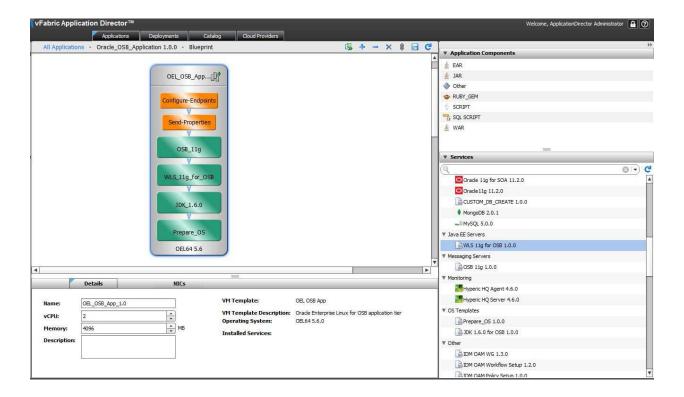
# Oracle Service Bus - Blueprint Information

# 1. OVERVIEW

The purpose of this document is to describe the Oracle Service Bus (OSB) blueprint in detail. The goal of the blueprint is to allow for provisioning and configuration of an Oracle Service Bus instance in an automated and repeatable fashion.

The following components and versions are installed as part of the OSB instance:

- (1) Oracle WebLogic Server 10.3.3
- (2) Oracle Service Bus 11.1.1.3
- (3) JDK 1.6.0



# 2. HIGH LEVEL BLUEPRINT DESIGN

Conceptually, the blueprint design consists of four tasks as described below. These tasks are listed in chronological order:

- (1) Prepare OS
- (2) Install JDK 1.6
- (3) Install WLS 11g
- (4) Install OSB 11g
- (5) Custom Scripts

# 2.1 Files

You will need access to create the following file repository that contains the necessary installers and configuration files needed. We will refer to this repository as the Dropbox Home in this document.

#### **\$DROPBOX HOME/OSB:**

build.xml Ant-based build file for installation

runner.sh Main driver file

#### \$DROPBOX\_HOME/OSB/config:

create-db-endpoint.py WLST script to create db endpoints osb-create-domain.py WLST script to create OSB domain silent.xml Weblogic silent installation file oraInst.loc Oracle install location file

osb-custom-install.rsp OSB silent installation response file

#### **\$DROPBOX HOME/OSB/installer:**

jdk-6u20-linux-x64.bin JDK 1.6 installer

ofm\_osb\_generic\_11.1.1.3.0\_disk1\_1of1.zip OSB 11g installer

wls1033\_generic.jar WLS 11g installer

# 2.2 Prepare OS Properties

The Prepare OS task sets the hostname for the machine that's provisioned. The following properties govern the execution of the blueprint:

Property	Description	Notes
HOST_NAME_PATTERN	Set this to be a hostname	%e in the pattern will be
	pattern based on the	substituted by the
	environment (for e.g., dev1).	environment name
IP_ADDRESS	Set this property to the IP	Self:NIC0_ip
	address of the machine	
DOMAIN_NAME	Set this property to be the	

	domain name	
HOST_NAME	The eventual hostname will	
	be set in this property.	
	Therefore, you can use this	
	property within other	
	modules in this blueprint	

### Properties:

Deta	ils Properties	Actions	
Name	Description		Туре
HOST_NAME_PATTERN	Pattern to use for the hostname, for e.g., ora	-%e-osb-a%c, where %e will be expanded to the environment name and %c will be expa	String
ENV_NAME			String
IP_ADDRESS	The IP_ADDRESS parameter must be set at th	e Blueprint level to the ip address of the node.	String
DOMAIN_NAME	Domain name		String
HOST_NAME			String
env_util			Content

#### Actions:

Details	Properties	Actions	
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	2
CONFIGURE	Bash Script		2
START	Bash Script		3

### Install Script:

#!/bin/bash

# Set hostname variable

 $HOST\_NAME=`echo\ \$HOST\_NAME\_PATTERN\ |\ sed\ "s/%e/\$ENV\_NAME/g"`$ 

# Change VM hostname

hostname \$HOST\_NAME

# Replace hostname in /etc/hosts

 $sed\ \hbox{-i.bak}\ "s/\$IP\_ADDRESS.*/\$IP\_ADDRESS\ \$HOST\_NAME.\$DOMAIN\_NAME\ \$HOST\_NAME/g"\ /etc/hosts$ 

 $sed \verb|-i.bak| "s/HOSTNAME=.*/HOSTNAME=\$HOST\_NAME.\$DOMAIN\_NAME/g" | /etc/sysconfig/network| | / (a.s. a.s. b. a.s. b.$ 

# set HOST\_NAME INCLUDING DOMAIN

HOST\_NAME="\$HOST\_NAME"."\$DOMAIN\_NAME"

echo "Setting hostname to \$HOST\_NAME"

# 2.3 Install JDK Properties

The Install JDK task installs JDK 1.6.0 on the machine. It's governed by the following properties:

Property	Description	Notes	
DROPBOX_HOME	Location of the dropbox file	NFS mount where installation	
	repository	binaries & deployment	
		scripts are located.	

Details	Properties	Actions	
Name:	JDK_1.6.0		
Catalog Service:	JDK 1.6.0 for OSB		
Version:	1.0.0		
Description:	OSB install needs a special JDK version (1.6.0)		
Pre-installed in a Template:			

# Properties:

	tails Properties	Actions		
Name	Description	Туре	Catalog Value	Blueprint Value
DROPBOX_HOME	Location of the dropbox	String	/mnt/vfsbdropbox	

# Actions:

Details	Properties	Actions	
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	\$DROPBOX_HOME/OSB/runner.sh install-jdk	×
CONFIGURE	Bash Script		30
START	Bash Script		×

# Install Script:

\$DROPBOX\_HOME/OSB/runner.sh install-jdk

# 2.4 Install WLS Properties

The Install WLS task installs WLS 11g on the machine. It uses the JDK that's installed in the previous step. It's governed by the following properties:

Property	Description	Notes
DROPBOX_HOME	Location of the dropbox file	NFS mount where installation
	repository	binaries & deployment
		scripts are located.
ВЕАНОМЕ	Directory in which to install	Also known as Middleware
	WLS	Home.

	-		
Details	Properties	Actions	
Name:	WLS_11g_for_OSB		
Catalog Service:	WLS 11g for OSB		
Version:	1.0.0		
Description:	Oracle WebLogic Server 10g		
Pre-installed in a Template	: 🗆		

### Properties:

De	etails Properties	Actions		
Name	Description	Туре	Catalog Value	Blueprint Value
BEAHOME	Location of BEAHOME	String	/oracle/products/osbmw	
DROPBOX_HOME	Location of the dropbox	String	/mnt/vfsbdropbox	

#### Actions:

Details	Properties	Actions	<i></i>
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	\$DROPBOX_HOME/OSB/runner.sh install-wls	×
CONFIGURE	Bash Script		×
START	Bash Script		×

# Install Script:

\$DROPBOX\_HOME/OSB/runner.sh install-wls

# 2.5 Install OSB Properties

This task installs OSB 11g on the WLS that's configured and set up in the previous step. It creates and configures a domain (called osb\_domain) on the AdminServer.

Property	Description	Notes		
DROPBOX_HOME	Location of the drop box	NFS mount where installation		
	file repository	binaries & deployment scripts		
		are located.		
ВЕАНОМЕ	Directory in which WLS	Also known as Middleware		
	is installed	Home.		
OSB_ORACLE_HOME	Oracle Home under			
	which to install OSB			
WEBLOGIC_PASSWORD	Set password for	Administrator name is weblogic		
	administrator of the			
	osb_domain			

Details	Properties	Actions
Name:	OSB_11g	
Catalog Service:	OSB 11g	
Version:	1.0.0	
Description:	Oracle Service Bus 11,1.1.3	
Pre-installed in a Template:	Til.	

### Properties:

Detai	ls Properties	Actions		
Name	Description	Туре	Catalog Value	Blueprint Value
OSB_ORACLE_HOME	Oracle Home under which OSB will be installed	String	/oracle/products/osbmw/Oracle_OSB1	
BEAHOME	Also known as middleware home	String	/oracle/products/osbmw	
DROPBOX_HOME	Location of the dropbox	String	/mnt/vfsbdropbox	
WEBLOGIC_PASSWORD	Set password for weblogic user	String	*******	

### Actions:

Details	Properties	Actions	
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	\$DROPBOX_HOME/OSB/runner.sh install-osb	20
CONFIGURE	Bash Script		×
START	Bash Script	\$DROPBOX_HOME/OSB/runner.sh start-osb	×

### Install Script:

\$DROPBOX\_HOME/OSB/runner.sh install-osb

# Start Script:

\$DROPBOX\_HOME/OSB/runner.sh start-osb