.

7 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.

8 Running Configurator While Doing a Cleanup Not Allowed

You cannot run the configurator while a cleanup is in process. 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.

You cannot run 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.

9 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.

10 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
```

11 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
```

12 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.

13 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>.

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