**StartServers.py example**:

import os

if os.environ.has\_key('wlsAdminServer'):

wlsAdminServer = os.environ['wlsAdminServer']

if os.environ.has\_key('nmUserID'):

nmUserID = os.environ['nmUserID']

if os.environ.has\_key('wlsUserID'):

wlsUserID = os.environ['wlsUserID']

if os.environ.has\_key('wlsPassword'):

wlsPassword = os.environ['wlsPassword']

if os.environ.has\_key('wlsAdminURL'):

wlsAdminURL = os.environ['wlsAdminURL']

if os.environ.has\_key('wlsNodeManagerHome'):

wlsNodeManagerHome = os.environ['wlsNodeManagerHome']

if os.environ.has\_key('nmPort'):

nmPort = os.environ['nmPort']

if os.environ.has\_key('wlsHost'):

wlsHost = os.environ['wlsHost']

if os.environ.has\_key('wlsDomainName'):

wlsDomainName = os.environ['wlsDomainName']

if os.environ.has\_key('wlsDomainLocation'):

wlsDomainLocation = os.environ['wlsDomainLocation']

print '-- START NODE MANAGER --';

startNodeManager(verbose='true', NodeManagerHome=wlsNodeManagerHome, ListenPort=nmPort, ListenAddress=wlsHost)

print '-- CONNECT TO NODE MANAGER --';

nmConnect(nmUserID, wlsPassword, wlsHost, nmPort, wlsDomainName, wlsDomainLocation, 'ssl')

print '-- START ADMIN SERVER --';

nmStart(wlsAdminServer)

connect(wlsUserID, wlsPassword, url=wlsAdminURL, adminServerName=wlsAdminServer)

domainRuntime()

serverLifeCycles = cmo.getServerLifeCycleRuntimes()

for serverLifeCycle in serverLifeCycles:

if (serverLifeCycle.getState() != 'RUNNING'):

print 'Starting Server: ' + serverLifeCycle.getName()

start(serverLifeCycle.getName(), 'Server')

exit()

I first import some OS variables which I set with an other script, for example I have a bi\_env script.

**bi\_env**:

export wlsAdminServer="AdminServer"

export nmUserID="nodemanager"

export wlsUserID="weblogic"

export wlsPassword="

"

export wlsHost=`hostname`

export nmPort="9556"

export asPort="7001"

export wlsAdminURL="t3://${wlsHost}:${asPort}"

export wlsDomainName="bifoundation\_domain"

export wlsMiddleWareHome="/u00/oracle/product/11.1.1"

export wlsDomainLocation="${wlsMiddleWareHome}/user\_projects/domains/bifoundation\_domain"

export wlsNodeManagerHome="${wlsMiddleWareHome}/wlserver\_10.3/common/nodemanager"

What you do next is simple, on Linux, but Windows as well, set the environment variables and run the start script. WLST will start all the WLS process in the background as it should be, with the logging in the right place. For example:

. /wlserver\_10.3/server/bin/setWLSEnv.sh

. ~/bi\_env

java weblogic.WLST StartServers.py

You can also use WLST to stop the processes and check the status, to initiate scripts you can use the above code sample.

**StopServers.py**:

import os

if os.environ.has\_key('wlsAdminServer'):

wlsAdminServer = os.environ['wlsAdminServer']

if os.environ.has\_key('nmUserID'):

nmUserID = os.environ['nmUserID']

if os.environ.has\_key('wlsUserID'):

wlsUserID = os.environ['wlsUserID']

if os.environ.has\_key('wlsPassword'):

wlsPassword = os.environ['wlsPassword']

if os.environ.has\_key('wlsAdminURL'):

wlsAdminURL = os.environ['wlsAdminURL']

if os.environ.has\_key('wlsNodeManagerHome'):

wlsNodeManagerHome = os.environ['wlsNodeManagerHome']

if os.environ.has\_key('nmPort'):

nmPort = os.environ['nmPort']

if os.environ.has\_key('wlsHost'):

wlsHost = os.environ['wlsHost']

if os.environ.has\_key('wlsDomainName'):

wlsDomainName = os.environ['wlsDomainName']

if os.environ.has\_key('wlsDomainLocation'):

wlsDomainLocation = os.environ['wlsDomainLocation']

print '-- CONNECT TO NODE MANAGER AND ADMINSERVER --';

nmConnect(nmUserID, wlsPassword, wlsHost, nmPort, wlsDomainName, wlsDomainLocation, 'ssl')

connect(wlsUserID, wlsPassword, url=wlsAdminURL, adminServerName='AdminServer')

domainRuntime()

serverLifeCycles = cmo.getServerLifeCycleRuntimes()

for serverLifeCycle in serverLifeCycles:

if (serverLifeCycle.getState() == 'RUNNING') and (serverLifeCycle.getName() != wlsAdminServer ):

print 'Stopping Server: ' + serverLifeCycle.getName()

nmKill(serverLifeCycle.getName())

print '-- STOPPING NODE MANAGER --'

stopNodeManager()

exit()

**StatusServers.py**:

import os

if os.environ.has\_key('wlsAdminServer'):

wlsAdminServer = os.environ['wlsAdminServer']

if os.environ.has\_key('nmUserID'):

nmUserID = os.environ['nmUserID']

if os.environ.has\_key('wlsUserID'):

wlsUserID = os.environ['wlsUserID']

if os.environ.has\_key('wlsPassword'):

wlsPassword = os.environ['wlsPassword']

if os.environ.has\_key('wlsAdminURL'):

wlsAdminURL = os.environ['wlsAdminURL']

if os.environ.has\_key('wlsNodeManagerHome'):

wlsNodeManagerHome = os.environ['wlsNodeManagerHome']

if os.environ.has\_key('nmPort'):

nmPort = os.environ['nmPort']

if os.environ.has\_key('wlsHost'):

wlsHost = os.environ['wlsHost']

if os.environ.has\_key('wlsDomainName'):

wlsDomainName = os.environ['wlsDomainName']

if os.environ.has\_key('wlsDomainLocation'):

wlsDomainLocation = os.environ['wlsDomainLocation']

nmConnect(nmUserID, wlsPassword, wlsHost, nmPort, wlsDomainName, wlsDomainLocation, 'ssl')

connect(wlsUserID, wlsPassword, url=wlsAdminURL, adminServerName='AdminServer')

domainRuntime()

serverLifeCycles = cmo.getServerLifeCycleRuntimes();

for serverLifeCycle in serverLifeCycles:

print 'Server: ' + serverLifeCycle.getName() + ', State: ' + serverLifeCycle.getState();

if (serverLifeCycle.getState() == 'RUNNING'):

cd('ServerRuntimes/' + serverLifeCycle.getName());

jvm = cmo.getJVMRuntime();

print 'Java VM Vendor: ' + jvm.getJavaVMVendor();

print 'Heap Free Space: ' + repr(jvm.getHeapFreePercent()) + '%';

print 'Heap Size Current: ' + repr(jvm.getHeapSizeCurrent());

print 'Maximum Heap Size: ' + repr(jvm.getHeapSizeMax());

cd('/');

exit()

One thing you must not forget, is to make a boot.properties file in /user\_projects/domains/bifoundation\_domain/servers/AdminServer/security. This file contains the credentials to boot the AdminServer and makes sure the WLST doesn’t come with the following error message:

Error Starting server AdminServer: weblogic.nodemanager.NMException: Exception while starting server 'AdminServer'

wls:/nm/bifoundation\_domain> NMProcess:

NMProcess: java.io.IOException: Server failed to start up. See server output log for more details.

NMProcess: at weblogic.nodemanager.server.ServerManager.start(ServerManager.java:331)

NMProcess: at weblogic.nodemanager.server.Handler.handleStart(Handler.java:567)

NMProcess: at weblogic.nodemanager.server.Handler.handleCommand(Handler.java:116)

NMProcess: at weblogic.nodemanager.server.Handler.run(Handler.java:70)

NMProcess: at java.lang.Thread.run(Thread.java:619)

NMProcess:

NMProcess: Feb 10, 2011 4:56:27 PM weblogic.nodemanager.server.Handler handleStart

NMProcess: WARNING: Exception while starting server 'AdminServer'

NMProcess: java.io.IOException: Server failed to start up. See server output log for more details.

NMProcess: at weblogic.nodemanager.server.ServerManager.start(ServerManager.java:331)

NMProcess: at weblogic.nodemanager.server.Handler.handleStart(Handler.java:567)

NMProcess: at weblogic.nodemanager.server.Handler.handleCommand(Handler.java:116)

NMProcess: at weblogic.nodemanager.server.Handler.run(Handler.java:70)

NMProcess: at java.lang.Thread.run(Thread.java:619)

You boot.properties should look something like:

#Thu Feb 10 17:10:34 CET 2011

password=password

username=weblogic