***How to Change jdk version in Weblogic from jdk160\_18 to jdk1.6.0\_24***

 Installing a new JDK home directory and replacing the [JAVA](http://www.google.com/finance?q=NASDAQ:JAVA)\_HOME environmental variable in \*\*\* all \*\*\* the scripts referring to it.

This is the preferred approach if you want to do a partial upgrade (affecting to specific domains only, or not affecting to nodemanager), but its difficulty is around on how to know which files do refer to a JDK location.

The initial list of files to change will be :

***Note: 1.Please take backup every file before of change***

***2. don’t change without back up***

\* $INSTALL\_HOME/wlserver\_10.3/common/bin/commEnv.sh  
\* $INSTALL\_HOME/user\_projects/domains/<mydomain>/bin/setDomainEnv.sh  
\* $INSTALL\_HOME/wlserver\_10.3/common/nodemanager/nodemanager.properties  
\* $INSTALL\_HOME/utils/bsu/bsu.sh   
\* $INSTALL\_HOME/utils/quickstart/quickstart.sh  
\* $INSTALL\_HOME/utils/uninstall/uninstall.sh

even that a more exhaustive way to determine them, will be to run the following command:

find . -type f -name "\*.sh" -exec grep -il JAVA\_HOME {} \;

Stop all processes that use the current FMW\_HOME. This refers to   
  
- all the [AdminServer](http://www.crunchbase.com/company/adminserver) and managed\_servers in all domains,   
- all the nodemanager processes running in this FMW\_HOME, and  
- potentially processes running Bea SmartUpgrade at that specific moment.

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- all the nodemanager processes running in this FMW\_HOME, and  
- potentially processes running Bea SmartUpgrade at that specific moment.  
  
3) Edit $INSTALL\_HOME/wlserver\_10.3/common/bin/commEnv.sh and change the

JAVA\_HOME location. For example, change

from:

# Reset JAVA\_HOME, JAVA\_VENDOR and PRODUCTION\_MODE unless JAVA\_HOME  
# and JAVA\_VENDOR are pre-defined.  
if [ -z "${JAVA\_HOME}" -o -z "${JAVA\_VENDOR}" ]; then  
# Set up JAVA HOME  
JAVA\_HOME="/oracle/wls1033/jdk160\_18"  
# Set up JAVA VENDOR, possible values are  
#Oracle, [HP](http://www.google.com/finance?q=NYSE:HPQ), [IBM](http://www.google.com/finance?q=LON:IBM), Sun ...  
JAVA\_VENDOR=Sun  
# PRODUCTION\_MODE, default to the development mode  
PRODUCTION\_MODE=""  
fi

To:

# Reset JAVA\_HOME, JAVA\_VENDOR and PRODUCTION\_MODE unless JAVA\_HOME  
# and JAVA\_VENDOR are pre-defined.  
if [ -z "${JAVA\_HOME}" -o -z "${JAVA\_VENDOR}" ]; then  
# Set up JAVA HOME  
JAVA\_HOME="/oracle/wls1033/jdk1.6.0\_24"  
# Set up JAVA VENDOR, possible values are  
#Oracle, HP, IBM, Sun ...  
JAVA\_VENDOR=Sun  
# PRODUCTION\_MODE, default to the development mode  
PRODUCTION\_MODE=""  
fi

4) For every domain, change the domain "setDomainEnv.sh" script to accommodate for the net JAVA\_HOME .  
  
For default location and default scripts, the setDomainEnv.sh will be placed here:

$INSTALL\_HOME/user\_projects/domains/<domainName>/bin/setDomainEnv.sh

Check carefully where and how the JAVA\_HOME environment variable is changed as this might change accros versions.  
  
For example in WLS 10.3.3 this will be as follows:

BEA\_JAVA\_HOME="/oracle/wls1033/jrockit\_160\_17\_R28.0.0-679"  
export BEA\_JAVA\_HOME  
  
SUN\_JAVA\_HOME="/oracle/wls1033/jdk160\_18"  
export SUN\_JAVA\_HOME  
  
if [ "${JAVA\_VENDOR}" = "Oracle" ] ; then  
JAVA\_HOME="${BEA\_JAVA\_HOME}"  
export JAVA\_HOME  
else  
if [ "${JAVA\_VENDOR}" = "Sun" ] ; then  
JAVA\_HOME="${SUN\_JAVA\_HOME}"  
export JAVA\_HOME  
else  
JAVA\_VENDOR="Sun"  
export JAVA\_VENDOR  
JAVA\_HOME="/oracle/wls1033/jdk160\_18"  
export JAVA\_HOME  
fi  
fi

And hence, the change will have to be done for SUN\_JAVA\_HOME, to specify the new location:

SUN\_JAVA\_HOME="/oracle/wls1033/jdk1.6.0\_24"  
export SUN\_JAVA\_HOME

5) Change the JDK location specified in nodemanager.properties for the default and any other existing nodemanager process:  
  
a) Take a backup of $INSTALL\_HOME/wlserver\_10.3/common/nodemanager/nodemanager.properties  
  
From:

PropertiesVersion=10.3  
javaHome=/oracle/wls1033/jdk160\_18  
AuthenticationEnabled=true  
NodeManagerHome=/oracle/wls1033/wlserver\_10.3/common/nodemanager  
JavaHome=/oracle/wls1033/jdk160\_18/jre  
LogLevel=INFO

To:

PropertiesVersion=10.3  
javaHome=/oracle/wls1033/jdk1.6.0\_24  
AuthenticationEnabled=true  
NodeManagerHome=/oracle/wls1033/wlserver\_10.3/common/nodemanager  
JavaHome=/oracle/wls1033/jdk1.6.0\_24/jre  
LogLevel=INFO

6) Replace the new JDK location on all the minor tools used in the same FMW\_HOME, such as BSU, uninstall.sh, etc.  
  
For the Bea SmartUpgrade tool $INSTALL\_HOME/utils/bsu/bsu.sh

Update this line:

From

JAVA\_HOME="/opt/JDK1.6.14"

to

JAVA\_HOME="/oracle/wls1033/jdk1.6.0\_24"

Similarly, change JAVA\_HOME values for the remaining three files

\* $INSTALL\_HOME/utils/quickstart/quickstart.sh  
\* $INSTALL\_HOME/utils/uninstall/uninstall.sh

7) Only in the case that you are using WLS 10.3.6 and the target JDK is using a certified version of JAVA 7 (version 1.7.0\_x) , you will need to copy manually some jar files as follows:

Copy the following files from $INSTALL\_HOME/modules to  the directory  target JDK/jre/lib/endorsed

javax.annotation\_1.0.0.0\_1-0.jar  
javax.xml.bind\_2.1.1.jar  
javax.xml.ws\_2.1.1.jar

8) Restart all the required processes.

All the best