Copied from:  
<http://oim11gapi.blogspot.com.br/2012/12/creating-taskscheduler-oim-11g-style.html>

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1) Creating the Scheduler Metadata xml

While creating a scheduled task, we have to create a metadata xml file about the task, which holds the information about the scheduled task, like task name, class name, parameter, etc.

mkdir -p /app/CustomSchedTask/SchedulerMetaData/db/

vi /app/CustomSchedTask/SchedulerMetaData/db/SampleScheduler.xml

<scheduledTasks xmlns="http://xmlns.oracle.com/oim/scheduler">

<task>

<name>SampleScheduler</name>

<class>com.oim.SampleScheduler</class>

<description>List User Logins</description>

<retry>5</retry>

</task>

</scheduledTasks>

For more info about the XML structure, check the documentation [here](http://docs.oracle.com/cd/E17904_01/doc.1111/e14309/appsched.htm#CIHBEFDD).

Make sure the file name is the same as the SchedulerName.

Now we can import the xml file into the OIM MetaDataStore.

First export the OIM\_ORACLE\_HOME variable

export OIM\_ORACLE\_HOME=/app/Middleware/Oracle\_IDM1

Now change directory

cd $OIM\_ORACLE\_HOME/server/bin

Make some changes to the weblogic.properties file.

vi weblogic.properties

wls\_servername=oim\_server1

application\_name=OIMMetadata

metadata\_from\_loc=/app/CustomSchedTask/SchedulerMetaData

Now run the [weblogicImportMetadata.sh](http://weblogicimportmetadata.sh/)

./weblogicImportMetadata.sh

While running provide the weblogic details.

Starting import metadata script ....

Please enter your username :**weblogic**

Please enter your password :**Oracle123**

Please enter your server URL [t3://localhost:7001] :**t3://localhost:7001**

Connecting to t3://localhost:7001 with userid weblogic ...

Successfully connected to Admin Server 'AdminServer' that belongs to domain 'iam\_domain’.

Warning: An insecure protocol was used to connect to the

server. To ensure on-the-wire security, the SSL port or

Admin port should be used instead.

Location changed to domainRuntime tree. This is a read-only tree with DomainMBean as the root.

For more help, use help(domainRuntime)

Disconnected from weblogic server: AdminServer

End of importing metadata script ...

Exiting WebLogic Scripting Tool.

Metadata should get imported successfully.

2) Creating the Java file

Now we can write the Scheduler Code. In OIM 11G, the scheduler task java code is slightly different. Here we extend the "**oracle.iam.scheduler.vo.TaskSupport**" class instead of the SchedulerBaseTask class.

package com.oim;

import java.util.HashMap;

import java.util.HashSet;

import java.util.List;

import java.util.Set;

import oracle.iam.identity.usermgmt.api.UserManager;

import oracle.iam.identity.usermgmt.vo.User;

import oracle.iam.platform.Platform;

import oracle.iam.platform.entitymgr.vo.SearchCriteria;

import oracle.iam.platform.entitymgr.vo.SearchCriteria.Operator;

import oracle.iam.scheduler.vo.TaskSupport;

public class SampleScheduler extends TaskSupport {

@Override

public void execute(HashMap arg0) throws Exception {

UserManager usrMgr = Platform.getService(UserManager.class);

SearchCriteria sc = new SearchCriteria("User Login", "\*", Operator.EQUAL);

Set<String> retAttrs = new HashSet<String>();

retAttrs.add("User Login");

List<User> users = usrMgr.search(sc, retAttrs, null);

for(User user : users){

System.out.println(user.getLogin());

}

}

@Override

public HashMap getAttributes() {

// TODO Auto-generated method stub

return null;

}

@Override

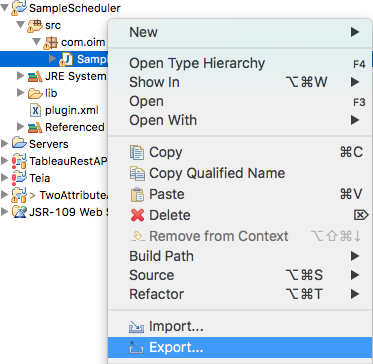
public void setAttributes() {

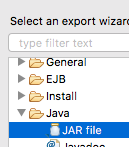
// TODO Auto-generated method stub

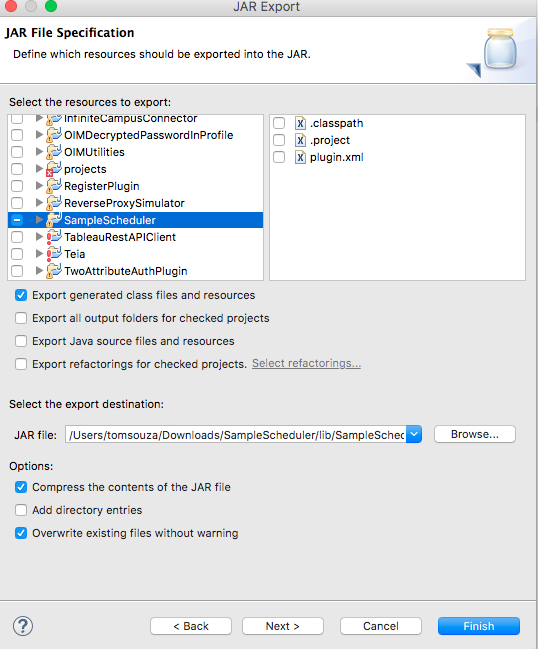
}

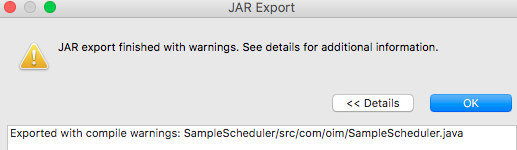
}

After writing the code, create a jar file of the class, either from eclipse or using the jar command.









We have to now create this into a plugin

Create a new folder for the plugin, say SampleScheduler. Create a folder named **lib** in it and place the jar file in it.

3) Create the Plugin xml file

Now we have to create a plugin.xml file under SampleScheduler, specifying the plugin class and plugin point.

Add the following contents in the file.

<?xml version="1.0" encoding="UTF-8"?>

<oimplugins xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>">

<plugins pluginpoint="**oracle.iam.scheduler.vo.TaskSuppor**t">

<plugin pluginclass= "**com.oim.SampleScheduler**"

version="1.0.1" name="SampleScheduler">

</plugin>

</plugins>

</oimplugins>

Now the folder should have the following structure.

./SampleScheduler/

                   plugin.xml

                   lib/

                        SampleScheduler.jar

Create a zip of this folder.



[Mac Users] Make sure you do not have an extra folder above lib and plugin.xml.

Create a zip by selecting lib and plugin.xml, every time you unzip it will create a folder above but remember to do not to zip it up with the other files

4) Registering the plugin

Now that we have the plugin zip file, we have to register it in OIM.

scp ~/Downloads/SampleScheduler.zip oracle@identity.oracleads.com:/app/CustomSchedTask

In the ant.properties, set the WLS\_HOME and the OIM\_HOME variable values.Make sure the wlfullclient.jar is created in the weblogic server lib.

Instructions for this can be found in my previous [blog](http://oim11gapi.blogspot.in/2012/12/starting-with-basics-connecting-and.html).

cd /app/Middleware/Oracle\_IDM1/server/plugin\_utility

vi /app/Middleware/Oracle\_IDM1/server/plugin\_utility/ant.properties

############################################################

# The OIM server directory for OIM. For example: MW\_HOME/Oracle\_IDM1/server

############################################################

oim.home=/app/Middleware/Oracle\_IDM1/server

############################################################

#login file name with path for WAS or WLS

############################################################

login.config=${oim.home}/config/authwl.conf

#login.config=${oim.home}/config/authws.conf

############################################################

# Represents the directory where Oracle Fusion Middleware is installed.

############################################################

mw.home=/app/Middleware

To register the plugin use the following command.

ant -f pluginregistration.xml register

Make sure ant is added into the PATH already.

Provide the OIM server details when asked.

    [input] Enter the oim user id: xelsysadm

    [input]Enter the oim user password:  Oracle123

    [input] Enter the server url [t3://<host>:<port>] : t3://localhost:14000

    [input] Enter name (complete file name with path) of the plugin file: /app/CustomSchedTask/SampleScheduler.zip

     [echo]

     [echo] Plugin Registered

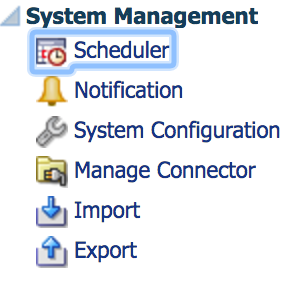
BUILD SUCCESSFUL

5) Creating Scheduled Job in OIM console

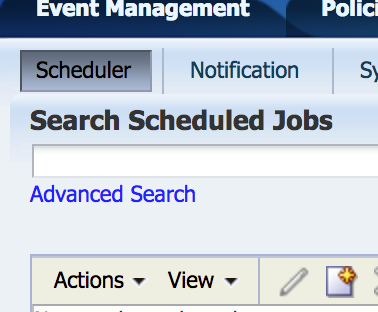
Login to OIM console.

<http://identity.oracleads.com:14000/sysadmin>

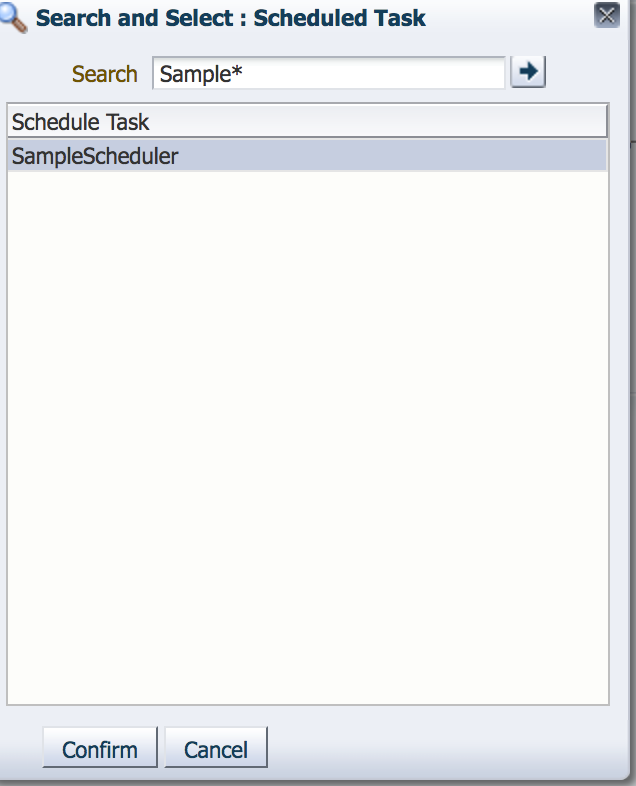
Goto Advanced>System Management>Scheduler.



Click on the new Scheduled Job icon in the left panel.



In the "Task" field search for the new scheduled task we imported.



Fill the other details and Apply.

