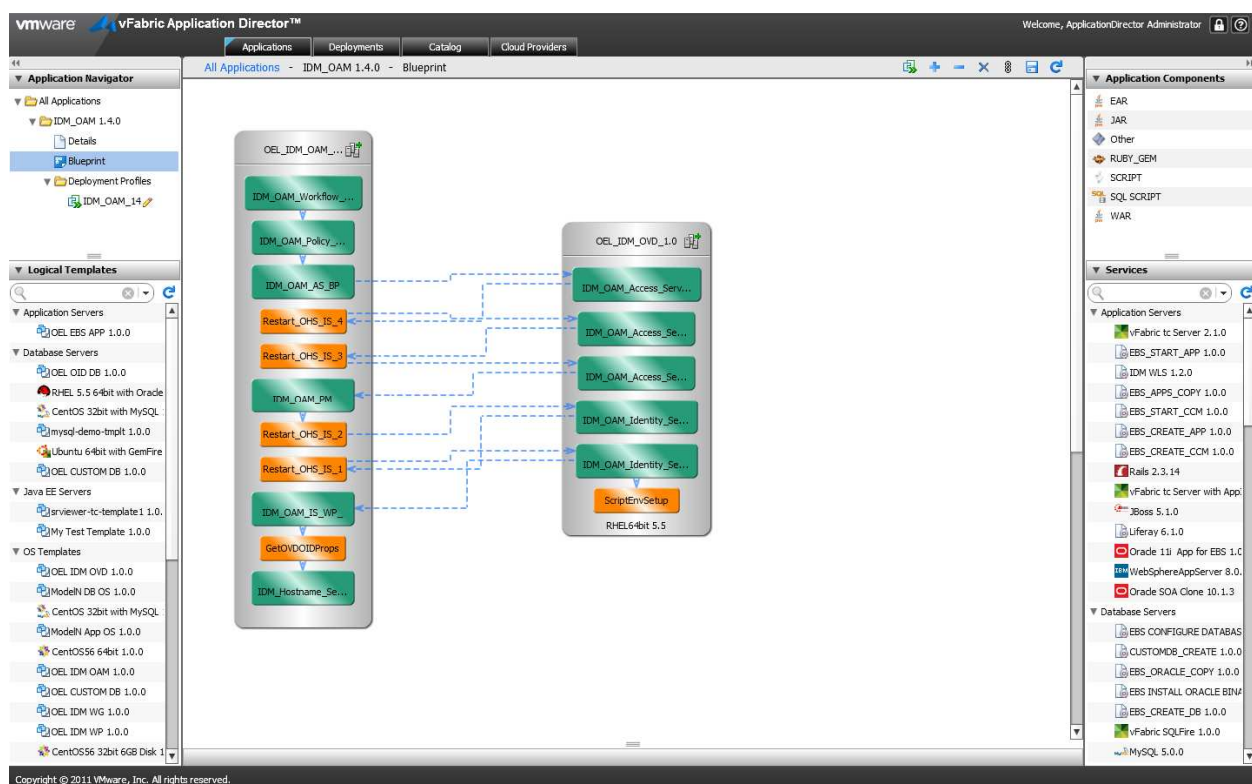


1. OVERVIEW

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

- (1) OAM Identity Server (OAM IS) Release 10.1.4.2.0.11 BP 11
- (2) Oracle HTTP Server (OHS) 10.1.3.0.0
- (3) OAM WebPass (OAM WP) Release 10.1.4.2.0.09 BP 09
- (4) OAM Policy Manager (OAM PM) Release 10.1.4.2.0.01 BP 01
- (5) OAM Access Server (OAM AS) Release 10.1.4.2.0.11 BP 11



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 (OAM Server Node)
- (2) Retrieve OVD and OID Properties (OAM Server Node)
- (3) Install OAM IS, OHS & OAM WP (OAM Server Node)
- (4) Setup Environment to run Selenium Scripts (OAM Configuration Node)
- (5) Setup OAM Identity System Part One (OAM Configuration Node)
- (6) Restart OHS and OAM IS (OAM Server Node)
- (7) Setup OAM Identity System Part Two (OAM Configuration Node)
- (8) Restart OHS and OAM IS (OAM Server Node)
- (9) Install OAM PM (OAM Server Node)
- (10) Setup OAM Access System Part One (OAM Configuration Node)
- (11) Restart OHS and OAM IS (OAM Server Node)
- (12) Setup OAM Access System Part Two (OAM Configuration Node)
- (13) Restart OHS and OAM IS (OAM Server Node)
- (14) Create OAM Access Server Definition (OAM Configuration Node)
- (15) Install OAM AS; Upgrade and apply patches to OAM IS, WP, PM and AS (OAM Server Node)
- (16) Import OAM Customized Policy (OAM Server Node)
- (17) Setup OAM Customized Workflow (OAM Server 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:

ohs/	Installation and configuration directory of OHS 10.1.3.0.0
soa_linux_x86_101310_disk1.cpio	Installation package of OHS 10.1.3.0.0 (Note: this package needs to be extracted in the same directory)
Templates/	OHS installation and configuration templates
ohs_install.rsp	OHS silent installation response file Template
rootsh_rsp.txt	Response file when running "root.sh"
staticports.ini	OHS port configuration file
oam/	Installation and configuration directory of OAM
oam_101401/	Installation packages of OAM 10.1.4.0.1
oam_101420_patchset/	Installation upgrade patches of OAM 10.1.4.2.0
oam_101420_BP /	Installation bundle patches of OAM 10.1.4.2.0
gcc_lib/	GCC libraries required by OAM installation

selenium/	Selenium scripts for OAM AH configuration
classes/	Selenium java classes to configure OAM AH
lib/	Selenium java libraries to configure OAM AH
setup.properties	Properties to setup OAM AH
Templates/	OAM AH installation and configuration templates
is_install_options.txt	OAM IS silent installation response file Template
wp_install_options.txt	OAM WP silent installation response file Template
pm_install_options.txt	OAM PM silent installation response file Template
as_install_options.txt	OAM AS silent installation response file Template
simpleCA.tar	OAM Certificate package
opmn_fix.xml	OHS environment fix XML
oraInst.loc	Oracle installation location file
policy/	Customized OAM policy files
workflows/	Customized OAM workflow configuration files
oid/	Installation and configuration directory of OID
Templates/	OID installation and configuration templates
add_oam_service_accounts.ldif	Idif file to add OAM service accounts
change_service_accounts_password.ldif	Idif file to change OAM service accounts' passwords
mod_OblixAnonymous_orcladmin.ldif	Idif file to modify OAM user "OblixAnonymous" and "orcladmin"
OID_oblix_schema_delete.ldif	Idif file to clean up OID oblix schema before installing OAM Policy Manager
OID_oblix_schema_index_delete.ldif	Idif file to clean up OID oblix schema index before installing OAM Policy Manager
update_filter.ldif	Idif file to update OAM search filter
perforce/Templates/	Perforce templates used for inter-blueprint communications
oam.properties	OAM 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
 GetOVDROIDProps_INSTALL.txt
 IDM_OAM_Access_Server_Definition_INSTALL.txt
 IDM_OAM_Access_Setup_1_INSTALL.txt
 IDM_OAM_Access_Setup_2_INSTALL.txt
 IDM_OAM_AS_BP_CONFIGURE.txt
 IDM_OAM_AS_BP_INSTALL.txt
 IDM_OAM_Identity_Setup_1_INSTALL.txt

IDM_OAM_Identity_Setup_2_INSTALL.txt
 IDM_OAM_IS_WP_CONFIGURE.txt
 IDM_OAM_IS_WP_INSTALL.txt
 IDM_OAM_PM_INSTALL.txt
 IDM_OAM_Policy_Setup_INSTALL.txt
 IDM_OAM_Workflow_Setup_INSTALL.txt
 Restart_OHS_IS_INSTALL.txt
 ScriptEnvSetup_INSTALL.txt

2.2 Setup Host Name (OAM Server Node)

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

Properties:

Name	Description	Type
env_util	Java utility to register host information in DNS	Content
HOST_NAME	Generated host name	String
DOMAIN_NAME		String
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...	String

Actions:

<div> <div>Details</div> <div>Properties</div> <div>Actions</div> </div>			
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 OVD and OID Properties (OAM Server Node)

The “Retrieve OVD and OID Properties (OAM Server Node)” task retrieves the OVD and OID information that OAM AH connects to from Perforce. It’s defined as a blueprint script.

Properties:

Name	Description	Type	Blueprint Value	Required	Secured	Overridable at Deployment
ENV_NAME		String	<i>self:IDM_Hostname_Setup:ENV_NAME</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OVD_ADMIN_PASS		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OVD_ADMIN_USER		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OVD_PORT		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OVD_HOST		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OID_ADMIN_PASS		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OID_ADMIN_USER		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OID_PORT		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IDM_OID_HOST		String		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
env_util		Content	http://\${darwin.server.ip}/artifacts/common/envutil.zip	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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 **GetOVDROIDProps_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.4 Install OAM IS, OHS & OAM WP (OAM Server Node)

The “Install OAM IS, OHS & OAM WP (OAM Server Node)” task installs an OAM IS server instance, an OHS instance along with an OAM WP server instance. It’s defined as a blueprint service.

Properties:

Name	Description	Type
global_conf		Content
OVDADMINPASSWORD		String
OVDADMINUSER		String
OVDPORT		String
OVDHOSTNAME		String
OIDADMINPASSWORD		String
OIDADMINUSER		String
OIDPORT		String
OIDHOSTNAME		String
JAVA_HOME		String
ORACLE_HOME_BASE		String
NFSPATH		String
OHSPORT		String
ENVIRONMENTNAME		String
PASSPHRASE		String
SERVERNAME		String
HOSTNAME		String

Actions:

<div>DetailsPropertiesActions</div>			
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_OAM_IS_WP_INSTALL.txt** to copy the script as the INSTALL Bash Script.

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

2.5 Setup Environment to run Selenium Scripts (OAM Configuration Node)

The "Setup Environment to run Selenium Scripts (OAM Configuration Node)" task sets up OS environment in order to run Selenium scripts for OAM configuration. It's defined as a blueprint script.

Properties:

Name	Description	Type
NFSPATH		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 **ScriptEnvSetup_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.6 Setup OAM Identity System Part One (OAM Configuration Node)

The "Setup OAM Identity System Part One (OAM Configuration Node)" task is the part one of OAM Identity System configuration. It's defined as a blueprint service.

Properties:

ACCESS_SNMP_PORT		String
ACCESSAUDIT_LOG		String
ACCESS_PORT		String
OAM_HOSTNAME		String
OID_PWD		String
OVD_PWD		String
OID_PORT		String
OID_HOST		String
OVD_PORT		String
OVD_HOST		String
OAM_ADMIN_IP		String
global_conf		Content
OAM_ADMIN_PORT		String
OAM_ADMIN_HOST		String

Actions:

<div>Details Properties Actions</div>			
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	✖
CONFIGURE	Bash Script		✖
START	Bash Script		✖

Install Script:

Please refer to file **IDM_OAM_Identity_Setup_1_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.7 Restart OHS and OAM IS (OAM Server Node)

The "Restart OHS and OAM IS (OAM Server Node)" task restarts OHS and OAM IS on OAM AH. It's defined as a blueprint script.

Properties:

No property is required.

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 **Restart_OHS_IS_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.8 Setup OAM Identity System Part Two (OAM Configuration Node)

The "Setup OAM Identity System Part Two (OAM Configuration Node)" task is the part two of OAM Identity System configuration. It's defined as a blueprint service.

Properties:

Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Overridable at Deployment
global_conf		Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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_OAM_Identity_Setup_2_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.9 Restart OHS and OAM IS (OAM Server Node)

Please refer to “2.7 Restart OHS and OAM IS (OAM Server Node)”.

2.10 Install OAM PM (OAM Server Node)

The “Install OAM PM (OAM Server Node)” task installs an OAM PM server instance. It’s defined as a blueprint service.

Properties:

Name	Description	Type
PASSPHRASE		String
OIDADMINPASSWORD		String
OIDADMINUSER		String
OIDPORT		String
OIDHOSTNAME		String
JAVA_HOME		String
ORACLE_HOME_BASE		String
global_conf		Content

Actions:

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

Install Script:

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

2.11 Setup OAM Access System Part One (OAM Configuration Node)

The “Setup OAM Access System Part One (OAM Configuration Node)” task is the part one of OAM Access System configuration. It’s defined as a blueprint service.

Properties:

Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Overridable at Deployment
global_conf		Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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_OAM_Access_Setup_1_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.12 Restart OHS and OAM IS (OAM Server Node)

Please refer to “2.7 Restart OHS and OAM IS (OAM Server Node)”.

2.13 Setup OAM Access System Part Two (OAM Configuration Node)

The “Setup OAM Access System Part Two (OAM Configuration Node)” task is the part two of OAM Access System configuration. It’s defined as a blueprint service.

Properties:

Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Overridable at Deployment
global_conf		Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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_OAM_Access_Setup_2_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.14 Restart OHS and OAM IS (OAM Server Node)

Please refer to "2.7 Restart OHS and OAM IS (OAM Server Node)".

2.15 Create OAM Access Server Definition (OAM Configuration Node)

The "Create OAM Access Server Definition (OAM Configuration Node)" task is to create an OAM Access Server definition. It's defined as a blueprint service.

Properties:

Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Overridable at Deployment
global_conf		Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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_OAM_Access_Server_Definition_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.16 Install OAM AS; Upgrade and apply patches to OAM IS, WP, PM and AS (OAM Server Node)

The “install OAM AS; Upgrade and apply patches to OAM IS, WP, PM and AS (OAM Server Node)” task installs an OAM AS server instance, upgrades and applies patches to the existing OAM IS, WP, PM and AS server instances. It’s defined as a blueprint service.

Properties:

Name	Description	Type
IDM_OAM_WG_PASS		String
IDM_OAM_PORT		String
IDM_OAM_HOSTIP		String
IDM_OVD_PORT		String
IDM_OVD_HOST		String
env_util		Content
ENV_NAME		String
PASSPHRASE		String
OIDADMINPASSWORD		String
OIDADMINUSER		String
OIDPORT		String
OIDHOSTNAME		String
JAVA_HOME		String
ORACLE_HOME_BASE		String
global_conf		Content
SERVACCTPASSWORD		String
ACCESSSERVERID		String

Actions:

<div>DetailsPropertiesActions</div>			
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_OAM_AS_BP_INSTALL.txt** to copy the script as the INSTALL Bash Script.

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

2.17 Import OAM Customized Policy (OAM Server Node)

The “Import OAM Customized Policy (OAM Server Node)” task is to import OAM customized policy. It’s defined as a blueprint service.

Properties:

Name	Description	Type
DOMAIN		String
ENV		String
OAM_BASE_DIR		String
OID_PWD		String
OID_PORT		String
OID_HOST		String
global_conf		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_OAM_Policy_Setup_INSTALL.txt** to copy the script as the INSTALL Bash Script.

2.18 Setup OAM Customized Workflow (OAM Server Node)

The “Setup OAM Customized Workflow (OAM Server Node)” task is to set up OAM customized workflow. It’s defined as a blueprint service.

Properties:

Name	Description	Type
global_conf		Content
OAM_BASE_DIR	OAM Base Install Directory	String
OID_PWD	OID admin user password	String
OID_PORT	OID Port (any node)	String
OID_HOST	OID Host FQDN (any node)	String
AUTO_LOGIN_URI		String
ASDK1_PWD		String
ACCESS1_ID		String
AAA1_PORT		String
AAA1_HOST		String
PASSPHRASE		String
ASDK1_ID		String
DOMAIN		String
ENV		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_OAM_Workflow_Setup_INSTALL.txt** to copy the script as the INSTALL Bash Script.