

FAQ 1-Z7JOUUC Steps for installing and configuring FMW 11g Oracle WebLogic and Oracle Web Tier for an SSB-only Web Server

This note provides steps for installing and configuring Oracle WebLogic and Oracle Web Tier for a Banner 8 environment for Self Service Banner (SSB).

This installation does not include Forms so cannot be used for INB.

For an installation that will run INB as well as SSB, see:  
FAQ 1-BTZNOZ Banner 8 and Oracle Fusion Middleware (OFM) Weblogic 11g Installation On Unix

In this note the installation is performed on a Red Hat Linux v5 64-bit server called wlserver.sct.com.  
This note is applicable to Unix also.

The oracle owner's \$HOME is /aux/oracle  
This is also the \$ORACLE\_BASE directory.  
Before the installation verify \$ORACLE\_HOME is unset.  
During the installation the MIDDLEWARE\_HOME (/aux/oracle/middleware) and ORACLE\_HOME (/aux/oracle/middleware/Oracle\_WT1) will be set and configured.

These documents may also be reviewed:

FAQ 1-UJMT36 Oracle Doc ID 1074140.1 How to Install a FMW Web Tier Managed by Fusion Middleware Control (EM)

=====  
Oracle Installation  
=====

=====  
JDK Install  
=====

For Red Hat Linux 64-bit you must install the Sun JDK 6 64-bit.  
At the time of this writing the latest version was 1.6.0\_27.  
The jdk-6u27-linux-x64-rpm.bin can be downloaded from  
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

JDK 1.6.0\_27 can be installed by executing the jdk-6u27-linux-x64-rpm.bin file.  
The following directory will be created after successful installation of the file.

    /usr/java/jdk1.6.0\_27/bin

Add the above directory to the users' PATH by editing the /etc/bash\_profile.

Verify the correct version of java is installed.  
    su - oracle

```
which java
/usr/java/jdk1.6.0_27/bin/java
java -version
java version "1.6.0_27"
Java(TM) SE Runtime Environment (build 1.6.0_27-b07)
Java HotSpot(TM) 64-Bit Server VM (build 20.2-b06, mixed
mode)
```

```
=====
Oracle Web Tier Download
=====
```

At the time of this writing the latest version is 11.1.1.5.  
Oracle may update the versions.

1. Download Weblogic Server

For example, if you are downloading from <http://edelivery.oracle.com>  
for Linux x86-64 OS:

```
Select Product Oracle Fusion Middleware
Select "Oracle Fusion Middleware 11g Media Pack for Linux x86-64"
version 11.1.1.5.0
Oracle WebLogic Server 11gR1 (10.3.5) Generic and Coherence
V26046-01.zip
```

2. Download Web Tier:

```
Oracle Fusion Middleware Web Tier Utilities 11g (11.1.1.2.0) for
Linux x86-64
V18757-01
Oracle Fusion Middleware Web Tier Utilities 11g Patch Set 4
(11.1.1.5.0) for Linux x86-64
V26009-01
```

```
=====
Install WebLogic
=====
```

Install WebLogic from a VNC X-Windows client. Unzip the file and execute  
java -d64 -jar wls1035\_generic.jar

```
Welcome Screen
Hit Next
Choose Middleware Home Directory
Create a new Middleware Home - /aux/oracle/middleware
Hit Next
Register for Security Updates
Hit Next to bypass (this is not a mandatory step)
Choose Install Type
Select Typical
```

[NOTE: A "Typical" install will install Oracle Coherence in

WebLogic 10.3.3 and above. Coherence requires separate licensing. Check your license agreement for products licensed. If you are unsure of your products licensed and you license WebLogic from SunGardHE, contact your SunGardHE Account Manager. If you do not want Oracle Coherence to be installed with WebLogic 10.3.3 or above, select the "Custom" install option and then uncheck Coherence. ]

Hit Next  
JDK Selection  
Select the 1.6.0\_27 version  
Hit Next  
Choose Product Installation Directories  
WebLogic Server - /aux/oracle/middleware/wlserver\_10.3  
Hit Next  
Installation Summary  
Hit Next  
Installation Complete  
Uncheck Run Quickstart  
Hit Next

\*\*\*Important: If you do \*not\* uncheck "Run Quickstart", WebLogic and Web Tier will not install successfully because a WebLogic default domain will be installed \*\*\*\*

=====  
Install Web Tier  
=====

#### 1. Install 11.1.1.2 Web Tier

From a VNC or X-Windows client, unzip the files and execute  
cd Disk1  
./runInstaller

Specify Inventory Directory screen (this may not come up)  
Directory: /aux/oracle/oraInventory  
Group name: dba  
(If prompted, run the createCentralInventory.sh as directed.)

Welcome Screen

Hit Next

Select Installation Type

Select Install Software - Do Not Configure

Hit Next

Prerequisite Checks

Hit Next when all checks are green

Specify Installation Location

Oracle Middleware Home Location - /aux/oracle/middleware

Oracle Home directory - Oracle\_WT1

Specify Security Updates

Hit Next

Installation Summary

Hit Install

```
Installation Progress
  When 100% complete, Hit Next
Installation Complete
  Hit Finish
```

## 2. Install 11.1.1.5 Web Tier

```
From a VNC or X-Windows client, unzip the files and execute
  cd Disk1
  ./runInstaller
```

```
Welcome Screen
  Hit Next
Specify Installation Location
  Oracle Middleware Home Location - /aux/oracle/middleware
  Oracle Home directory - Oracle_WT1
Specify Security Updates
  Hit Next
Installation Summary
  Hit Install
Installation Progress
  When 100% complete, Hit Next
Installation Complete
  Hit Finish
```

## 3. Configure Weblogic Server

```
From a VNC or X-Windows client
  cd $ORACLE_HOME/common/bin [for example:
                                /aux/oracle/middleware/Oracle_WT1/common/bin]
  ./config.sh
```

```
Welcome Screen
  Select Create a new Weblogic domain
  Hit Next
Select Domain Source
  Select Generate a domain configured automatically to support the
  following products:
  Check:
    Basic Weblogic Server Domain (not the SIP version)
    Oracle Enterprise Manager
    Oracle JRF
  Hit Next
Specify Domain Name and Location
  Domain Name - base_domain
  Domain Location - /aux/oracle/middleware/user_projects/domains
  Application Location
    - /aux/oracle/middleware/user_projects/applications
  Hit Next
Configure Administrator User Name and Password
  User Name: weblogic
  Password: manager1
  Confirm: manager1
  Hit Next
```

Configure Server Start Mode and JDK

Choose Development Mode or Production Mode

[For this example, we are choosing Development Mode - it automatically creates the boot.properties file used later for starting the Admin Server]

Choose /usr/java/jdk1.6.0\_27

Hit Next

Select Optional Configuration

If port 7001 is not free on this machine, you must check:

"Administration Server" here, hit Next, and change to a different port number. You can also select SSL enabled on this screen and set an SSL Listen port.

Hit Next

Configuration Summary

Hit Create

Creating Domain

When 100% complete, Hit Done

#### 4. Start the WebLogic Admin Server

To start WebLogic, a script similar to the example startWebLogic attached can be used.

To execute,

```
su - oracle
```

```
startWebLogic >>startWebLogic.log 2>&1 &
```

#### 5. Configure Web Tier

From a VNC or X-Windows client

```
cd $ORACLE_HOME/bin
```

```
./config.sh
```

Welcome Screen

Hit Next

Configure Components

Check all options

Hit Next

Specify Weblogic Domain

Domain Host Name - wlserver.sct.com

Domain Port No - 7001

User Name - weblogic

Password - manager1

Hit Next

Specify Component Details

Instance Home Location -

```
/aux/oracle/middleware/Oracle_WT1/instances/instance1
```

Instance Name - instance1

OHS Component Name - ohs1

Web Cache Component Name - webcache1

Hit Next

Web Cache Administrator Password

Web Cache Administrator Password - manager1

```
    Confirm password - manager1
    Hit Next
Configure Ports
    Select Auto Port Configuration
    Hit Next
Specify Security Updates
    Hit Next
Installation Summary
    Hit Configure
Configuration Progress
    When 100% complete, Hit Next
Installation Complete
    You can choose to save the Installation Summary here.
    Hit Finish
```

```
=====
Setup ORACLE_HOME environment
=====
```

```
Edit /etc/oratab file and add this line
    BAN8:/aux/oracle/middleware/Oracle_WT1:N
```

```
Edit /local/bin/oraenv to include environment specific variables.
For example, set the following variables for the BAN8 environment:
```

```
LD_LIBRARY_PATH
TNS_ADMIN [if different than default]
TWO_TASK
MIDDLEWARE_HOME
ORACLE_INSTANCE (a/k/a INSTANCE_HOME)
DOMAIN_HOME
PATH
```

```
export $ORACLE_BASE=/aux/oracle
export
LD_LIBRARY_PATH=$ORACLE_HOME/jdk/jre/lib/amd64/native_threads:$ORACLE_HOM
E/jdk/jre/lib/amd64/server:$ORACLE_HOME/jdk/jre/lib/amd64:$ORACLE_HOME/li
b
export TNS_ADMIN=$ORACLE_BASE/local/network/admin
export TWO_TASK=dbServer_ban8.sct.com
export MIDDLEWARE_HOME=$ORACLE_BASE/middleware
export ORACLE_INSTANCE=$ORACLE_HOME/instances/instance1
export INSTANCE_HOME=$ORACLE_INSTANCE
export DOMAIN_HOME=$MW_HOME/user_projects/domains/base_domain
export PATH=$PATH:$ORACLE_INSTANCE/bin
```

```
=====
Edit tnsnames.ora file
=====
```

```
The $ORACLE_INSTANCE/config is the default location of the tnsnames.ora
file.
```

```
Edit the tnsnames.ora and add the Banner 8 database service.
```

```

dbServer_ban8.sct.com =
  (DESCRIPTION =
    (SDU=8192)
    (ADDRESS_LIST =
      (ADDRESS =
        (PROTOCOL = TCP)
        (HOST = dbServer.sct.com)
        (PORT = 1521)
      )
    )
    (CONNECT_DATA = (SID=SEED) (SERVER=DEDICATED)
  )
)

```

```

=====
Start WebLogic Server
=====

```

To avoid being prompted for the weblogic password a boot.properties file can be created in \$DOMAIN\_HOME/servers/AdminServer/security

For example

```

boot.properties
username=weblogic
password=manager1

```

The password in the file will be encrypted once weblogic is started.

If you chose Development Mode during configuration, a boot.properties file was created for you.

To start WebLogic, a script similar to the example startWebLogic attached can be used.

To execute,

```

su - oracle
startWebLogic >>startWebLogic.log 2>&1 &

```

To stop WebLogic, a script similar to the example stopWebLogic attached can be used.

```

=====
Start NodeManager
=====

```

To start NodeManager, a script similar to the example startNodeManager attached can be used.

To execute,

```

su - oracle
startNodeManager >>startNodeManager.log 2>&1 &

```

There is no Oracle script to stop NodeManager. You can use the example killNodeManager script attached, which executes a Unix kill -9 command on the PID.

```
=====  
Start opmnctl web services  
=====
```

Provided that \$ORACLE\_INSTANCE/bin has been added to your \$PATH, this command can be used to start opmnctl:

```
su - oracle  
opmnctl startall
```

If \$PATH does not include \$ORACLE\_INSTANCE/bin:

```
su - oracle  
cd $ORACLE_INSTANCE/bin  
opmnctl startall
```

```
=====  
Scripts to Start and Stop all Processes  
=====
```

To start WebLogic and NodeManager and Opmnctl, the example start and stop scripts attached can be used.

```
=====  
SSB Configuration  
=====
```

See the "SSB Configuration" section in:  
FAQ 1-BTZNOZ Banner 8 and Oracle Fusion Middleware (OFM) Weblogic 11g  
Installation On Unix

The steps are identical.