# Oracle Virtual Directory (IDM Single Node) - Blueprint Information

1. OVERVIEW

The purpose of this document is to describe the Oracle Virtual Directory blueprint (as part of the IDM Single Node blueprint) in detail. The goal of the blueprint is to allow for provisioning and configuration of a single node Oracle Virtual Directory (OVD) instance in an automated and repeatable fashion.

The following components and versions are installed as part of the OVD instance:
  (1) Weblogic Server 10.3.2
  (2) OVD of Oracle Identity Management 11g Release 1 (11.1.1.2.0)
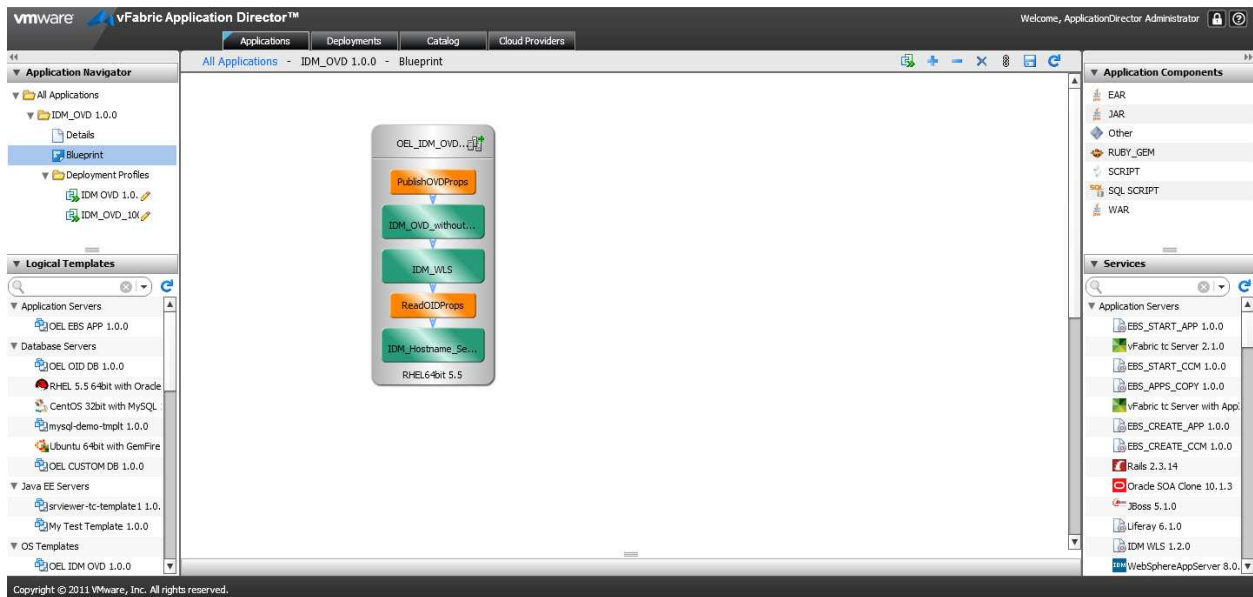
2. HIGH LEVEL BLUEPRINT DESIGN

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

(1) Setup Host Name
(2) Retrieve Oracle Internet Directory (OID) Properties
(3) Install Weblogic Server 10.3.2
(4) Install OVD of Oracle Identity Management 11g Release 1 (11.1.1.2.0)
(5) Publish OVD Properties

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 "Mount Point Location" in this document.

$MOUNTPOINTLOCATION/IDM:

wls/	Installation and configuration directory of Weblogic Server 10.3.2
wls1032_generic.jar	Installation package of Weblogic Server 10.3.2
ovd/	Installation and configuration directory of OVD
Disk1/	Installation package (Disk1) of OVD
Disk2/	Installation package (Disk2) of OVD
Disk3/	Installation package (Disk3) of OVD
Templates/	OVD installation and configuration templates
im_install_config.rsp	OVD silent installation response file Template
oraInst.loc	OVD installation location file
localStoreOUs.ldif	ldif file to create local store OUs
adapters.os_xml	Configuration file to create OVD adapters
mod_vmwperson.ldif	ldif file to customize "vmwperson" object class
perforce/Templates/	Perforce templates used for inter-blueprint communications
ovd.properties	OVD properties file

You will also need below files to configure the scripts and services within this blueprint. Please refer to the following sections for details and their corresponding script/service.

IDM_Hostname_Setup_INSTALL.txt
ReadOIDProps_INSTALL.txt
IDM_WLS_INSTALL.txt
IDM_OVD_without_WLS_INSTALL.txt
IDM_OVD_without_WLS_CONFIGURE.txt

2.2 Setup Host Name

The "Setup Host Name" task sets the hostname for the machine that's provisioned. It's defined as a blueprint service.

Properties:

Name	Description	Type
env_util	Java utitlity to register ho…	Content
HOST_NAME	Generated host name	String
DOMAIN_NAME		String
IP_ADDRESS	The IP_ADDRESS parame…	String
ENV_NAME	Environment name specifi…	String
HOST_NAME_PATTERN	Pattern to use for the ho…	String

Actions:

Details	Properties	Actions

Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	✖
CONFIGURE	Bash Script		✖
START	Bash Script		✖

Install Script:

Please refer to file **IDM_Hostname_Setup_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.3 Retrieve Oracle Internet Directory (OID) Properties

The "Retrieve Oracle Internet Directory (OID) Properties" task retrieves the OID information that OVD needs to connect to from Perforce. It's defined as a blueprint script.

Properties:

Name	Description	Type	Blueprint Value	Required	Secured	Overridable at Deployment
IDM_OID_ADMIN_PASS	OID admin user password	String		☐	☐	☑
IDM_OID_ADMIN_USER	OID admin user	String		☐	☐	☑
IDM_OID_PORT	OID port	String		☐	☐	☑
IDM_OID_HOST	OID host	String		☐	☐	☑
ENV_NAME	Deployment environment name	String	self:IDM_Hostname_Setup:ENV_NAME	☐	☐	☑
env_util	Java utility to retrieve OID information from Perforce	Content	http://${darwin.server.ip}/artifacts/common/envutil.zip	☑	☐	☑

Actions:

Details	Properties	Actions

Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	✖
CONFIGURE	Bash Script		✖
START	Bash Script		✖

Install Script:
Please refer to file **ReadOIDProps_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.4 Install Weblogic Server 10.3.2

The "Install Weblogic Server 10.3.2" task installs a Weblogic Server as the administration console of OVD. It's defined as a blueprint service.

Properties:

Name	Description	Type
JAVA_HOME_64BIT	Java Home	String
WLSPASSWORD	Weblogic Server admin user password	String
WLSUSER	Weblogic Server admin user	String
SSLLISTENPORT	SSL port	String
SSLENABLE	To enable SSL?	String
LISTENPORT	Weblogic Server port	String
USE64BITJDK	Use 64bit JDK?	String
MW_BASE	Oracle Middleware Home	String
NFSPATH	Network shared drive that has installation and configuration files	String
global_conf	Network configuration utility	Content

Actions:

Details	Properties	Actions

Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	✖
CONFIGURE	Bash Script		✖
START	Bash Script		✖

Install Script:

Please refer to file **IDM_WLS_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.5 Install OVD of Oracle Identity Management 11g Release 1 (11.1.1.2.0)

The "Install OVD of Oracle Identity Management 11g Release 1 (11.1.1.2.0)" task installs an OVD server instance. It's defined as a blueprint service.

Properties:

Name	Description	Type
OVDADMINPASSWORD	OVD admin user password	String
OVDADMINUSER	OVD admin user	String
ORACLE_INSTANCE_NAME	OVD instance name	String
DOMAIN_NAME	OVD domain name	String
MW_BASE	Oracle Middleware base home	String
global_conf	Network configuration utility	Content
OIDHOSTNAME	OID host name	String
OIDADMINPASSWORD	OID admin user password	String
OIDADMINUSER	OID admin user	String

Actions:

Details	Properties	Actions

Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	✖
CONFIGURE	Bash Script	#!/bin/bash	✖
START	Bash Script		✖

Install Script:

Please refer to file **IDM_OVD_without_WLS_INSTALL.txt** to copy the script as the INSTALL Bash Script.

Please refer to file **IDM_OVD_without_WLS_CONFIGURE.txt** to copy the script as the CONFIGURE Bash Script.

2.6 Publish OVD Properties

The "Publish OVD Properties" task publishes the OVD information to Perforce. It's defined as a blueprint script.

Properties:

Name	Description	Type	Blueprint Value	Required	Secured	Overridable at Deployment
IDM_OVD_ADMIN_PASS	OVD admin user password	String	self:IDM_OVD_without_WLS:OVDADMINPASSWORD	☑	☐	☑
IDM_OVD_ADMIN_USER	OVD admin user	String	self:IDM_OVD_without_WLS:OVDADMINUSER	☑	☐	☑
IDM_OVD_PORT	OVD port	String	6501	☑	☐	☑
IDM_OVD_HOST	OVD host	String	self:IDM_Hostname_Setup:HOST_NAME	☑	☐	☑
env_util	Java utiltiy to publish OVD properties to Perforce	Content	http://${darwin.server.ip}/artifacts/common/envutil.zip	☑	☐	☑
ENV_NAME	Deployment environment name	String	self:IDM_Hostname_Setup:ENV_NAME	☑	☐	☑

Actions:

Details	Properties	Actions

Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	✖
CONFIGURE	Bash Script		✖
START	Bash Script		✖

Install Script:

Please refer to file **PublishOVDProps_INSTALL.txt** to copy the script as the INSTALL Bash Script.