**Oracle WebLogic 12c (12.1.3) installation – command line and Domain Creation**

Pre-requisites

1. Java JDK
2. WebLogic Jar file

Download the jdk , extract it . Put the jdk file in /data/opt and weblogic file in /data/downloads.

Also place the slient.rsp and oraInst.loc in /data/downloads.



Creating oracle user/pwd and adding it to oinstall group

* useradd -d /mnt/data/home/oracle oracle
* usermod -g oinstall -G oracle
* passwd oracle

Directory creation of permission & ownership settings

* mkdir -p /data/opt/oracle
* mkdir -p /data/opt/oraInventory
* chmod -R 775 /data/opt/oracle
* chmod -R 775 /data/opt/oraInventory
* chown -R oracle:oinstall /data/opt/oracle
* chown -R oracle:oinstall /data/opt/oraInventory/
* also change permission& ownership of weblogic and Java Jar

Set PATH in bash profile in Oracle user and source it again

* export JAVA\_HOME=/data/opt/jdk1.8.0\_211
* export PATH=$JAVA\_HOME/bin:$PATH:$HOME/bin
* export PATH
* TMP=/data/downloads/tmp; export TMP
* TMPDIR=$TMP; export TMPDIR
* ORACLE\_BASE=/data/opt/oracle; export ORACLE\_BASE
* ORACLE\_HOME=$ORACLE\_BASE/product/12.1.0/dbhome\_1; export ORACLE\_HOME
* ORACLE\_SID=AFLSDB23; export ORACLE\_SID
* ORACLE\_TERM=xterm; export ORACLE\_TERM
* PATH=/usr/sbin:$PATH; export PATH
* PATH=$ORACLE\_HOME/bin:$PATH; export PATH

NOTE: Either assign Oracle sudo permissions so that it can create directory or go to data/opt and create folder wls1213.

**Error for permission:**

[VALIDATION] [ERROR]:INST-07008: Validation of Oracle Home location failed. User does not have permission to create home/instance location

[VALIDATION] [SUGGESTION]: Make sure that you have the required permission to create the directory

installation Failed. Exiting installation due to data validation failure.

Logs are located here: /data/downloads/tmp/OraInstall2019-06-03\_03-43-20PM.

[oracle@cn5pvap0011 ~]$ cd /data/downloads/tmp/OraInstall2019-06-03\_03-43-20PM/

Change the ownership and permissions of all files as oracle and oinstall.

Now run the below command

/data/opt/jdk1.8.0\_211/bin/java -jar /data/downloads/fmw\_12.1.3.0.0\_wls.jar -silent -invPtrLoc /data/downloads/oraInst.loc -responseFile /data/downloads/slient.rsp -logfile /data/downloads/wlsInstall.log

**Successful Logs:**

[oracle@cn5pvap0011 downloads]$ /data/opt/jdk1.8.0\_211/bin/java -jar /data/downloads/fmw\_12.1.3.0.0\_wls.jar -silent -invPtrLoc /data/downloads/oraInst.loc -responseFile /data/downloads/slient.rsp -logfile /data/downloads/wlsInstall.log

Launcher log file is /data/downloads/tmp/OraInstall2019-06-03\_03-50-37PM/launcher2019-06-03\_03-50-37PM.log.

Ignoring option "-logFile" (deprecated).

Extracting files......................................

Starting Oracle Universal Installer

Checking if CPU speed is above 300 MHz. Actual 2394.455 MHz Passed

Checking swap space: must be greater than 512 MB. Actual 4128764 MB Passed

Checking if this platform requires a 64-bit JVM. Actual 64 Passed (64-bit not required)

Checking temp space: must be greater than 300 MB. Actual 27053 MB Passed

Preparing to launch the Oracle Universal Installer from /data/downloads/tmp/OraInstall2019-06-03\_03-50-37PM

Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=512m; support was removed in 8.0

Log: /data/downloads/tmp/OraInstall2019-06-03\_03-50-37PM/install2019-06-03\_03-50-37PM.log

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Reading response file..

Starting check : CertifiedVersions

Expected result: One of enterprise-4,enterprise-5,enterprise-6,redhat-6,redhat-4,redhat-5,SuSE-11

Actual Result: enterprise-6

Check complete. The overall result of this check is: Passed

CertifiedVersions Check: Success.

Starting check : CheckJDKVersion

Expected result: 1.7.0\_15

Actual Result: 1.8.0\_211

Check complete. The overall result of this check is: Passed

CheckJDKVersion Check: Success.

Validations are enabled for this session.

Verifying data......

Copying Files...

You can find the log of this install session at:

/data/downloads/tmp/OraInstall2019-06-03\_03-50-37PM/install2019-06-03\_03-50-37PM.log

-----------20%----------40%----------60%----------80%--------100%

The installation of Oracle Fusion Middleware 12c WebLogic Server and Coherence 12.1.3.0.0 completed successfully.

Logs successfully copied to /data/opt/oraInventory/logs.

Creating Folder Structure

Go to a working server and switch to cargores user. Copy the res.ksh and bash profile and run it.

bashprofile cargores

# User specific environment and startup programs

JAVA\_HOME=/data/opt/jdk1.7.0\_51

ANT\_HOME=/data/opt/apache-ant-1.9.6; export ANT\_HOME

PATH=$ANT\_HOME/bin:$JAVA\_HOME/bin:$PATH:$HOME/bin

export PATH

alias config='cd /data/home/cargores/weblogic/config/cargores'

alias site='cd /data/home/cargores/site'

alias logs='cd /data/home/cargores/logs/'

alias alogs='cd /data/home/cargores/logs/res/apps'

alias blogs='cd /data/home/cargores/logs/bkg'

alias release='cd /data/home/cargores/release'

alias data='cd /data/home/cargores/data/res'

alias bin='cd /data/home/cargores/latest/bin'

export cargores\_site\_dir=/data/home/cargores/site/res

export cargores\_install\_name=cargores

export cargores\_env\_name=QA

export cargores\_server\_mode=container

export cargores\_server\_impl=weblogic

export cargobkg\_site\_dir=/data/home/cargores/site/bkg

export cargobkg\_install\_name=cargores

export cargobkg\_env\_name=QA

export cargobkg\_server\_mode=container

export cargobkg\_server\_impl=weblogic

export ORACLE\_HOME=/data/opt/wls1213

Now res.ksh needs to be run , open the file and change the INSTALL DIRECTORY to the path we want the domain to be created in. Res.ksh will create the folder structure and bash profile has the path defined.

#! /bin/ksh

INSTALL\_DIRECTORY=/data/home/cargores

echo "Creating Managed Server Directory Structure ..."

mkdir -p ${INSTALL\_DIRECTORY}/data/msg

mkdir -p ${INSTALL\_DIRECTORY}/logs/msg

mkdir -p ${INSTALL\_DIRECTORY}/site/msg

mkdir -p ${INSTALL\_DIRECTORY}/temp/msg

mkdir -p ${INSTALL\_DIRECTORY}/archive/res/batch

mkdir -p ${INSTALL\_DIRECTORY}/data/res/outdata

mkdir -p ${INSTALL\_DIRECTORY}/data/res/request

mkdir -p ${INSTALL\_DIRECTORY}/data/res/response

mkdir -p ${INSTALL\_DIRECTORY}/logs/res/apps

mkdir -p ${INSTALL\_DIRECTORY}/logs/res/batch

mkdir -p ${INSTALL\_DIRECTORY}/logs/res/comms

mkdir -p ${INSTALL\_DIRECTORY}/site/res

mkdir -p ${INSTALL\_DIRECTORY}/temp/res/batch

mkdir -p ${INSTALL\_DIRECTORY}/archive/bkg/batch

mkdir -p ${INSTALL\_DIRECTORY}/data/bkg/outdata

mkdir -p ${INSTALL\_DIRECTORY}/logs/bkg

mkdir -p ${INSTALL\_DIRECTORY}/site/bkg

mkdir -p ${INSTALL\_DIRECTORY}/temp/bkg

mkdir -p ${INSTALL\_DIRECTORY}/release

mkdir -p ${INSTALL\_DIRECTORY}/tools

mkdir -p ${INSTALL\_DIRECTORY}/weblogic/config/wlsqueue

mkdir -p ${INSTALL\_DIRECTORY}/weblogic/config/weblogic

Creating Domain

Login to working server create a folder and then perform below steps, make sure java and weblogic path is correct (ps -ef | grep java)

Running the below script to take backup of the domain to be copied to other server

/data/opt/jdk1.8.0\_181/bin/java -Djava.security.egd=file:/dev/./urandom -cp /data/opt/wls1213/wlserver/server/lib/weblogic.jar weblogic.WLST config.py

The above calls the WLSt script and below copies the cargores domain to new folder, after that take backup and put in your server

configToScript('/data/home/cargores/weblogic/config/cargores','/data/home/cargores/weblogic/config/03June2019')

copy the config files from working server to one where domain is being created.

Unzip and open config.properties.py – serverip, username, password and domain directory path needs to be changed.

Open Config.py and replace the old ip with present server IP , and replace path with the correct cargores path

Update the database schema details also in config.py

Deploy ear files

Copy the deployment and config script from release folder – change the buildInstall properties

Then run ci make script along with the ear file

Now copy all startup scripts from /data/home/cargores/weblogic/config/cargores and again change the server name and Java paths.

Start the cargores admin

After starting admin ,login to console and change security realms and deployment order. Stop and start admin again

Now for apps startup copy the site folder

Make changes to server IP and make sure the environment is mentioned in Site scripts also , naming convention.

Then start apps script(res,bkg,comms)

Also copy modules folder for additional jars

Useful commands

Execute the below from home directory /home/data/cargores

find ./ -name '\*.sh' -print0 | xargs -0 sed -i 's/10.247.189.70/10.247.189.11/g'

find ./ -name '\*.xml' -print0 | xargs -0 sed -i 's/10.247.189.70/10.247.189.11/g'

find ./ -name '\*.properties' -print0 | xargs -0 sed -i 's/10.247.189.70/10.247.189.11/g'

find ./ -name '\*.py' -print0 | xargs -0 sed -i 's/10.247.189.64/10.247.189.23/g'

find ./ -name '\*.sh' -print0 | xargs -0 sed -i 's/data/opt/jdk1.7.0\_51/data/opt/jdk1.8.0\_211/g'

