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| CGI |
| **Server Build Book for GPS SERVER (Dev/SIT/UAT)** |
| Bell Shared Services Environment |
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# Revision HIstory

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 0.1 | 2013-11-10 | Subhash H. | Initial revision: Setup of GPS DEV Servers |
| 0.2 | 2013-11-21 | Subhash H. | Updated Setup of GPS DEV Servers |
| 0.3 | 2013-11-27 | Patrick G. | Added details of GPS SIT Servers |
| 0.4 | 2013-12-04 | Chahid B. | Added Setup of DEV environment for GPS Online |
| 0.5 | 2013-12-04 | Oleg E. | Added Setup of GPS UAT Servers, multiple corrections throughout the doc |
| 0.6 | 2013-12-05 | Oleg E. | Updated Software Installation section, UAT environment setup |
| 0.7 | 2013-12-06 | Subhash. H | Added SSL configuration steps |
| 0.8 | 2013-12-06 | Oleg E. | Updated configuration of GPS Batch servers |
| 0.9 | 2013-12-23 | Syed K. | Updated SSL configuration and build steps |
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# Table of Contents

[Revision HIstory 0](#_Toc375458931)

[Table of Contents 1](#_Toc375458932)

[1.0 Objective 3](#_Toc375458933)

[2.0 Solution 3](#_Toc375458934)

[DEV/SIT/UAT Environment Preperation for Installation 3](#_Toc375458935)

[3.0 Environment URL 3](#_Toc375458936)

[3.1 Servers List 4](#_Toc375458937)

[3.1.1 DEV Server: 4](#_Toc375458938)

[3.1.2 SIT Server: 4](#_Toc375458939)

[3.1.3 UAT Server: 4](#_Toc375458940)

[3.2 Software 4](#_Toc375458941)

[3.2.1 Required Software: 4](#_Toc375458942)

[3.3 Operating Systems 5](#_Toc375458943)

[3.4 Pre requisites 5](#_Toc375458944)

[4.0 Installing Oracle Software 6](#_Toc375458945)

[4.1 Install JAVA 64 bit 6](#_Toc375458946)

[4.2 Install Unlimited Strength JCE Policy Files 6](#_Toc375458947)

[4.3 Install Weblogic 64 bit 7](#_Toc375458948)

[4.4 Install OEPE 15](#_Toc375458949)

[4.5 Install OSB 16](#_Toc375458950)

[4.6 Install WL Recommended Patches 20](#_Toc375458951)

[5.0 Creating GPS Online Server 25](#_Toc375458952)

[5.1 Creating OSB Domain with scripts 25](#_Toc375458953)

[5.2 Create Node Managers 30](#_Toc375458954)

[5.3 Prepare Application 31](#_Toc375458955)

[5.4 Deploy the Health Check Application. 35](#_Toc375458956)

[6.0 Creating GPS Batch Server 41](#_Toc375458957)

[6.1 Create Weblogic Domain 41](#_Toc375458958)

[6.2 Create Clusters, MachineS and Managed Servers 43](#_Toc375458959)

[6.3 Create Node Managers 44](#_Toc375458960)

[6.4 Configure Keystores 44](#_Toc375458961)

[Data Source and JNDI Name set UP 45](#_Toc375458962)

[7.0 Dev Data Source Credentials 48](#_Toc375458963)

[7.1 SIT Data Source Credentials 50](#_Toc375458964)

[DEV GPS-APP Initial Configuration 51](#_Toc375458965)

[8.0 logs folder creation 51](#_Toc375458966)

[8.1 config-app & apps folder creation 51](#_Toc375458967)

[8.2 startWebLogic.sh modification 51](#_Toc375458968)

[8.3 Folders Creation GPS BATCH 52](#_Toc375458969)

[8.4 WebLogic 2-way SSL Settings for GPS Online 53](#_Toc375458970)

[Configuration at Weblogic Level 53](#_Toc375458971)

[Build and Deploy GPS Online Application 60](#_Toc375458972)

[9.0 Copy config-app Files 60](#_Toc375458973)

[9.1 Build and Deploy GPS Core 60](#_Toc375458974)

[9.2 Build and Deploy GPS Online 60](#_Toc375458975)

[9.3 Unit Test for GPS Online 61](#_Toc375458976)

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# 1.0 Objective

Create DIT/SIT/UAT OSB environments for GPS Online and WebLogic environments for GPS Batch applications.

# 2.0 Solution

# DEV/SIT/UAT Environment Preperation for Installation

This section describes the Software/Services accounts that are needed for GPS Server installation.

## 3.0 Environment URL

|  |  |  |  |
| --- | --- | --- | --- |
| **Environment Grade** | **Environment / Domain Name** | **GPS Application** | **URL** |
| DEV | ESB52G | Online | esb52g-esb.ids.int.bell.ca |
| DEV | WLS52G | Batch | wls52g.ids.int.bell.ca |
| SIT | ESB51G | Online | esb51g-esb.ids.int.bell.ca |
| SIT | WLS51G | Batch | wls51g.ids.int.bell.ca |
| UAT | ESB53G | Online | esb53g-esb.ids.int.bell.ca |
| UAT | WLS53G | Batch | wls53g.ids.int.bell.ca |

## 3.1 Servers List

### 3.1.1 DEV Server:

|  |  |  |
| --- | --- | --- |
| **Server Name** | **Server IP** | **GPS Server** |
| Alic5u.on.bell.ca | 142.113.108.225 | Online |
| aial00522.belldev.dev.bce.ca | 172.20.162.10 | Batch |

### 3.1.2 SIT Server:

|  |  |  |
| --- | --- | --- |
| **Server Name** | **Server IP** | **GPS Server** |
| Alicj6.on.bell.ca | 142.113.108.62 | Online |
| aial00522.belldev.dev.bce.ca | 172.20.162.10 | Batch |

### 3.1.3 UAT Server:

|  |  |  |  |
| --- | --- | --- | --- |
| **Server Name** | **Instance** | **Server IP** | **GPS Server** |
| Alicj6.on.bell.ca | Admin Server | 142.113.108.62 | Online |
| Alicj6.on.bell.ca | Managed server 1 | 142.113.108.62 | Online |
| Alicj6.on.bell.ca | Managed server 2 | 142.113.108.225 | Online |
| aial00522.belldev.dev.bce.ca | Admin Server | 172.20.162.10 | Batch |
| aial00522.belldev.dev.bce.ca | Managed server 1 | 172.20.162.10 | Batch |
| aial00522.belldev.dev.bce.ca | Managed server 2 | 172.20.162.10 | Batch |

## 3.2 Software

### 3.2.1 Required Software:

|  |  |  |
| --- | --- | --- |
| **Software** |  | **File name** |
| JDK 1.7.0\_45 | 64-bit version | jdk-7u45-linux-x64.tar.gz |
| Unlimited JCE Policy |  | UnlimitedJCEPolicyJDK7.zip |
| Weblogic 10.0.3.6 | 64-bit version | wls1036\_generic.jar |
| OSB Installation files | 64-bit version | ofm\_osb\_generic\_11.1.1.7.0\_disk1\_1of1.zip |
| OEPE Archive | 64-bit version | oepe-indigo-all-in-one-11.1.1.8.0.201110211138-linux-gtk-x86\_64.zip |

## 3.3 Operating Systems

OS Release🡺Red Hat Enterprise Linux Server release 6.4 (Santiago) GNU/Linux

Kernal Release 🡺 2.6.32-358.0.1.el6.x86\_64

## 3.4 Pre requisites

* FID should be created

|  |  |
| --- | --- |
| **Environment** | **FID** |
| Dev | devgps |
| SIT | ssoragps |
| UAT | ssoragps |

* Personal Id’s of environment administrators should have access to do **“be devgps”** for DEV and **“be ssoragps”** for SIT and UAT
* Mount point should be configured :

|  |  |
| --- | --- |
| **Environment** | **Mount point** |
| Dev | **/srvrs/devgps/** |
| SIT | **/srvrs/ssoragps/** |
| UAT | **/srvrs/ssoragps/** |

**\*Starting from here all reference to mount point location will be mention as {gps\_home}/**

* Required software should be copied to this location **“{gps\_home}/software/OSB\_11.1.1.7/”**
* Scripts to create the OSB Domain should be copied to this location **“{gps\_home}/scripts”**

## 4.0 Installing Oracle Software

* **Section 4.0 is required for GPS Online and Batch environments**

### 4.1 Install JAVA 64 bit

* Login to server mentioned in section **3.0.1** that you want to set up
* Login to FID **“be devgps** or **ssoragps”** depending on the type of environment to set up
* Browse to location **“{gps\_home}/software/Java**
* Decompress the tar archive jdk-7u45-linux-x64.tar.gz in to the location **“{gps\_home}/”**
* Once you untar it you will have a new directory named **“jdk1.7.0\_45”** in that location.
* Now create a soft link “jdk1.7” for the path **“{gps\_home}/ jdk1.7.0\_45/”** in the location **“{gps\_home}/”**
* Edit the **.bash\_profile** file of the user and enter the below details in order to set the java path**.**

|  |
| --- |
| **export JAVA\_HOME={gps\_home}/jdk1.7/bin/java**  **export PATH={gps\_home}/jdk1.7/bin:$PATH** |

### 4.2 Install Unlimited Strength JCE Policy Files

* **Section 4.2 is required for GPS Online environments only**
  + Browse to location **“{gps\_home}/software/Java**
  + Uncompress UnlimitedJCEPolicyJDK7.zip and extract the jar files
  + Install the unlimited strength policy JAR files to <java-home>/lib/security
    - In case you later decide to revert to the original "strong" but limited policy versions, first make a copy of the original JCE policy files (US\_export\_policy.jar and local\_policy.jar)
    - Replace the strong policy files with the unlimited strength versions extracted in the previous step

### 4.3 Install Weblogic 64 bit

* Browse to location **“{gps\_home}/software/OSB\_11.1.1.7/”**
* Then run the command mentioned in the below screen shot and enter the values as per the requirement as you can see in the screen shot.

|  |
| --- |
| [ssoragps@alic5u OSB\_11.1.1.7]$ 1  Unable to instantiate GUI, defaulting to console mode.  Extracting 0%....................................................................................................100%  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Welcome:  --------  This installer will guide you through the installation of WebLogic 10.3.6.0.  Type "Next" or enter to proceed to the next prompt. If you want to change data entered previously, type "Previous". You may quit the installer at any time by typing "Exit".  Enter [Exit][Next]> Next  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Choose Middleware Home Directory:  ---------------------------------  "Middleware Home" = [Enter new value or use default  "{gps\_home}/Oracle/Middleware"]  Enter new Middleware Home OR [Exit][Previous][Next]> {gps\_home}/Oracle/Middleware  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Choose Middleware Home Directory:  ---------------------------------  "Middleware Home" = [Enter new value or use default  "{gps\_home}/Oracle/Middleware"]  Enter new Middleware Home OR [Exit][Previous][Next]> Next  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Register for Security Updates:  ------------------------------  Provide your email address for security updates and to initiate configuration manager.  1|Email:[]  2|Support Password:[]  3|Receive Security Update:[Yes]  Enter index number to select OR [Exit][Previous][Next]> 3  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Register for Security Updates:  ------------------------------  Provide your email address for security updates and to initiate configuration manager.  "Receive Security Update:" = [Enter new value or use default "Yes"]  Enter [Yes][No]? No  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Register for Security Updates:  ------------------------------  Provide your email address for security updates and to initiate configuration manager.  "Receive Security Update:" = [Enter new value or use default "Yes"]  \*\* Do you wish to bypass initiation of the configuration manager and  \*\* remain uninformed of critical security issues in your configuration?  Enter [Yes][No]? Yes  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Register for Security Updates:  ------------------------------  Provide your email address for security updates and to initiate configuration manager.  1|Email:[]  2|Support Password:[]  3|Receive Security Update:[No]  Enter index number to select OR [Exit][Previous][Next]> Next  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Choose Install Type:  --------------------  Select the type of installation you wish to perform.  ->1|Typical  | Install the following product(s) and component(s):  | - WebLogic Server  | - Oracle Coherence  2|Custom  | Choose software products and components to install and perform optional  |configuration.  Enter index number to select OR [Exit][Previous][Next]> 1  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  JDK Selection (Any \* indicates Oracle Supplied VM):  ---------------------------------------------------  JDK(s) chosen will be installed. Defaults will be used in script string-substitution if installed.  1|Add Local Jdk  2|{gps\_home}/jdk1.7.0\_45[x]  \*Estimated size of installation: 690.2 MB  Enter 1 to add or >= 2 to toggle selection OR [Exit][Previous][Next]> Next  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Choose Product Installation Directories:  ----------------------------------------  Middleware Home Directory: [{gps\_home}/Oracle/Middleware]  Product Installation Directories:  1|WebLogic Server: [{gps\_home}/Oracle/Middleware/wlserver\_10.3]  2|Oracle Coherence: [{gps\_home}/Oracle/Middleware/coherence\_3.7]  Enter index number to select OR [Exit][Previous][Next]> Next  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  The following Products and JDKs will be installed:  --------------------------------------------------  WebLogic Platform 10.3.6.0  |\_\_\_\_\_WebLogic Server  | |\_\_\_\_\_Core Application Server  | |\_\_\_\_\_Administration Console  | |\_\_\_\_\_Configuration Wizard and Upgrade Framework  | |\_\_\_\_\_Web 2.0 HTTP Pub-Sub Server  | |\_\_\_\_\_WebLogic SCA  | |\_\_\_\_\_WebLogic JDBC Drivers  | |\_\_\_\_\_Third Party JDBC Drivers  | |\_\_\_\_\_WebLogic Server Clients  | |\_\_\_\_\_WebLogic Web Server Plugins  | |\_\_\_\_\_UDDI and Xquery Support  | |\_\_\_\_\_Evaluation Database  |\_\_\_\_\_Oracle Coherence  |\_\_\_\_\_Coherence Product Files  \*Estimated size of installation: 690.3 MB  Enter [Exit][Previous][Next]> Next  Oct 04, 2013 12:55:14 PM java.util.prefs.FileSystemPreferences$1 run  INFO: Created user preferences directory.  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Installing files..  0% 25% 50% 75% 100%  [------------|------------|------------|------------]  [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*]  Performing String Substitutions...  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Configuring OCM...  0% 25% 50% 75% 100%  [------------|------------|------------|------------]  [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*]  Creating Domains...  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Installation Complete  Congratulations! Installation is complete.  Press [Enter] to continue or type [Exit]>  <-------------------- Oracle Installer - WebLogic 10.3.6.0 ------------------->  Clean up process in progress ... |

* Press **Enter** at the last Step you see above.

### 4.4 Install OEPE

* **Section 4.4 is required for GPS Online environments**
* Create a directory “**oepe\_11.1.1.8.0**” under the location “**{gps\_home}/Oracle/Middleware**”
* Unzip the OEPE Archive zip file into the new directory mentioned in above step
* You should see the below mentioned files inside the new directory.

|  |
| --- |
| [ssoragps@alic5u oepe\_11.1.1.8.0]$ pwd  {gps\_home}/Oracle/Middleware/oepe\_11.1.1.8.0  [ssoragps@alic5u oepe\_11.1.1.8.0]$ ls -ltr  total 880  -rwxr-xr-x 1 ssoragps ssoragps 16536 Feb 25 2005 epl-v10.html  -rwxr-xr-x 1 ssoragps ssoragps 335360 Dec 11 2006 libcairo-swt.so  -rwxr-xr-x 1 ssoragps ssoragps 9022 Dec 11 2006 icon.xpm  -rwxr-xr-x 1 ssoragps ssoragps 8951 Feb 4 2011 notice.html  -rwxr-xr-x 1 ssoragps ssoragps 71023 Mar 21 2011 eclipse  -rwxr-xr-x 1 ssoragps ssoragps 18909 Sep 9 2011 about.html  drwxr-xr-x 2 ssoragps ssoragps 4096 Sep 9 2011 readme  drwxr-xr-x 2 ssoragps ssoragps 4096 Oct 21 2011 about\_files  drwxr-xr-x 5 ssoragps ssoragps 4096 Oct 21 2011 p2  drwxr-xr-x 50 ssoragps ssoragps 94208 Oct 21 2011 plugins  drwxr-xr-x 174 ssoragps ssoragps 20480 Oct 21 2011 features  -rwxr-xr-x 1 ssoragps ssoragps 286592 Oct 21 2011 artifacts.xml  drwxr-xr-x 5 ssoragps ssoragps 4096 Oct 21 2011 configuration  drwxr-xr-x 2 ssoragps ssoragps 4096 Oct 7 11:09 dropins  -rwxr-xr-x 1 ssoragps ssoragps 598 Oct 7 20:11 eclipse.ini  [ssoragps@alic5u oepe\_11.1.1.8.0]$ |

### 4.5 Install OSB

* **Section 4.5 is required for GPS Online environments**
* Create a directory “**OSB**” under the location “**{gps\_home}/software/OSB\_11.1.1.7/**”
* Unzip the OSB Archive zip file into the new directory mentioned in above step
* You should see the below mentioned files inside the new directory after you unzip.

|  |
| --- |
| [ssoragps@alic5u OSB]$ pwd  {gps\_home}/software/OSB\_11.1.1.7/OSB  [ssoragps@alic5u OSB]$ ls -ltr  total 1167424  -rw-r--r-- 1 ssoragps ssoragps 22806 Mar 12 2013 readme.html  drwxr-xr-x 5 ssoragps ssoragps 4096 Mar 12 2013 Disk1  drwxrwxr-x 3 ssoragps ssoragps 4096 Mar 12 2013 Disk2 |

* Browse to the location “**{gps\_home}/software/OSB\_11.1.1.7/OSB/Disk1/stage/Response/**” and edit the file “**typical\_installtype.rsp**” with correct details needed for installation as shown in the below screenshot and save the file.

|  |
| --- |
| [ssoragps@alic5u Response]$ pwd  {gps\_home}/software/OSB\_11.1.1.7/OSB/Disk1/stage/Response  [ssoragps@alic5u Response]$ vi typical\_installtype.rsp  [ENGINE]  #DO NOT CHANGE THIS.  Response File Version=1.0.0.0.0  [GENERIC]  #Set this to true if you wish to specify a directory where latest updates are downloaded. This option would use the software updates from the specified directory  SPECIFY\_DOWNLOAD\_LOCATION=/tmp  #  SKIP\_SOFTWARE\_UPDATES=true  #If the Software updates are already downloaded and available on your local system, then specify the path to the directory where these patches are available and set SPECIFY\_DOWNLOAD\_LOCATION to true  SOFTWARE\_UPDATES\_DOWNLOAD\_LOCATION=false  #Write the name of the Oracle Home directory. The Oracle Home directory name may only contain alphanumeric , hyphen (-) , dot (.) and underscore (\_) characters, and it must begin with an alphanumeric character.  ORACLE\_HOME={gps\_home}/Oracle/Middleware/OSB  #Write the complete path to a valid Middleware Home.  MIDDLEWARE\_HOME={gps\_home}/Oracle/Middleware  #  #Set this to true if typical installation must be done. If this is set to true then wariable "CUSTOM TYPE" must be set to false as the variables are mutually exclusive  TYPICAL TYPE=false  #Set this to true if custom installation must be done, all other required variables need to be provided. If this is set to true then variable "TYPICAL TYPE" must be set to false as the variables are mutually exclusive.  CUSTOM TYPE=true  #Give the complete path to a valid WebLogic Server Home for the corresponding Middleware Home entered.  WL\_HOME={gps\_home}/Oracle/Middleware/wlserver\_10.3  #Give the complete path to a valid OEPE Home for the corresponding Middleware Home entered. This input will be needed in both typical and custom installations. But in case of custom installation, Oracle Service Bus IDE must be set to true.  OEPE\_HOME={gps\_home}/Oracle/Middleware/oepe\_11.1.1.8.0/  [SYSTEM]  [APPLICATIONS]  [RELATIONSHIPS]  [ssoragps@alic5u Response]$ |

* Create osb inventory folder “**oraInventory**” and create a .loc file named “**oraInst.loc**” with the details mentioned below inside that file.

|  |
| --- |
| **inventory\_loc={gps\_home}/oraInventory**  **inst\_group=ssoragps** |

* Browse to the location “**{gps\_home}/software/OSB\_11.1.1.7/OSB/Disk1/**” and run the command mentioned in the below screenshot.

|  |
| --- |
| [ssoragps@alic5u Disk1]$ ./runInstaller -silent -ResponseFile {gps\_home}/software/OSB\_11.1.1.7/OSB/Disk1/stage/Response/typical\_installtype.rsp –invPtrLoc {gps\_home}/oraInventory oraInst.loc –jreLoc {gps\_home}/jdk1.7/jre  Starting Oracle Universal Installer...  Checking if CPU speed is above 300 MHz. Actual 1200 MHz Passed  Checking Temp space: must be greater than 150 MB. Actual 2805 MB Passed  Checking swap space: must be greater than 512 MB. Actual 16389 MB Passed  Preparing to launch Oracle Universal Installer from /tmp/OraInstall2013-10-07\_11-13-30AM. Please wait ...[ssoragps@alic5u Disk1]$ Log: {gps\_home}/oraInventory/logs/install2013-10-07\_11-13-30AM.log  Copyright (c) 1996, 2013, Oracle and/or its affiliates. All rights reserved.  Reading response file..  Verifying data......  Copying Files...  -----------20%----------40%----------60%----------80%--------100%  The installation of Oracle AS Common Toplevel Component, Oracle Service Bus completed successfully.  [ssoragps@alic5u Disk1]$ |

### 4.6 Install WL Recommended Patches

* **Section 4.6 is required for GPS Online environments**
* We have 2 important Patches that we install in this server which has to be downloaded and uploaded to the location “**{gps\_home}/software/OSB\_11.1.1.7/Recommended\_WL\_Patches**”
* Copy the “**patch\_catalog\_xxxxx.xml & G86E.jar”** files to the this location “**{gps\_home}/Oracle/Middleware/utils/bsu/cache\_dir/**”
* Then to install the patch browse to the location “**{gps\_home}/Oracle/Middleware/utils/bsu/**” and run the command mentioned in below screenshot.

|  |
| --- |
| [ssoragps@alic5u bsu]$ ./bsu.sh -prod\_dir={gps\_home}/Oracle/Middleware/wlserver\_10.3 -patchlist=G86E -verbose -install  Checking for conflicts..  No conflict(s) detected  Starting installation of Patch ID: G86E  Installing {gps\_home}/Oracle/Middleware/utils/bsu/cache\_dir/G86E.jar  Extracting {gps\_home}/Oracle/Middleware/patch\_wls1036/patch\_jars/BUG14322089\_1036.jar  Updating {gps\_home}/Oracle/Middleware/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar  Old manifest value: Class-Path=  New manifest value: Class-Path=../../../patch\_jars/BUG14322089\_1036.jar  Result: Success |

* If the patch installation is success you will get the “**Result :Success”** at the end.
* Then to install the second patch Copy the “**patch\_catalog\_xxxxx.xml & L51R.jar”** files to the this location “**{gps\_home}/Oracle/Middleware/utils/bsu/cache\_dir/**”
* Then to install the second patch browse to the location “**{gps\_home}/Oracle/Middleware/utils/bsu/**” and run the command mentioned in below screenshot.

|  |
| --- |
| [ssoragps@alic5u bsu]$ ./bsu.sh -prod\_dir={gps\_home}/Oracle/Middleware/wlserver\_10.3 -patchlist=L51R -verbose -install  Checking for conflicts..  No conflict(s) detected  Starting installation of Patch ID: L51R  Installing {gps\_home}/Oracle/Middleware/utils/bsu/cache\_dir/L51R.jar  Extracting {gps\_home}/Oracle/Middleware/patch\_wls1036/patch\_jars/BUG16619891\_1036.jar  Extracting {gps\_home}/Oracle/Middleware/patch\_wls1036/patch\_jars/com.bea.core.stax2\_2.0.0.0\_3-0-3.jar  Updating {gps\_home}/Oracle/Middleware/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar  Old manifest value: Class-Path=../../../patch\_jars/BUG14322089\_1036.jar  New manifest value: Class-Path=../../../patch\_jars/BUG16619891\_1036.jar ../../../patch\_jars/com.bea.core.stax2\_2.0.0.0\_3-0-3.jar ../../../patch\_jars/BUG14322089\_1036.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wseeclient.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/modules/com.bea.core.descriptor.wl.binding\_1.4.0.0.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlclient.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webserviceclient+ssl.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/jms-notran-adp.rar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/jms-xa-adp.rar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/schema/weblogic-domain-binding.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/common/bin/wlsifconfig.sh into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/jdbcdrivers.xml into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/consoleapp/webapp/WEB-INF/lib/console.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/bugsfixed/WLS-PSU-bugsfixed.txt  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/bugsfixed/16619891-WLS-10.3.6.0.5\_PSU\_WebServices-ClientSide-Configuration-README.txt  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wseeclient.jar  Extracting {gps\_home}/Oracle/Middleware/modules/com.bea.core.descriptor.wl.binding\_1.4.0.0.jar  Extracting {gps\_home}/Oracle/Middleware/modules/com.bea.core.stax2\_2.0.0.0\_3-0-3.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlclient.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webserviceclient+ssl.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/jms-notran-adp.rar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/jms-xa-adp.rar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/schema/weblogic-domain-binding.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/common/bin/wlsifconfig.sh  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/jdbcdrivers.xml  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/consoleapp/webapp/WEB-INF/lib/console.jar  Backing up {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml2\_1.0.0.0\_6-2-0-0.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wls-api.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml\_1.0.0.0\_6-2-0-0.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wljmsclient.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsaft3client.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webserviceclient.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlthint3client.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wseeclient.zip into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Backing up {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsafclient.jar into {gps\_home}/Oracle/Middleware/patch\_wls1036/backup/backup.jar  Extracting {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml2\_1.0.0.0\_6-2-0-0.jar4365.tmp  Merging {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml2\_1.0.0.0\_6-2-0-0.jar4365.tmp with {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml2\_1.0.0.0\_6-2-0-0.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wls-api.jar4940.tmp  Merging {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wls-api.jar4940.tmp with {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wls-api.jar  Extracting {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml\_1.0.0.0\_6-2-0-0.jar65429.tmp  Merging {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml\_1.0.0.0\_6-2-0-0.jar65429.tmp with {gps\_home}/Oracle/Middleware/modules/com.bea.core.bea.opensaml\_1.0.0.0\_6-2-0-0.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wljmsclient.jar25716.tmp  Merging {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wljmsclient.jar25716.tmp with {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wljmsclient.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsaft3client.jar62609.tmp  Merging {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsaft3client.jar62609.tmp with {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsaft3client.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webserviceclient.jar29442.tmp  Merging {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webserviceclient.jar29442.tmp with {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webserviceclient.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlthint3client.jar63844.tmp  Merging {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlthint3client.jar63844.tmp with {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlthint3client.jar  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wseeclient.zip61284.tmp  Merging {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wseeclient.zip61284.tmp with {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wseeclient.zip  Extracting {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsafclient.jar21404.tmp  Merging {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsafclient.jar21404.tmp with {gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/wlsafclient.jar  Result: Success |

* If the patch installation is success you will get the “**Result :Success”** at the end.
* Always install the **Patch ID:G86E** First and then **Patch ID: L51R.**

## 5.0 Creating GPS Online Server

### 5.1 Creating OSB Domain with scripts

* **Section 5.1 is required for GPS Online environments**
* To create the domain with scripts we have to run the below mentioned scripts which is in screenshot below.

|  |
| --- |
| [ssoragps@alic5u GPSDomainCreation]$ ./createDomain.sh ESBXXG.properties  Preparing to create domain  CLASSPATH={gps\_home}/Oracle/Middleware/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:{gps\_home}/Oracle/Middleware/patch\_ocp371/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:{gps\_home}/jdk1.7.0\_45/lib/tools.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/weblogic\_sp.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/weblogic.jar:{gps\_home}/Oracle/Middleware/modules/features/weblogic.server.modules\_10.3.6.0.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webservices.jar:{gps\_home}/Oracle/Middleware/modules/org.apache.ant\_1.7.1/lib/ant-all.jar:{gps\_home}/Oracle/Middleware/modules/net.sf.antcontrib\_1.1.0.0\_1-0b2/lib/ant-contrib.jar:  PATH={gps\_home}/Oracle/Middleware/wlserver\_10.3/server/bin:{gps\_home}/Oracle/Middleware/modules/org.apache.ant\_1.7.1/bin:{gps\_home}/jdk1.7.0\_45/jre/bin:{gps\_home}/jdk1.7.0\_45/bin:{gps\_home}/jdk1.7/bin:/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin:{gps\_home}/bin  Your environment has been set.  Creating Domain  JAVA\_HOME={gps\_home}/jdk1.7  Initializing WebLogic Scripting Tool (WLST) ...  Jython scans all the jar files it can find at first startup. Depending on the system, this process may take a few minutes to complete, and WLST may not return a prompt right away.  Welcome to WebLogic Server Administration Scripting Shell  Type help() for help on available commands  Properties from ESBXXG.properties  admin.ESBXXG\_ADMIN.listenAddress: 142.113.108.225  admin.ESBXXG\_ADMIN.listenPort: 12201  admin.ESBXXG\_ADMIN.memory: -Xms1024m -Xmx1536m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=512m -Xverify:none  admin.ESBXXG\_ADMIN.sslPort: 12202  application.healthcheck.file: healthcheck/healthcheck.war  application.healthcheck.target: ESBXXG\_ADMIN  domain.admin.url: t3://142.113.108.225:12201  domain.javaVendor: SUN  domain.name: ESBXXG  domain.password: \*\*\*\*\*\*\*\*  domain.servers.arguments: -Djava.security.policy=${WL\_HOME}/server/lib/weblogic.policy -Dweblogic.ProductionModeEnabled=true -Dweblogic.security.SSL.allowSmallRSAExponent=true -Dweblogic.security.SSL.ignoreHostnameVerification=true -da -Dplatform.home=${WL\_HOME} -Dwls.home=${WL\_HOME}/server -Dweblogic.home=${WL\_HOME}/server -Ddomain.home=${DOMAIN\_HOME}/${domain.name} -Dcommon.components.home=${BEA\_HOME}/oracle\_common -Djrf.version=11.1.1 -Dorg.apache.commons.logging.Log=org.apache.commons.logging.impl.Jdk14Logger -Djrockit.optfile=${BEA\_HOME}/oracle\_common/modules/oracle.jrf\_11.1.1/jrocket\_optfile.txt -Doracle.domain.config.dir=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig -Doracle.server.config.dir=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/servers/@SERVER\_NAME@ -Doracle.security.jps.config=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/jps-config.xml -Djava.protocol.handler.pkgs=oracle.mds.net.protocol -Digf.arisidbeans.carmlloc=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/carml -Digf.arisidstack.home=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/arisidprovider -Dweblogic.alternateTypesDirectory=${BEA\_HOME}/oracle\_common/modules/oracle.ossoiap\_11.1.1,${BEA\_HOME}/oracle\_common/modules/oracle.oamprovider\_11.1.1 -Dweblogic.jdbc.remoteEnabled=false -Dweblogic.management.discover=true -Dwlw.iterativeDev=false -Dwlw.testConsole=false -Dwlw.logErrorsToConsole=false -Dweblogic.ext.dirs=${BEA\_HOME}/patch\_wls1036/profiles/default/sysext\_manifest\_classpath:${BEA\_HOME}/patch\_oepe1033/profiles/default/sysext\_manifest\_classpath:${BEA\_HOME}/patch\_ocp371/profiles/default/sysext\_manifest\_classpath -Dfeedback.log4j.config=${DOMAIN\_HOME}/${domain.name}/applications/feedback/feedbacklog4jconfig.xml -Dweblogic.security.SSL.enforceConstraints=off -Dcom.sun.jndi.ldap.connect.pool.protocol=ssl -Dcom.sun.jndi.ldap.connect.pool.maxsize=20 -Dcom.sun.jndi.ldap.connect.pool.timeout=300000  domain.servers.classpath: ${BEA\_HOME}/oracle\_common/modules/oracle.jdbc\_11.1.1/ojdbc6dms.jar:${BEA\_HOME}/Oracle\_OSB1/lib/osb-server-modules-ref.jar:${BEA\_HOME}/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${BEA\_HOME}/patch\_oepe1040/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${BEA\_HOME}/patch\_ocp371/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${JAVA\_HOME}/lib/tools.jar:${WL\_HOME}/server/lib/weblogic\_sp.jar:${WL\_HOME}/server/lib/weblogic.jar:${BEA\_HOME}/modules/features/weblogic.server.modules\_10.3.6.0.jar:${WL\_HOME}/server/lib/webservices.jar:${BEA\_HOME}/modules/org.apache.ant\_1.7.1/lib/ant-all.jar:${BEA\_HOME}/modules/net.sf.antcontrib\_1.1.0.0\_1-0b2/lib/ant-contrib.jar:${BEA\_HOME}/Oracle\_OSB1/soa/modules/oracle.soa.common.adapters\_11.1.1/oracle.soa.common.adapters.jar:${BEA\_HOME}/oracle\_common/modules/oracle.jrf\_11.1.1/jrf.jar:${BEA\_HOME}/Oracle\_OSB1/lib/version.jar:${BEA\_HOME}/Oracle\_OSB1/lib/alsb.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-ant.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-common.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-core.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-dameon.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/classes:${BEA\_HOME}/Oracle\_OSB1/lib/external/log4j\_1.2.8.jar:${DOMAIN\_HOME}/${domain.name}/config/osb:${WL\_HOME}/common/derby/lib/derbynet.jar:${WL\_HOME}/common/derby/lib/derbyclient.jar:${WL\_HOME}/server/lib/xqrl.jar  domain.servers.memory: -Xms1024m -Xmx1536m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=512m -Xverify:none  domain.servers.ssl.identity.keypassphrase: IDSBellCA13  domain.servers.ssl.identity.privatekeyalias: idsbellcaservices13  domain.servers.ssl.identity.storelocation: ${DOMAIN\_HOME}/${domain.name}/security/GPS\_Identity.jks  domain.servers.ssl.identity.storepassphrase: bellcaservices2011  domain.servers.ssl.identity.storetype: jks  domain.servers.ssl.trust.storelocation: ${DOMAIN\_HOME}/${domain.name}/security/GPS\_Trust.jks  domain.servers.ssl.trust.storepassphrase: bellcaservices2011  domain.servers.ssl.trust.storetype: jks  domain.target: ESBXXG\_ADMIN  domain.type: osb  domain.username: weblogic  log.fileCount: 20  log.fileMinSize: 50000  log.numberOfFilesLimited: true  log.severity: Info  startmode: prod  Environment variables:  BEA\_HOME={gps\_home}/Oracle/Middleware  WL\_HOME={gps\_home}/Oracle/Middleware/wlserver\_10.3  OSB\_HOME={gps\_home}/Oracle/Middleware/Oracle\_OSB1  JAVA\_HOME={gps\_home}/jdk1.7  DOMAIN\_HOME={gps\_home}/domains  Loading base template and overrides  [expanding "{gps\_home}/Oracle/Middleware/wlserver\_10.3/common/templates/domains/wls.jar" to "/tmp/template.8226253379114150985.tmp"]  [copying "{gps\_home}/scripts/GPSDomainCreation/src/../template-override" to "/tmp/template.8226253379114150985.tmp"]  [creating "/tmp/template.4760410778090486902.jar" from "/tmp/template.8226253379114150985.tmp"]  Adding template {gps\_home}/Oracle/Middleware/Oracle\_OSB1/common/templates/applications/wlsb\_single\_server.jar  fileMinSize 50000  numberOfFilesLimited 1  logFileSeverity Info  stdoutSeverity Info  fileCount 20  Log("ESBXXG")  User("weblogic")  Configuring Machines...  Configuring Servers...  Configuring administration server...  Log("ESBXXG\_ADMIN")  Configuring managed servers ...  Configuring JDBC Resources...  Configuring JDBC Multipool Resources...  drw- ESBXXG\_ADMIN  Please wait, updating domain at {gps\_home}/domains/ESBXXG  [copying "template-files/admin" to "{gps\_home}/domains/ESBXXG"]  [ssoragps@alic5u GPSDomainCreation]$ |

,

* For clustered domains, create the **FileStore\_auto\_1, FileStore\_auto\_2, WseeFileStore\_auto\_1, WseeFileStore\_auto\_2** directories at **{gps\_home}/domains/ESBXXG** as required if they were not created automatically

### 5.2 Create Node Managers

* **Section 5.2 is required for GPS Online UAT environment only**
* Create a node manager on each machine running the following command
  + ./createNodeManager.sh esbXXXCluster.properties
* Start node managers at {gps\_home}/nodamanger on each machine
* Enrol node managers on each machine
  + ./enrollNodeManager.sh esbXXXCluster.properties
* Start managed servers through WL console

### 5.3 Prepare Application

* **Section 5.3 is required for GPS Online environments**

|  |
| --- |
| [ssoragps@alic5u GPSDomainCreation]$ ./prepareApps.sh ESBXXG.properties  Setting up application directory  CLASSPATH={gps\_home}/Oracle/Middleware/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:{gps\_home}/Oracle/Middleware/patch\_ocp371/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:{gps\_home}/jdk1.7.0\_45/lib/tools.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/weblogic\_sp.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/weblogic.jar:{gps\_home}/Oracle/Middleware/modules/features/weblogic.server.modules\_10.3.6.0.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webservices.jar:{gps\_home}/Oracle/Middleware/modules/org.apache.ant\_1.7.1/lib/ant-all.jar:{gps\_home}/Oracle/Middleware/modules/net.sf.antcontrib\_1.1.0.0\_1-0b2/lib/ant-contrib.jar:  PATH={gps\_home}/Oracle/Middleware/wlserver\_10.3/server/bin:{gps\_home}/Oracle/Middleware/modules/org.apache.ant\_1.7.1/bin:{gps\_home}/jdk1.7.0\_45/jre/bin:{gps\_home}/jdk1.7.0\_45/bin:{gps\_home}/jdk1.7/bin:/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin:{gps\_home}/bin  Your environment has been set.  Initializing WebLogic Scripting Tool (WLST) ...  Welcome to WebLogic Server Administration Scripting Shell  Type help() for help on available commands  Properties from ESBXXG.properties  admin.ESBXXG\_ADMIN.listenAddress: 142.113.108.225  admin.ESBXXG\_ADMIN.listenPort: 12201  admin.ESBXXG\_ADMIN.memory: -Xms1024m -Xmx1536m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=512m -Xverify:none  admin.ESBXXG\_ADMIN.sslPort: 12202  application.healthcheck.file: healthcheck/healthcheck.war  application.healthcheck.target: ESBXXG\_ADMIN  domain.admin.url: t3://142.113.108.225:12201  domain.javaVendor: SUN  domain.name: ESBXXG  domain.password: \*\*\*\*\*\*\*\*  domain.servers.arguments: -Djava.security.policy=${WL\_HOME}/server/lib/weblogic.policy -Dweblogic.ProductionModeEnabled=true -Dweblogic.security.SSL.allowSmallRSAExponent=true -Dweblogic.security.SSL.ignoreHostnameVerification=true -da -Dplatform.home=${WL\_HOME} -Dwls.home=${WL\_HOME}/server -Dweblogic.home=${WL\_HOME}/server -Ddomain.home=${DOMAIN\_HOME}/${domain.name} -Dcommon.components.home=${BEA\_HOME}/oracle\_common -Djrf.version=11.1.1 -Dorg.apache.commons.logging.Log=org.apache.commons.logging.impl.Jdk14Logger -Djrockit.optfile=${BEA\_HOME}/oracle\_common/modules/oracle.jrf\_11.1.1/jrocket\_optfile.txt -Doracle.domain.config.dir=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig -Doracle.server.config.dir=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/servers/@SERVER\_NAME@ -Doracle.security.jps.config=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/jps-config.xml -Djava.protocol.handler.pkgs=oracle.mds.net.protocol -Digf.arisidbeans.carmlloc=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/carml -Digf.arisidstack.home=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/arisidprovider -Dweblogic.alternateTypesDirectory=${BEA\_HOME}/oracle\_common/modules/oracle.ossoiap\_11.1.1,${BEA\_HOME}/oracle\_common/modules/oracle.oamprovider\_11.1.1 -Dweblogic.jdbc.remoteEnabled=false -Dweblogic.management.discover=true -Dwlw.iterativeDev=false -Dwlw.testConsole=false -Dwlw.logErrorsToConsole=false -Dweblogic.ext.dirs=${BEA\_HOME}/patch\_wls1036/profiles/default/sysext\_manifest\_classpath:${BEA\_HOME}/patch\_oepe1033/profiles/default/sysext\_manifest\_classpath:${BEA\_HOME}/patch\_ocp371/profiles/default/sysext\_manifest\_classpath -Dfeedback.log4j.config=${DOMAIN\_HOME}/${domain.name}/applications/feedback/feedbacklog4jconfig.xml -Dweblogic.security.SSL.enforceConstraints=off -Dcom.sun.jndi.ldap.connect.pool.protocol=ssl -Dcom.sun.jndi.ldap.connect.pool.maxsize=20 -Dcom.sun.jndi.ldap.connect.pool.timeout=300000  domain.servers.classpath: ${BEA\_HOME}/oracle\_common/modules/oracle.jdbc\_11.1.1/ojdbc6dms.jar:${BEA\_HOME}/Oracle\_OSB1/lib/osb-server-modules-ref.jar:${BEA\_HOME}/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${BEA\_HOME}/patch\_oepe1040/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${BEA\_HOME}/patch\_ocp371/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${JAVA\_HOME}/lib/tools.jar:${WL\_HOME}/server/lib/weblogic\_sp.jar:${WL\_HOME}/server/lib/weblogic.jar:${BEA\_HOME}/modules/features/weblogic.server.modules\_10.3.6.0.jar:${WL\_HOME}/server/lib/webservices.jar:${BEA\_HOME}/modules/org.apache.ant\_1.7.1/lib/ant-all.jar:${BEA\_HOME}/modules/net.sf.antcontrib\_1.1.0.0\_1-0b2/lib/ant-contrib.jar:${BEA\_HOME}/Oracle\_OSB1/soa/modules/oracle.soa.common.adapters\_11.1.1/oracle.soa.common.adapters.jar:${BEA\_HOME}/oracle\_common/modules/oracle.jrf\_11.1.1/jrf.jar:${BEA\_HOME}/Oracle\_OSB1/lib/version.jar:${BEA\_HOME}/Oracle\_OSB1/lib/alsb.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-ant.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-common.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-core.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-dameon.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/classes:${BEA\_HOME}/Oracle\_OSB1/lib/external/log4j\_1.2.8.jar:${DOMAIN\_HOME}/${domain.name}/config/osb:${WL\_HOME}/common/derby/lib/derbynet.jar:${WL\_HOME}/common/derby/lib/derbyclient.jar:${WL\_HOME}/server/lib/xqrl.jar  domain.servers.memory: -Xms1024m -Xmx1536m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=512m -Xverify:none  domain.servers.ssl.identity.keypassphrase: IDSBellCA13  domain.servers.ssl.identity.privatekeyalias: idsbellcaservices13  domain.servers.ssl.identity.storelocation: ${DOMAIN\_HOME}/${domain.name}/security/GPS\_Identity.jks  domain.servers.ssl.identity.storepassphrase: bellcaservices2011  domain.servers.ssl.identity.storetype: jks  domain.servers.ssl.trust.storelocation: ${DOMAIN\_HOME}/${domain.name}/security/GPS\_Trust.jks  domain.servers.ssl.trust.storepassphrase: bellcaservices2011  domain.servers.ssl.trust.storetype: jks  domain.target: ESBXXG\_ADMIN  domain.type: osb  domain.username: weblogic  log.fileCount: 20  log.fileMinSize: 50000  log.numberOfFilesLimited: true  log.severity: Info  startmode: prod  Environment variables:  BEA\_HOME={gps\_home}/Oracle/Middleware  WL\_HOME={gps\_home}/Oracle/Middleware/wlserver\_10.3  OSB\_HOME={gps\_home}/Oracle/Middleware/Oracle\_OSB1  JAVA\_HOME={gps\_home}/jdk1.7  DOMAIN\_HOME={gps\_home}/domains  NODEMANAGER\_HOME={gps\_home}/nodemanager  Copying applications from {gps\_home}/scripts/GPSDomainCreation/src/../applications to {gps\_home}/domains/ESBXXG/applications  [copying "{gps\_home}/scripts/GPSDomainCreation/src/../applications" to "{gps\_home}/domains/ESBXXG/applications"] |

* Browse to the location “**{gps\_home}/domains/ESBXXG**” and change the permission of the default start script “**startWebLogic.sh**” to read only. “**chmod 640 startWebLogic.sh**”
* Then change the permission to the newly created script “**startAdminServer.sh**” to be executable. “**chmod 740 startAdminServer.sh**”
* Then start the weblogic with the command “**./ startAdminServer.sh”.** Please find the screenshot below.

|  |
| --- |
| [ssoragps@alic5u ESBXXG]$ ./startAdminServer.sh  Starting ESBXXG\_ADMIN in background  [ssoragps@alic5u ESBXXG]$ nohup: redirecting stderr to stdout  [ssoragps@alic5u ESBXXG]$ |

### 5.4 Deploy the Health Check Application.

* **Section 5.4 is required for GPS Online environments**

|  |
| --- |
| [ssoragps@alic5u GPSDomainCreation]$ ./deployApps.sh ESBXXG.properties  Preparing to deploy applications to domain  CLASSPATH={gps\_home}/Oracle/Middleware/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:{gps\_home}/Oracle/Middleware/patch\_ocp371/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:{gps\_home}/jdk1.7.0\_45/lib/tools.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/weblogic\_sp.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/weblogic.jar:{gps\_home}/Oracle/Middleware/modules/features/weblogic.server.modules\_10.3.6.0.jar:{gps\_home}/Oracle/Middleware/wlserver\_10.3/server/lib/webservices.jar:{gps\_home}/Oracle/Middleware/modules/org.apache.ant\_1.7.1/lib/ant-all.jar:{gps\_home}/Oracle/Middleware/modules/net.sf.antcontrib\_1.1.0.0\_1-0b2/lib/ant-contrib.jar:  PATH={gps\_home}/Oracle/Middleware/wlserver\_10.3/server/bin:{gps\_home}/Oracle/Middleware/modules/org.apache.ant\_1.7.1/bin:{gps\_home}/jdk1.7.0\_45/jre/bin:{gps\_home}/jdk1.7.0\_45/bin:{gps\_home}/jdk1.7/bin:/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin:{gps\_home}/bin  Your environment has been set.  Deploying applications  Initializing WebLogic Scripting Tool (WLST) ...  Welcome to WebLogic Server Administration Scripting Shell  Type help() for help on available commands  Properties from ESBXXG.properties  admin.ESBXXG\_ADMIN.listenAddress: 142.113.108.225  admin.ESBXXG\_ADMIN.listenPort: 12201  admin.ESBXXG\_ADMIN.memory: -Xms1024m -Xmx1536m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=512m -Xverify:none  admin.ESBXXG\_ADMIN.sslPort: 12202  application.healthcheck.file: healthcheck/healthcheck.war  application.healthcheck.target: ESBXXG\_ADMIN  domain.admin.url: t3://142.113.108.225:12201  domain.javaVendor: SUN  domain.name: ESBXXG  domain.password: \*\*\*\*\*\*\*\*  domain.servers.arguments: -Djava.security.policy=${WL\_HOME}/server/lib/weblogic.policy -Dweblogic.ProductionModeEnabled=true -Dweblogic.security.SSL.allowSmallRSAExponent=true -Dweblogic.security.SSL.ignoreHostnameVerification=true -da -Dplatform.home=${WL\_HOME} -Dwls.home=${WL\_HOME}/server -Dweblogic.home=${WL\_HOME}/server -Ddomain.home=${DOMAIN\_HOME}/${domain.name} -Dcommon.components.home=${BEA\_HOME}/oracle\_common -Djrf.version=11.1.1 -Dorg.apache.commons.logging.Log=org.apache.commons.logging.impl.Jdk14Logger -Djrockit.optfile=${BEA\_HOME}/oracle\_common/modules/oracle.jrf\_11.1.1/jrocket\_optfile.txt -Doracle.domain.config.dir=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig -Doracle.server.config.dir=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/servers/@SERVER\_NAME@ -Doracle.security.jps.config=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/jps-config.xml -Djava.protocol.handler.pkgs=oracle.mds.net.protocol -Digf.arisidbeans.carmlloc=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/carml -Digf.arisidstack.home=${DOMAIN\_HOME}/${domain.name}/config/fmwconfig/arisidprovider -Dweblogic.alternateTypesDirectory=${BEA\_HOME}/oracle\_common/modules/oracle.ossoiap\_11.1.1,${BEA\_HOME}/oracle\_common/modules/oracle.oamprovider\_11.1.1 -Dweblogic.jdbc.remoteEnabled=false -Dweblogic.management.discover=true -Dwlw.iterativeDev=false -Dwlw.testConsole=false -Dwlw.logErrorsToConsole=false -Dweblogic.ext.dirs=${BEA\_HOME}/patch\_wls1036/profiles/default/sysext\_manifest\_classpath:${BEA\_HOME}/patch\_oepe1033/profiles/default/sysext\_manifest\_classpath:${BEA\_HOME}/patch\_ocp371/profiles/default/sysext\_manifest\_classpath -Dfeedback.log4j.config=${DOMAIN\_HOME}/${domain.name}/applications/feedback/feedbacklog4jconfig.xml -Dweblogic.security.SSL.enforceConstraints=off -Dcom.sun.jndi.ldap.connect.pool.protocol=ssl -Dcom.sun.jndi.ldap.connect.pool.maxsize=20 -Dcom.sun.jndi.ldap.connect.pool.timeout=300000  domain.servers.classpath: ${BEA\_HOME}/oracle\_common/modules/oracle.jdbc\_11.1.1/ojdbc6dms.jar:${BEA\_HOME}/Oracle\_OSB1/lib/osb-server-modules-ref.jar:${BEA\_HOME}/patch\_wls1036/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${BEA\_HOME}/patch\_oepe1040/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${BEA\_HOME}/patch\_ocp371/profiles/default/sys\_manifest\_classpath/weblogic\_patch.jar:${JAVA\_HOME}/lib/tools.jar:${WL\_HOME}/server/lib/weblogic\_sp.jar:${WL\_HOME}/server/lib/weblogic.jar:${BEA\_HOME}/modules/features/weblogic.server.modules\_10.3.6.0.jar:${WL\_HOME}/server/lib/webservices.jar:${BEA\_HOME}/modules/org.apache.ant\_1.7.1/lib/ant-all.jar:${BEA\_HOME}/modules/net.sf.antcontrib\_1.1.0.0\_1-0b2/lib/ant-contrib.jar:${BEA\_HOME}/Oracle\_OSB1/soa/modules/oracle.soa.common.adapters\_11.1.1/oracle.soa.common.adapters.jar:${BEA\_HOME}/oracle\_common/modules/oracle.jrf\_11.1.1/jrf.jar:${BEA\_HOME}/Oracle\_OSB1/lib/version.jar:${BEA\_HOME}/Oracle\_OSB1/lib/alsb.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-ant.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-common.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-core.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/lib/j2ssh-dameon.jar:${BEA\_HOME}/Oracle\_OSB1/3rdparty/classes:${BEA\_HOME}/Oracle\_OSB1/lib/external/log4j\_1.2.8.jar:${DOMAIN\_HOME}/${domain.name}/config/osb:${WL\_HOME}/common/derby/lib/derbynet.jar:${WL\_HOME}/common/derby/lib/derbyclient.jar:${WL\_HOME}/server/lib/xqrl.jar  domain.servers.memory: -Xms1024m -Xmx1536m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=512m -Xverify:none  domain.servers.ssl.identity.keypassphrase: IDSBellCA13  domain.servers.ssl.identity.privatekeyalias: idsbellcaservices13  domain.servers.ssl.identity.storelocation: ${DOMAIN\_HOME}/${domain.name}/security/GPS\_Identity.jks  domain.servers.ssl.identity.storepassphrase: bellcaservices2011  domain.servers.ssl.identity.storetype: jks  domain.servers.ssl.trust.storelocation: ${DOMAIN\_HOME}/${domain.name}/security/GPS\_Trust.jks  domain.servers.ssl.trust.storepassphrase: bellcaservices2011  domain.servers.ssl.trust.storetype: jks  domain.target: ESBXXG\_ADMIN  domain.type: osb  domain.username: weblogic  log.fileCount: 20  log.fileMinSize: 50000  log.numberOfFilesLimited: true  log.severity: Info  startmode: prod  Environment variables:  BEA\_HOME={gps\_home}/Oracle/Middleware  WL\_HOME={gps\_home}/Oracle/Middleware/wlserver\_10.3  OSB\_HOME={gps\_home}/Oracle/Middleware/Oracle\_OSB1  JAVA\_HOME={gps\_home}/jdk1.7  DOMAIN\_HOME={gps\_home}/domains  NODEMANAGER\_HOME={gps\_home}/nodemanager  Deploying applications...  Connecting to administrative server  Connecting to t3://142.113.108.225:12201 with userid weblogic ...  Successfully connected to Admin Server 'ESBXXG\_ADMIN' that belongs to domain 'ESBXXG'.  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.  Deploying application healthcheck  Deploying application from {gps\_home}/domains/ESBXXG/applications/healthcheck/healthcheck.war to targets ESBXXG\_ADMIN (upload=false) ...  <Oct 9, 2013 6:49:09 AM EDT> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating deploy operation for application, healthcheck [archive: {gps\_home}/domains/ESBXXG/applications/healthcheck/healthcheck.war], to ESBXXG\_ADMIN .>  .Completed the deployment of Application with status completed  Current Status of your Deployment:  Deployment command type: deploy  Deployment State : completed  Deployment Message : [Deployer:149194]Operation 'deploy' on application 'healthcheck' has succeeded on 'ESBXXG\_ADMIN'  Starting application healthcheck.  <Oct 9, 2013 6:49:14 AM EDT> <Info> <J2EE Deployment SPI> <BEA-260121> <Initiating start operation for application, healthcheck [archive: null], to ESBXXG\_ADMIN .>  [Deployer:149194]Operation 'start' on application 'healthcheck' has succeeded on 'ESBXXG\_ADMIN'Completed the start of Application with status completed  Current Status of your Deployment:  Deployment command type: start  Deployment State : completed  Deployment Message : [Deployer:149194]Operation 'start' on application 'healthcheck' has succeeded on 'ESBXXG\_ADMIN'  Location changed to edit tree. This is a writable tree with  DomainMBean as the root. To make changes you will need to start  an edit session via startEdit().  For more help, use help(edit)  Starting an edit session ...  Started edit session, please be sure to save and activate your  changes once you are done.  Saving all your changes ...  Saved all your changes successfully.  Activating all your changes, this may take a while ...  The edit lock associated with this edit session is released  once the activation is completed.  Activation completed  Disconnected from weblogic server: ESBXXG\_ADMIN  Applications have been deployed  <Oct 9, 2013 6:49:19 AM EDT> <Warning> <JNDI> <BEA-050001> <WLContext.close() was called in a different thread than the one in which it was created.>  [ssoragps@alic5u GPSDomainCreation]$ |

## 6.0 Creating GPS Batch Server

### 6.1 Create Weblogic Domain

* **Section 6.1 is required for GPS Batch environments**
* Browse to the location “**{gps\_home}/Oracle/Middleware/wlserver\_10.3/common/bin**” then run the command “./config.sh”
* Select the Create a new WebLogic domain option and click **Next**.
* In the Select Domain Source screen, retain the Generate a domain configured automatically to support the following products: option and click **Next**.
* In the Edit Domain information give the domain Name as “**WLSXXG**”
* In the Configure Administrator Username and Password page, provide the following values “Name 🡺 weblogic” “User password 🡺 {password}” “Confirm user password 🡺 {password}”” Description 🡺 don’t change let this be default”
* In the Domain Mode Configuration: select as “**Production Mode**”
* In the Java SDK Selection: select “**Sun SDK 1.7.0\_45 @ {gps\_home}/jdk1.7.0\_45**” and go Next
* In the Select Optional Configuration: Select “**Administration Server**” and go Next
* In Configure the Administration Server: provide the following values.
  + Name 🡺 WLSXXG\_ADMIN
  + Listen address 🡺 All Local Addresses
  + Listen port 🡺 env\_listen\_port (refer to environment listen port table below)
  + SSL listen port 🡺 env\_ssl\_listen\_port
  + SSL enabled 🡺 true” then Next

|  |  |  |  |
| --- | --- | --- | --- |
| **Environment** | **Server** | **Listen port** | **SSL Listen port** |
| DEV | Admin Server | 12251 | 12252 |
| SIT | Admin Server | 12151 | 12152 |
| UAT | Admin Server | 12351 | 12352 |
| UAT | Managed server 1 | 12361 | 12362 |
| UAT | Managed server 2 | 12371 | 12372 |

* Once you press Enter key after Next you will see the below screen shot as a confirmation of successful domain creation.

|  |
| --- |
| <------------------- Fusion Middleware Configuration Wizard ------------------>  Configure the Administration Server:  ------------------------------------  Each WebLogic Server domain must have one Administration Server. The  Administration Server is used to perform administrative tasks.  | Name | Value |  \_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|  1| \*Name: | WLSXXG\_ADMIN |  2| \*Listen address: | All Local Addresses |  3| Listen port: | 12251 |  4| SSL listen port: | 12252 |  5| SSL enabled: | true |  Use above value or select another option:  1 - Modify "Name"  2 - Modify "Listen address"  3 - Modify "Listen port"  4 - Modify "SSL listen port"  5 - Modify "SSL enabled"  6 - Discard Changes  Enter option number to select OR [Exit][Previous][Next]> Next  <------------------- Fusion Middleware Configuration Wizard ------------------>  Creating Domain...  0% 25% 50% 75% 100%  [------------|------------|------------|------------]  [\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*]  \*\*\*\* Domain Created Successfully! \*\*\*\* |

### 6.2 Create Clusters, MachineS and Managed Servers

* **Section 6.2 is required for GPS Batch UAT environment only**
* Configure managed servers
  + Name: WLS53G\_SERVER\_01
    - Listen address: 172.20.162.10
    - Listen port: 12361
    - SSL listen port: 12362
    - SSL enabled: yes
  + Name: WLS53G\_ SERVER\_02
    - Listen address: 172.20.162.10
    - Listen port: 12371
    - SSL listen port: 12372
    - SSL enabled: yes
* Configure Clusters
  + Name: WLS53G\_CLUSTER
    - Cluster messaging mode: unicast
    - Cluster address: 172.20.162.10:12361,172.20.162.10:12371
* Assign Servers to Clusters
  + Both WLS53G\_SERVER\_01 and WLS53G\_SERVER\_02 should be assigned to WLS53G\_CLUSTER
* Configure Unix Machines
  + Name: WL1
    - Node manager listen address: 172.20.162.10
    - Node manager listen port: 12388
* Assign Servers to Machines
  + Both WLS53G\_SERVER\_01 and WLS53G\_SERVER\_02 should be assigned to WL1

### 6.3 Create Node Managers

* **Section 5.0.2 is required for GPS Batch UAT environment only**
* Create node manager home directory /srvrs/ssoragps/nodemanager/
* Create node manager log directory /srvrs/ssoragps/nodemanager/logs
* Place node manager start script at the node manager home directory
* Place nodemanager.properties file at node manager home directory with the following properties
  + DomainsFile=/srvrs/ssoragps/nodemanager/nodemanager.domains
  + NodeManagerHome=/srvrs/ssoragps/nodemanager
  + ListenAddress=172.20.162.10
  + ListenPort=12388

### 6.4 Configure Keystores

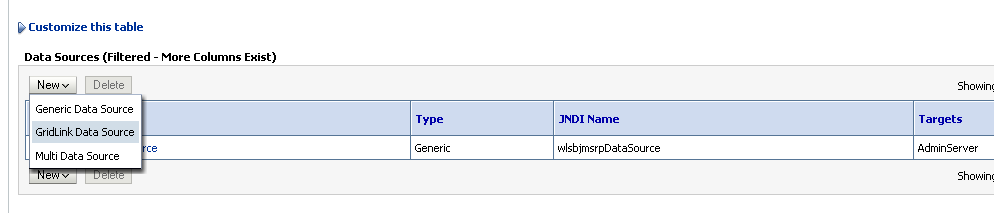
* Install GPS\_Identity.jks and GPS\_Trust.jks to {domain\_home}/security directory
* On WL console, navigate to Server Configuration->Keystores and set the following properties
  + Keystores: Custom Identity and Custom Trust
  + Custom Identity Keystore: /srvrs/ssoragps/domains/WLS53G/security/GPS\_Identity.jks
  + Custom Identity Keystore Type: jks
  + Custom Trust Keystore: /srvrs/ssoragps/domains/WLS53G/security/GPS\_Trust.jks
  + Custom Trust Keystore Type: jks
* Navigate to Server Configuration->SSL and set the following properties
  + Identity and Trust Locations: Keystores
  + Private Key Location: from Custom Identity Keystore

# Data Source and JNDI Name set UP

Bellow are the steps to perform in all GPS environments to set up the Data Source and JNDI Name.

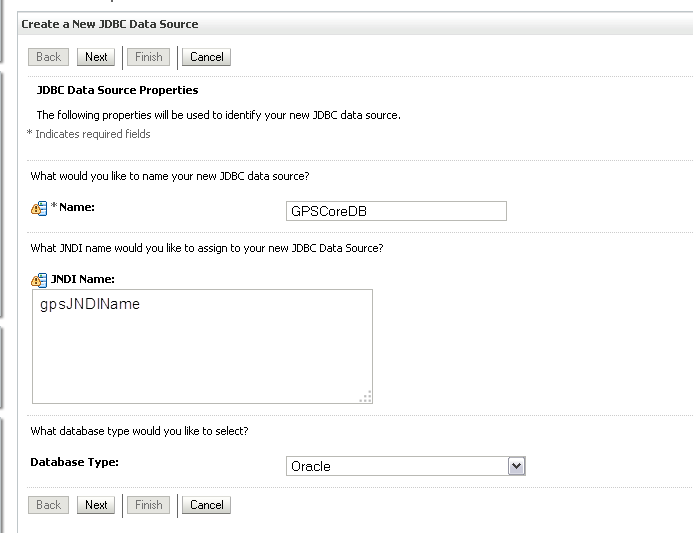
Create a new JDBC datasource with the below information.

Go to Services 🡪 Data Sources 🡪 Configuration



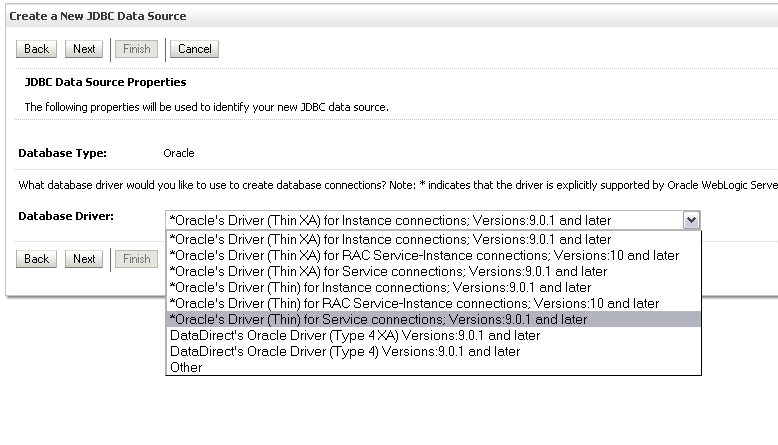
Name: GPSCoreDB

JNDI Name: gpsJNDIName

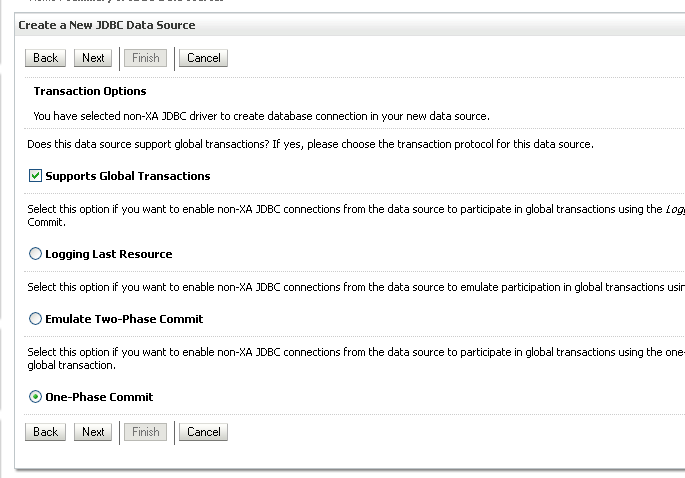


Click Next

Select Database Driver as “Oracle’s Driver (thin) for Service connections”

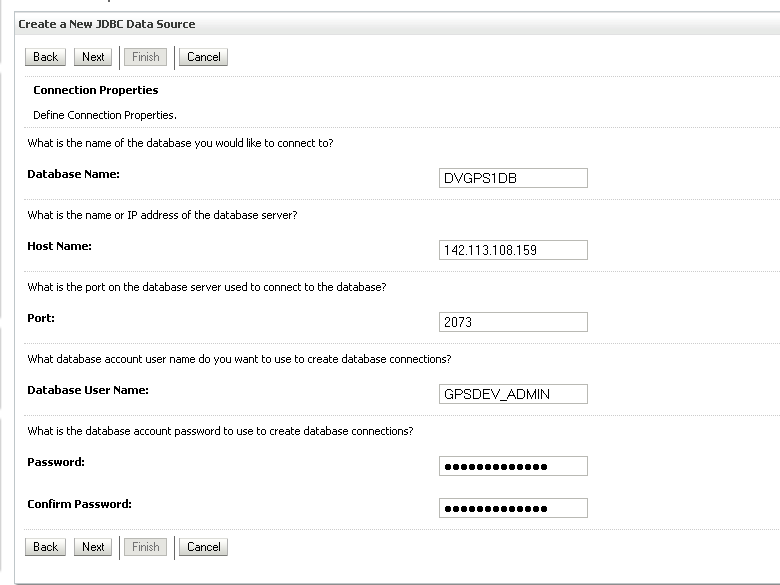


Click Next



Click Next

## 7.0 Dev Data Source Credentials



Provide the below information

Database Name: DVGPS1DB

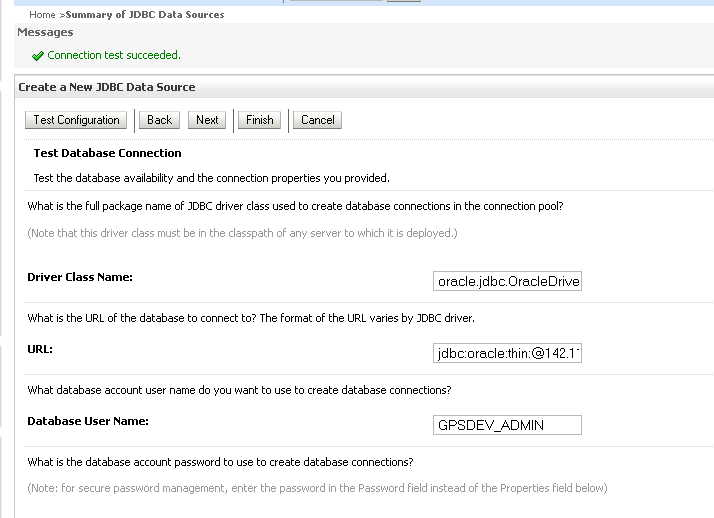
Host Name: 142.113.108.159

Port: 2073

Username: GPSDEV\_ADMIN

Password: gpsdev\_admin1

Click Next and Test Configurations



Click Finish

Click on the newly created JDBC connection 🡪 Targets

Target the JDBC to Managed server node and save.

## 7.1 SIT Data Source Credentials

Database Name: DVGPS1DB

Host Name: 142.113.108.159

Port: 2073

Username: GPSSIT\_ADMIN

Password: gpssit\_admin1

# DEV GPS-APP Initial Configuration

Below, values for {domain\_name} are:

DEV: ESB52G

SIT: ESB51G

UAT: ESB53G

## 8.0 logs folder creation

Login to alic5u server with the functional ID (devgps)

cd /srvrs/devgps/Oracle/Middleware/user\_projects/domains/{domain\_name}/

mkdir logs

## 8.1 config-app & apps folder creation

Login to alic5u server with the functional ID (devgps)

cd /srvrs/devgps/Oracle/Middleware/user\_projects/domains/{domain\_name}/

mkdir config-app

mkdir apps

## 8.2 startWebLogic.sh modification

Login to alic5u server with the functional ID (devgps)

Startup script change

cd /srvrs/devgps/Oracle/Middleware/user\_projects/domains/{domain\_name}/bin

take a backup of the startWebLogic.sh script

Edit the script with below details.

--------------------------------------------------------------------------------

# Call setDomainEnv here.

DOMAIN\_HOME="/srvrs/devgps/Oracle/Middleware/user\_projects/domains/{domain\_name}/"

. ${DOMAIN\_HOME}/bin/setDomainEnv.sh $\*

SAVE\_JAVA\_OPTIONS="${JAVA\_OPTIONS}"

SERVER\_CONFIG="${DOMAIN\_HOME}/config-app"

SAVE\_CLASSPATH="${CLASSPATH}:${SERVER\_CONFIG}"

--------------------------------------------------------------------------------------------

Save the file

## 8.3 Folders Creation GPS BATCH

Under /srvrs/devgps/Oracle/Middleware/user\_projects/domains/{domain\_name}/

Create the following folders under the domain folder:

/gpsBatchFolders/gps/pmt/archive/bss/inbound

/gpsBatchFolders/gps/pmt/archive/processor/Moneris/inbound

/gpsBatchFolders/gps/pmt/bss/inbound

/gpsBatchFolders/gps/pmt/bss/inprocess

/gpsBatchFolders/gps/pmt/bss/outbound

/gpsBatchFolders/gps/pmt/bss/temp

/gpsBatchFolders/gps/pmt/dts/outbound

/gpsBatchFolders/gps/pmt/processor/inbound/moneris

/gpsBatchFolders/gps/testFiles/pmt/archive/bss/inbound

/gpsBatchFolders/gps/testFiles/pmt/archive/processor/Moneris/inbound

/gpsBatchFolders/gps/testFiles/pmt/bss/inbound

/gpsBatchFolders/gps/testFiles/pmt/bss/inprocess

/gpsBatchFolders/gps/testFiles/pmt/bss/outbound

/gpsBatchFolders/gps/testFiles/pmt/bss/temp

/gpsBatchFolders/gps/testFiles/pmt/dts/outbound

/gpsBatchFolders/gps/testFiles/pmt/processor/inbound/moneris

## 8.4 WebLogic 2-way SSL Settings for GPS Online

## Configuration at Weblogic Level

If the current configuration of the Weblogic is not set to use 2-way SSL then follow the steps below.

In the Weblogic Administration console, click on the ***managed server 🡪 Configuration 🡪 SSL***

Click on ***Advanced***.

Under ***Advanced***,

Under **Two Way Client Cert Behavior** select **Client Certs Requested And Enforced**

Check the ***Use Server Certs*** option

Save the changes.

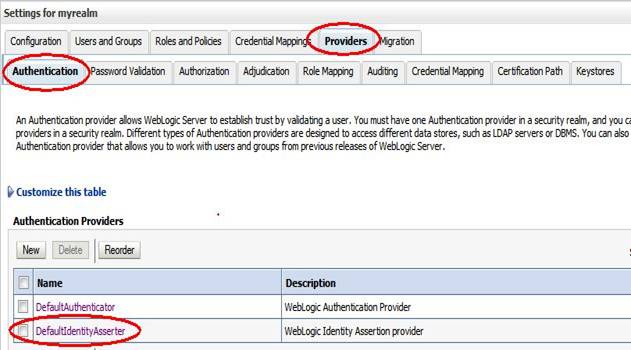
In the Weblogic Administration console, click on the ***managed server 🡪 Configuration 🡪 General***

Check the ***SSL Listen Port Enabled*** option and save

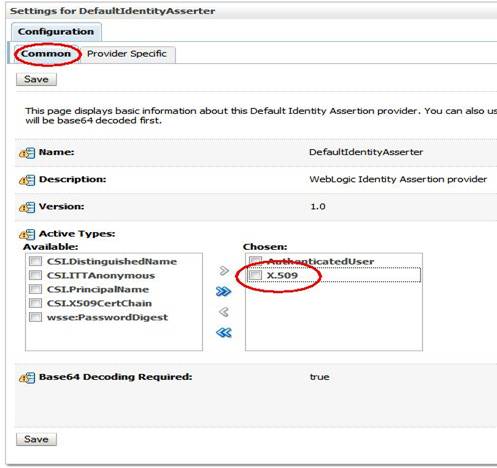
**Steps to Enable X509**

Access the WebLogic Server console and open the Security Realm.

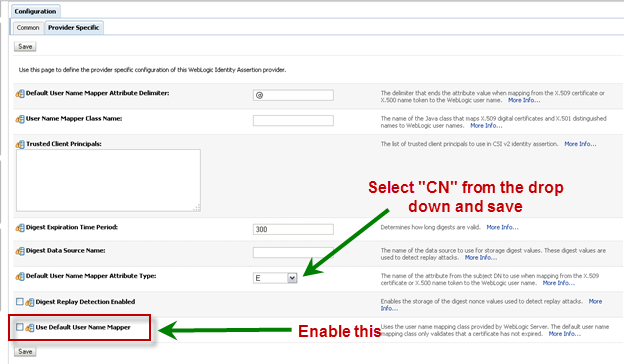
Within this, we can access the **DefaultIdentityAsserter** under the ***Providers -> Authentication*** tab.



Next, within the Default Identity Asserter, under the common tab, move the X.509 token type from the available list to the chosen list and **Save**.

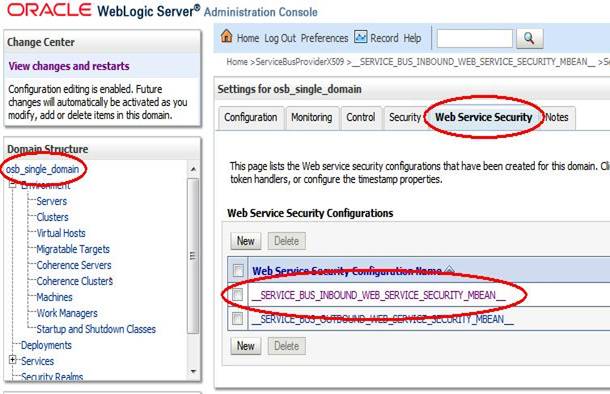


Then Under the Provider Specific tab enable the option for “Use Default User Name Mapper” and select CN from the drop down for “Default User Name Mapper Attribute Type”. Save and Restart the environment.

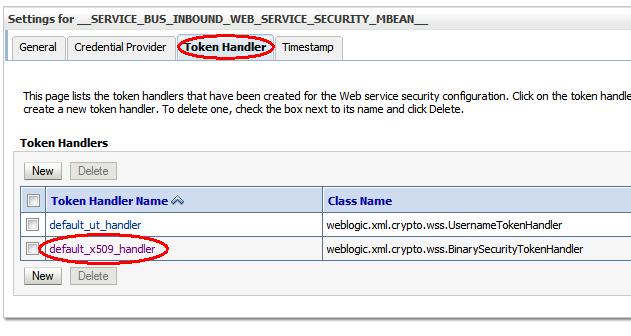


**Add OSB Inbound WebServices**

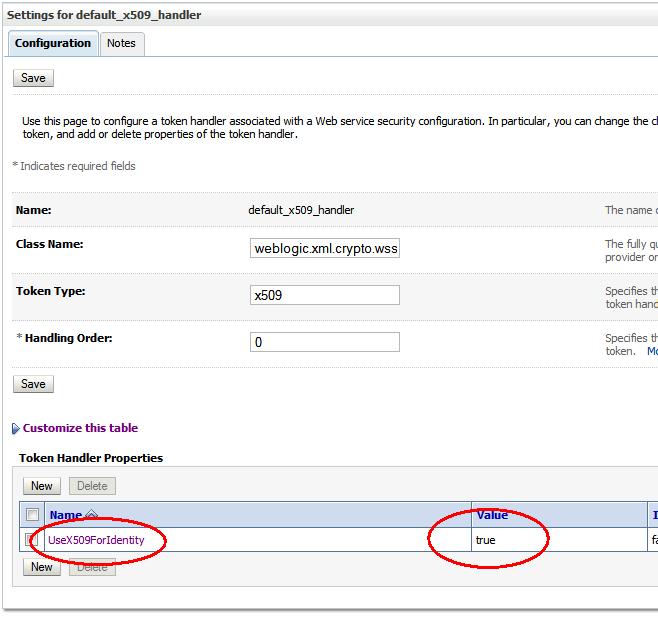
Now we need to add the X.509 certificates to the inbound and outbound Web Service to allow the specific users to be correctly authenticated.



Go to Token handler



We then need to, within the default\_x509\_handler, set up the Token Handler Property of UseX509ForIdentity to be true.

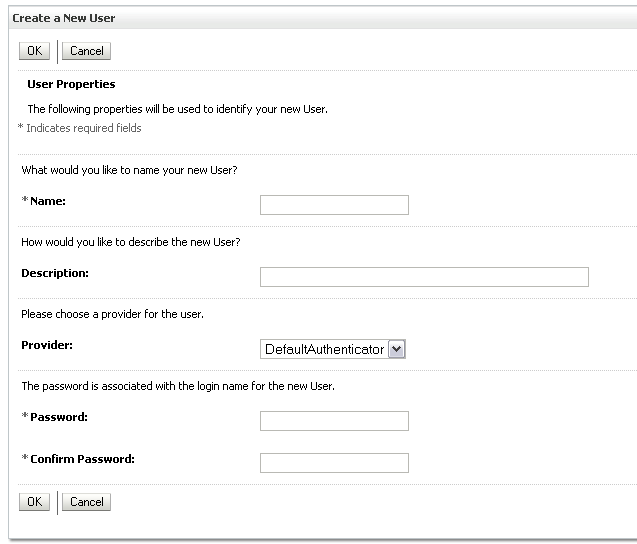


**Creating a Weblogic user id to map the certificate DN for authentication**

**Go to *Security Realms >myrealm >Users and Groups > Create a new user.***

**Username = CN name of the client certificate**

**Password = same as Keystore password so that we remember it**



# Build and Deploy GPS Online Application

## 9.0 Copy config-app Files

Login to alic5u server with the functional ID (devgps)

cp –R /tmp/config-app/ /srvrs/devgps/domains/{domain\_name}/config-app/

There will be 8 files

## 9.1 Build and Deploy GPS Core

cd /srvrs/devgps/domains/{domain\_name}

mkdir apps

cp /tmp/GPSCoreEJBProjectEAR.ear /srvrs/devgps/domains/{domain\_name}/apps/

cp /tmp/gpsCoreEAR.ear /srvrs/devgps/domains/{domain\_name}/apps/

## 9.2 Build and Deploy GPS Online

Login to alic5u.on.bell.ca with functional id be devgps

cd /srvrs/devgps/build

**Change the Properties file name in setEnv.sh**

vi setEnv.sh

current = PROP\_FILE="build-main.properties"

New     = PROP\_FILE="build-gpsol.properties"

**Extract code from TFS**

cd /srvrs/devgps/build

./build.sh getlatest gpsol

**Build Jar file from extracted code**

cd /srvrs/devgps/build

./build.sh build gpsol

**Deploy the code in GPSOnline OSB console**

* Login to OSB Console of GPSOnline
* Create a session
* Go to System Administration 🡪 Import resources 🡪 Import (import the jar file from local machine)
* Activate the session

## 9.3 Unit Test for GPS Online

Refer to run book attached below



# Build and Deploy GPS BATCH Application

## 9.0 Copy config-app Files

Login to **aial00522** server with the functional ID (devgps)

cp –R /tmp/config-app/

/srvrs/devgps/Oracle/Middleware/user\_projects/domains/{domain\_name}/config-app/

There will be 31 files

## 9.1 Build and Deploy GPS Core

To be completed.

cd /srvrs/devgps/Oracle/Middleware/user\_projects/domains/{domain\_name}

mkdir apps

cp /tmp/gpsBatchEAR.ear /srvrs/devgps/domains/{domain\_name}/apps/

## 9.2 Unit Test for GPS Batch