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

1. OVERVIEW

The purpose of this document is to describe the Oracle Internet 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 Internet Directory (OID) instance in an automated and repeatable fashion.

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

(1) Oracle RDBMS 10.2.0 (Database Node)
(2) Oracle Application Server Repository Creation Assistant (Oracle AS RepCA) 10.1.4.0.1 (Application Node)
(3) OID of Oracle Application Server Infrastructure 10g 10.1.4.3.0 (Application Node)
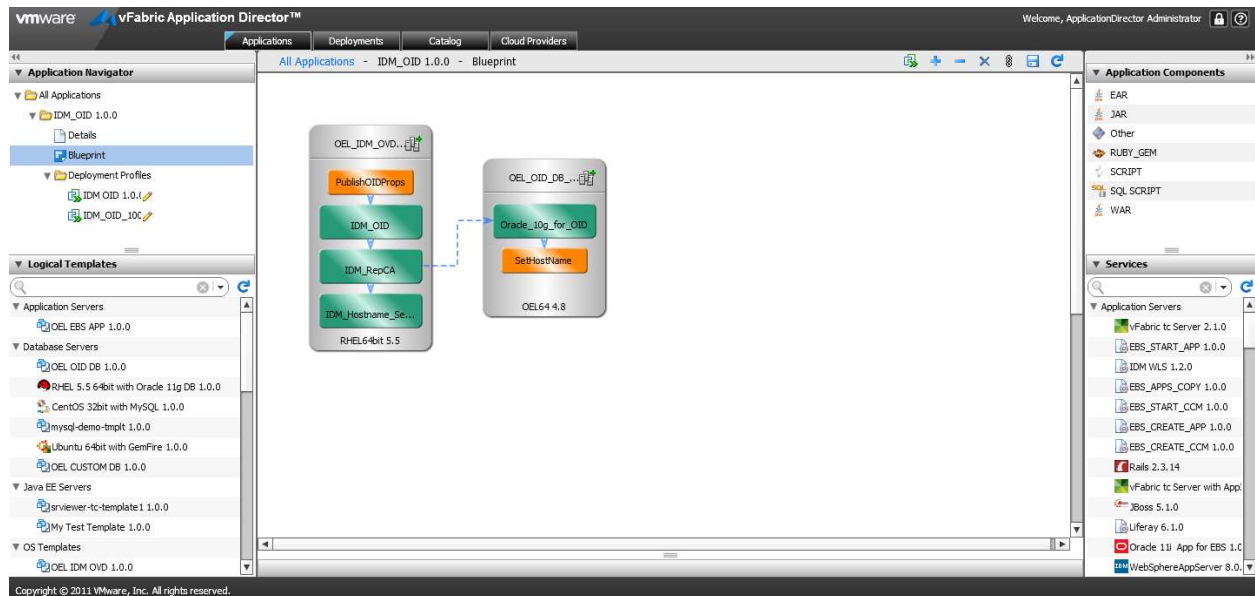
2. HIGH LEVEL BLUEPRINT DESIGN

Conceptually, the blueprint design consists of the tasks described below. These tasks are listed in chronological order:
   (1) Setup Host Name (Database Node)
   (2) Setup Host Name (Application Node)
   (3) Install Oracle RDBMS 10.2.0 (Database Node)
   (4) Install Oracle Application Server Repository Creation Assistant 10.1.4.0.1 (Application Node)
   (5) Install OID of Oracle Application Server Infrastructure 10g 10.1.4.3.0 (Application Node)
   (6) Publish OID Properties (Application Node)

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:

repca/		Installation and configuration directory of Oracle AS RepCA 10.1.4.0.1
	Disk1/	Installation package (Disk1) of Oracle AS RepCA
	Disk2/	Installation package (Disk2) of Oracle AS RepCA
	1014repca/	Installation patch of Oracle AS RepCA
	Templates/	Oracle AS RepCA installation and configuration templates
	repca.rsp	Oracle AS RepCA silent installation response file Template
	repca_install_load.rsp	Oracle AS RepCA silent initial load response file Template
	oraInst.loc	Oracle AS RepCA installation location file
	rootsh_rsp.txt	Response file when running "root.sh"
OID/		Installation and configuration directory of OID
	oid_101401/	Installation package of OID 10.1.4.0.1
	oid_101430/	Installation package of OID 10.1.4.3.0
	1014im/	Installation patch of OID 10.1.4
	Templates/	OID installation and configuration templates
	add_oam_objects.ldif	ldif file to add Oracle Access Management (OAM) objects
	change_orcladmin_password.ldif	ldif file to change user "orcladmin" password
	mod_nonsslport.ldif	ldif file to modify OID non-SSL port to 389

mod_sslport.ldif	ldif file to modify OID SSL port to 636
mod_vmwperson.ldif	ldif file to modify "vmwperson" object class
oid_install.rsp	OID silent installtion response file Template
oid_patch_install.rsp	OID patch silent installation response file Template
rootsh_rsp.txt	Response file when running "root.sh"

perforce/Templates/	Perforce templates used for inter-blueprint communications
oid.properties	OID 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
SetHostName_INSTALL.txt
Oracle_10g_for_OID_INSTALL.txt
Oracle_10g_for_OID_CONFIGURE.txt
IDM_RepCA_INSTALL.txt
IDM_OID_INSTALL.txt
IDM_OID_CONFIGURE.txt
PublishOIDProps_INSTALL.txt

2.2 Setup Host Name (Database Node)

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

Properties:

Name	Description	Type
DOMAIN_NAME		String
ENV_NAME		String
HOST_NAME		String
env_util		Content
IP_ADDRESS		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 **SetHostName.txt** to copy the script as the INSTALL Bash Script.

2.3 Install Oracle RDBMS 10.2.0 (Database Node)

The "Install Oracle RDBMS 10.2.0" task installs a server instance of Oracle RDBMS 10.2.0. It's defined as a blueprint service.

Properties:

Name	Description	Type
ORACLE_HOME	Oracle Home	String
global_conf	Network configuration utility	Content
SELECTED_LANGUAGES	Select one of the followin...	String
GDBNAME	DATABASE NAME	String
LISTENER_PORT	PORT TO BIND TO	String
LISTENER_PROTOCOL	LISTENER PROTOCOL TO...	String
EMAIL_ADDRESS	ADMINISTRATOR EMAIL ...	String
INSTALL_EDITION	INSTALLATION EDITION	String
ORACLE_BASE	BASE DIRECTORY TO INS...	String
ORACLE_HOSTNAME	HOST NAME TO BIND TO	String
NFSPATH	NFS mount path to copy ...	String
SYSPASSWORD	PASSWORD FOR THE SYS...	String
SYSTEMPASSWORD	PASSWORD FOR THE SYS...	String
SID	database Id	String
WKSSYSPASS	Password for WKS SYS U...	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 **Oracle_10g_for_OID_INSTALL.txt** to copy the script as the INSTALL Bash Script.

Please refer to file **Oracle_10g_for_OID_CONFIGURE.txt** to copy the script as the CONFIGURE Bash Script.

2.4 Setup Host Name (Application Node)

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

Properties:

Service Definition

Edit Service IDM Hostname Setup 1.0.0

| | Details | Properties | Actions |

Name	Description	Type	Value	Required	Secured	Overridable in Blueprint
env_util	Java utitlity to register host information in DNS	Content	http://${darwin.server.ip}/artifacts/common/envutil.zip	☑	☐	☑
HOST_NAME	Generated host name	String		☐	☐	☑
DOMAIN_NAME		String	vf.vmware.com	☑	☐	☑
IP_ADDRESS	The IP_ADDRESS parameter must be set at the Blueprint level to the ip address of the node.	String		☑	☐	☑
ENV_NAME	Environment name specified during deployment	String		☐	☐	☑
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 expanded to the cluster number.	String		☑	☐	☑

OK   Cancel

Blueprint Definition

Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Overridable at Deployment
env_util	Java utitlity to regi...	Content	http://${darwin.server.ip}/artifacts/common/envutil.zip		☑	☐	☑
HOST_NAME	Generated host na...	String			☐	☐	☑
DOMAIN_NAME		String	vf.vmware.com		☑	☐	☑
IP_ADDRESS	The IP_ADDRESS ...	String		self:NIC0_ip	☑	☐	☑
ENV_NAME	Environment name...	String			☐	☐	☑
HOST_NAME_PATTERN	Pattern to use for ...	String		ora-%e-fmidm-a7	☑	☐	☑

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.

2.5 Install Oracle Application Server Repository Creation Assistant 10.1.4.0.1 (Application Node)

The "Install Oracle Application Server Repository Creation Assistant 10.1.4.0.1 (Application Node)" task installs Oracle Application Server Repository Creation Assistant to load data into OID Metadata Repository. It's defined as a blueprint service.

Properties:

Name	Description	Type
JAVA_HOME_64BIT	Java Home	String
USE64BITJDK	Use 64bit JDK?	String
MW_BASE	Oracle Middleware Base	String
NFSPATH	Network shared drive tha...	String
global_conf	Network configuration utility	Content
DATABASE_SID	OID Metadata database ...	String
DATABASE_PASSWORD	OID Metadata database ...	String
DATABASE_SERVICE_NAME	OID Metadata database ...	String
DATABASE_HOST	OID Metadata database ...	String
DATABASE_ORACLE_HOME	OID Metadata database ...	String
DATABASE_PORT	OID Metadata database ...	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_RepCA_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.6 Install OID of Oracle Application Server Infrastructure 10g 10.1.4.3.0 (Application Node)

The "Install OID of Oracle Application Server Infrastructure 10g 10.1.4.3.0 (Application Node)" task installs an OID server instance. It's defined as a blueprint service.

Properties:

Name	Description	Type
OIDINSTANCENAME	OID instance name	String
OIDADMINPASSWORD	OID admin user password	String
OIDADMINUSER	OID admin user	String
DBSERVICENAME	OID Metadata database ...	String
DBSYSPASSWORD	OID Metadata database ...	String
DBHOST	OID Metadata database ...	String
JAVA_HOME_64BIT	Java home	String
USE64BITJDK	Use 64bit JDK?	String
ORACLE_HOME_NAME	Name of OID Oracle home	String
ORACLE_HOME	OID Oracle home	String
NFSPATH	Network shared drive tha...	String
global_conf	Network configuration utility	Content
DBPORT	OID Metadata database ...	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_OID_INSTALL.txt** to copy the script as the INSTALL Bash Script.

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

2.7 Publish OID Properties

The "Publish OID Properties" task publishes the OID information to 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	*self:IDM_OID:OIDADMINPASSWORD*	✓	☐	✓
IDM_OID_ADMIN_USER	OID admin user	String	*self:IDM_OID:OIDADMINUSER*	✓	☐	✓
IDM_OID_PORT	OID non SSL port	String	389	✓	☐	✓
IDM_OID_HOST	OID host name	String	*self:IDM_Hostname_Setup:HOST_NAME*	✓	☐	✓
env_util	Java utiltiy to publish OID properties to Perforce	Content	http://${darwin.server.ip}/artifacts/common/envutil.zip	✓	☐	✓
ENV_NAME	Deployment environment name	String	*OEL_OID_DB_1.0:SetHostName:ENV_NAME*	☐	☐	✓

Actions:

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

Install Script:

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