# Oracle e-Business Suite (EBS) - Blueprint Information

1. OVERVIEW

The purpose of this document is to describe the Oracle EBS Suite blueprint in detail. The goal of the blueprint is to allow for provisioning and configuration of an EBS instance in an automated and repeatable fashion.

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

(1) Oracle Database 10gR2 (10.2.0.5.0) on Database Tier
(2) Oracle EBS 11i (11.5.10.2) on Application tiers (one Concurrent Manager node and one Web/Forms server node - uses Shared Application tier feature)
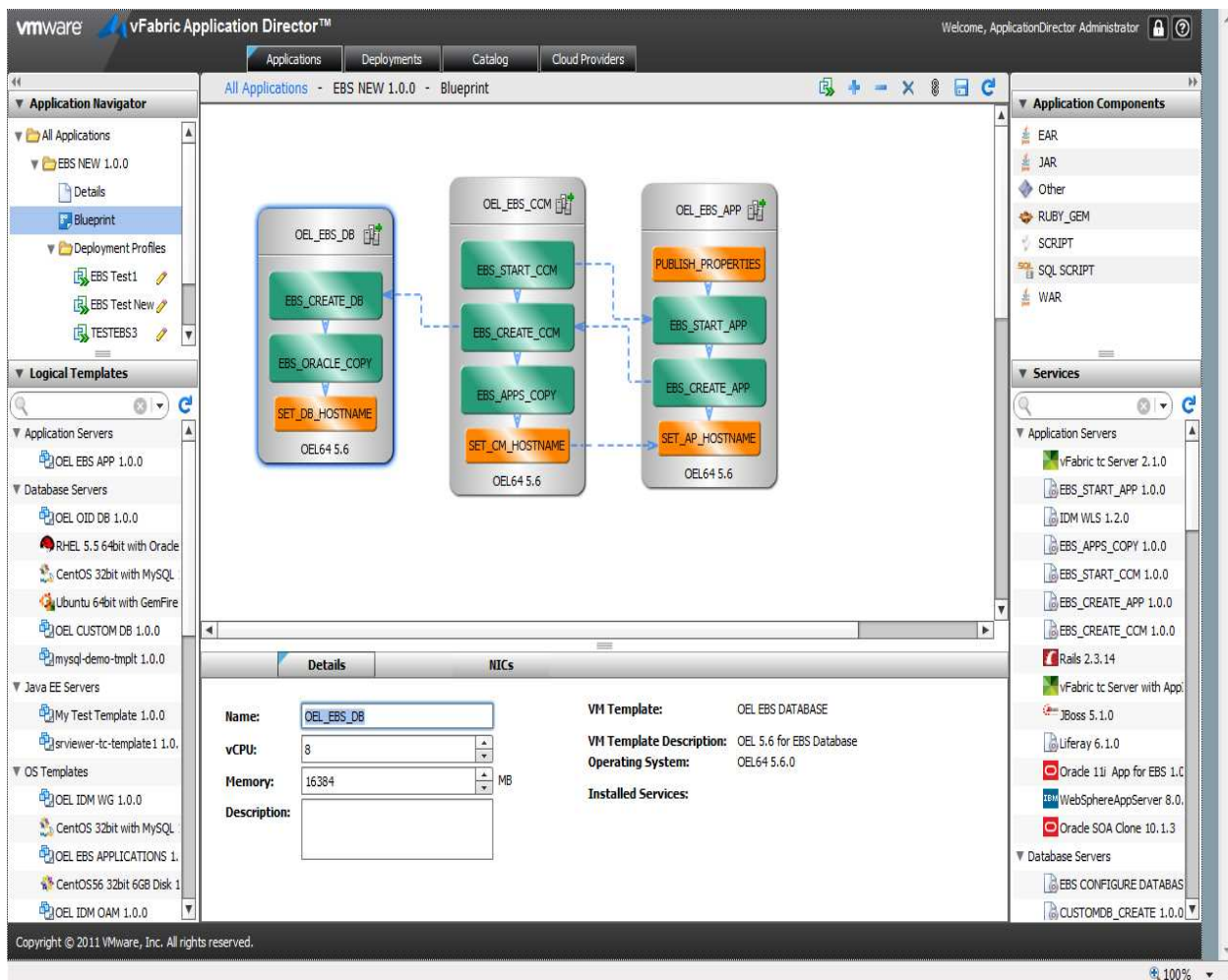
2. HIGH LEVEL BLUEPRINT DESIGN

Conceptually, the blueprint design consists of the tasks described below. These tasks are listed in chronological order:
(1) Prepare OS (Database node & Application node)
(2) Copy Oracle Database Binaries (Database node)
(3) Restore Oracle Database Backup (Database node)
(4) Copy Oracle Application Binaries (Application node)
(5) Create Database (Database node)
(6) Configure Applications (Concurrent Manager & Web/Forms node)

2.1 Files

Access to create the following file repository that contains the necessary scripts is needed. This repository will be referred as the Dropbox Home in this document.

$DROPBOX_HOME/EBS_SCRIPTS:

- Create_DB.sh & DB_Config.sh   To Create Database
- Create_CM.sh & APPS_Config_CM.sh   To Configure Concurrent Manager node
- Create_AP.sh & APPS_Config_AP.sh   To Configure Web/Forms server node
- AutoConfig.sh   To run Autoconfig
- txksohm.sh   To configure Shared Application Tier

2.2 Prepare OS Properties

The Prepare OS task sets the hostname for the machine that's provisioned and Register the IP Address & Hostname in DNS. The following properties govern the execution of the blueprint:

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

Name	Description	Type	Blueprint Value	Required	Secured	Overridable at Deployment		
DB_HOSTNAME	DB Hostname	String	ora-new-ebs-d1	☑	☐	☑	✎	✖
env_util	Parameter to get the required util...	Content	http://${darwin.server.ip}/artifacts/common/envutil.zip	☑	☐	☑	✎	✖
DB_IPADDRESS	DB IP Address	String	self:NIC0_ip	☑	☐	☑	✎	✖
global_conf	To import global parameters in ap...	Content	https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf	☑	☐	☑	✎	✖

Actions:

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

Install Script:

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

2.3 Copy Oracle Database Software and Restore Database Backup

This is to Copy Oracle Database Binaries and Data files. The following properties are required.

Property	Description	Notes
SID	EBS Database Name (SID)	

Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Overridable at Deployment	
SID	EBS Database Na...	String	NEWEBS	NEWEBS	☑	☐	☑	✎
global_conf	To import global pa...	Content	https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		☑	☐	☑	✎

Actions:

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

Install Script:

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

2.4 Create Database

This is to Create Oracle Database and change important Database users passwords. The following properties are required.

Property	Description	Notes
SID	EBS Database Name (SID)	
PORT_POOL	EBS Port Pool	This is the port pool number which is used for DB Listener, Web Server, Forms Server...
NEW_APPS_PASS	New APPS Password	The APPS password will be reset to this value after cloning
SYS_PASS	SYS Password	Password will be changed to this value after provisioning
SYSADMIN_PASS	SYSADMIN Password	Password will be changed to this value after provisioning
CUR_APPS_PASS	Current Apps Password	This is the existing APPS password
DB_HOSTNAME	EBS Database Server Hostname	
DBSNMP_PASS	DBSNMP Password	Password will be changed to this value after provisioning
XXVM_PASS	XXVM Password	Password will be changed to this value after provisioning
APPSRDONLY_PASS	APPSRDONLY Password	Password will be changed to this value after provisioning
VERTEX_PASS	VERTEX Password	Password will be changed to this value after provisioning
XXVMPORTAL_PASS	XXVMPORTAL Password	Password will be changed to this value after provisioning
XXVM_MYLEARN_PASS	XXVM_MYLEARN Password	Password will be changed to this value after provisioning
EBS_INTGR_PASS	EBS_INTGR Password	Password will be changed to this value after provisioning
PORTAL_READONLY_PASS	PORTAL_READONLY Password	Password will be changed to this value after provisioning

XXVM_HR_BPC_USER_PASS	XXVM_HR_BPC_USER Password	Password will be changed to this value after provisioning
CSSHT_PASS	CSSHT Password	Password will be changed to this value after provisioning
FINBI_LOAD_USER_PASS	FINBI_LOAD_USER Password	Password will be changed to this value after provisioning
HRREADONLY_PASS	HRREADONLY Password	Password will be changed to this value after provisioning
global_conf	To import global parameters in app director	

Name	Description	Type	Catalog Value	Blueprint Value	Required
VERTEX_PASS	VERTEX Password	String	test1234		☑
APPSRDONLY_PASS	APPSRDONLY Password	String	test1234		☑
XXVM_PASS	XXVM Password	String	test1234		☑
DBSNMP_PASS	DBSNMP Password	String	test1234		☑
DB_HOSTNAME	EBS Database Hostname	String	ora-new-ebs-d1	self:SET_DB_HOSTNAME:DB_HOSTNAME	☑
CUR_APPS_PASS	Current Apps Password	String	apps4321		☑
SYSADMIN_PASS	SYSADMIN Password	String	admin1234		☑
SYS_PASS	SYS/SYSTEM Password	String	manager1234		☑
NEW_APPS_PASS	New APPS Password	String	apps1234		☑
PORT_POOL	EBS Port Pool	String	0		☑
SID	EBS Database Name (SID)	String	NEWEBS	self:EBS_ORACLE_COPY:SID	☑
HRREADONLY_PASS	HRREADONLY Password	String	test1234		☑
FINBI_LOAD_USER_PASS	FINBI_LOAD_USER Password	String	test1234		☑
CSSHT_PASS	CSSHT Password	String	test1234		☑
XXVM_HR_BPC_USER_PASS	XXVM_HR_BPC_USER Password	String	test1234		☑
PORTAL_READONLY_PASS	PORTAL_READONLY Password	String	test1234		☑
EBS_INTGR_PASS	EBS_INTGR Password	String	test1234		☑
XXVM_MYLEARN_PASS	XXVM_MYLEARN Password	String	test1234		☑
XXVMPORTAL_PASS	XXVMPORTAL Password	String	test1234		☑
global_conf	To import global parameters in app director	Content	https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		☑

Actions:

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

Configure Script:

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

Additional scripts required for database node can be found in repo under folder "EBS_SCRIPTS\db\"

1) Create_DB.sh
2) DB_Config.sh

2.5 Copy Oracle EBS Application Binaries

This is to copy Oracle EBS Application Binaries onto shared NFS drive to make use of Shared Application Tier. The following properties are required.

Property	Description	Notes
SID	EBS Database Name (SID)	
global_conf	To import global parameters in app director	

	Details	Properties		Actions		
Name	**Description**		**Type**	**Catalog Value**	**Blueprint Value**	**Required**
SID	EBS Database Name (SID)		String	NEWEBS	OEL_EBS_DB:EBS_ORACLE_COPY:SID	☑
global_conf	To import global parameters in app director		Content	https://${darwin.server.ip}:8443/ darwin/conf/darwin_global.conf		☑

Actions:

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

Install Script:

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

2.6 Configure Concurrent Manager Tier

This is to configure Concurrent Manager Tier. The following properties are required.

Property	Description	Notes
SID	EBS Database Name (SID)	
global_conf	To import global parameters in app director	

PORT_POOL	EBS Port Pool	
NEW_APPS_PASS	New APPS Password	
SYS_PASS	SYS/System Password	
SYSADMIN_PASS	SYSADMIN Password	
CUR_APPS_PASS	Current Apps Password	
DB_HOSTNAME	EBS Database Server Hostname	
CM_HOSTNAME	EBS CM Tier Hostname	
AP_HOSTNAME	EBS Apps Tier Hostname	

	Details	Properties		Actions		
Name	**Description**	**Type**	**Catalog Value**	**Blueprint Value**	**Required**
AP_HOSTNAME	EBS Apps Tier Hostname	String	ora-new-ebs-app1	OEL_EBS_APP:SET_AP_HOSTNAME:AP_HOSTNAME	☑
CM_HOSTNAME	EBS CM Tier Hostname	String	ora-new-ebs-ccm1	self:SET_CM_HOSTNAME:CM_HOSTNAME	☑
DB_HOSTNAME	EBS Database Hostname	String	ora-new-ebs-d1	OEL_EBS_DB:SET_DB_HOSTNAME:DB_HOSTNAME	☑
CUR_APPS_PASS	Current Apps Password	String	apps4321	OEL_EBS_DB:EBS_CREATE_DB:CUR_APPS_PASS	☑
SYSADMIN_PASS	SYSADMIN Password	String	admin1234	OEL_EBS_DB:EBS_CREATE_DB:SYSADMIN_PASS	☑
SYS_PASS	SYS/System Password	String	manager1234	OEL_EBS_DB:EBS_CREATE_DB:SYS_PASS	☑
NEW_APPS_PASS	New APPS Password	String	apps1234	OEL_EBS_DB:EBS_CREATE_DB:NEW_APPS_PASS	☑
PORT_POOL	EBS Port Pool	String	0	OEL_EBS_DB:EBS_CREATE_DB:PORT_POOL	☑
SID	EBS Database Name (SID)	String	NEWEBS	OEL_EBS_DB:EBS_ORACLE_COPY:SID	☑
global_conf	To import global parameters in app director	Content	https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		☑

Actions:

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

Configure Script:

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

Additional scripts required for concurrent manager node can be found in repo under folder "EBS_SCRIPTS\cm\"

Files Required:
1) Create_CM.sh
2) APPS_Config_CM.sh
3) AutoConfig.sh
4) txksohm.sh
5) Start_CCM.sh

2.7 Configure Web/Forms Server Tier

This is to configure Web/Forms server Tier. The following properties are required.

Property	Description	Notes
SID global_conf	EBS Database Name (SID) To import global parameters in app director	
PORT_POOL NEW_APPS_PASS SYS_PASS SYSADMIN_PASS CUR_APPS_PASS	EBS Port Pool New APPS Password SYS/System Password SYSADMIN Password Current Apps Password	
DB_HOSTNAME CM_HOSTNAME	EBS Database Server Hostname EBS CM Tier Hostname	
AP_HOSTNAME	EBS Apps Tier Hostname	

Details		Properties		Actions	

Name	Description	Type	Catalog Value	Blueprint Value	Required
AP_HOSTNAME	EBS Apps Tier Hostname	String	ora-new-ebs-app1	*self:SET_AP_HOSTNAME:AP_HOSTNAME*	☑
CM_HOSTNAME	EBS CM Tier Hostname	String	ora-new-ebs-ccm1	*OEL_EBS_CCM:SET_CM_HOSTNAME:CM_HOSTNAME*	☑
DB_HOSTNAME	EBS Database Hostname	String	ora-new-ebs-d1	*OEL_EBS_DB:SET_DB_HOSTNAME:DB_HOSTNAME*	☑
CUR_APPS_PASS	Current Apps Password	String	apps4321	*OEL_EBS_DB:EBS_CREATE_DB:CUR_APPS_PASS*	☑
SYSADMIN_PASS	SYSADMIN Password	String	admin1234	*OEL_EBS_DB:EBS_CREATE_DB:SYSADMIN_PASS*	☑
SYS_PASS	SYS/System Password	String	manager1234	*OEL_EBS_DB:EBS_CREATE_DB:SYS_PASS*	☑
NEW_APPS_PASS	New APPS Password	String	apps1234	*OEL_EBS_DB:EBS_CREATE_DB:NEW_APPS_PASS*	☑
PORT_POOL	EBS Port Pool	String	0	*OEL_EBS_DB:EBS_CREATE_DB:PORT_POOL*	☑
SID	EBS Database Name (SID)	String	NEWEBS	*OEL_EBS_DB:EBS_ORACLE_COPY:SID*	☑
global_conf	To import global parameters in app director	Content	https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		☑

Actions:

Details		Properties		Actions	

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

Configure Script:

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

Additional scripts required for Application node can be found in repo under folder "EBS_SCRIPTS\ap\"

Files Required:
1) Create_AP.sh
2) APPS_Config_AP.sh
3) AutoConfig.sh
4) txksohm.sh
5) Start_APP.sh

2.8 Start EBS Apps

This is to start Web/Forms server. No properties required

Action:

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

Start Script:

```
#!/usr/bin/ksh

# Import global conf
. $global_conf
R_SCRIPTDIR="/oracle/clone/scripts"
R_APPSTARTSCRIPT="$R_SCRIPTDIR/Start_APP.sh"
# Start Apache and Forms Services
su - applmgr -c $R_APPSTARTSCRIPT
```

2.9 Start EBS CCM

This is to start configure Concurrent Manager. No properties required

Action:

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

Start Script:

```
#!/usr/bin/ksh

# Import global conf
. $global_conf

R_SCRIPTDIR="/oracle/clone/scripts"
R_CCMSTARTSCRIPT="$R_SCRIPTDIR/Start_CCM.sh"

# Start Concurrent Manager

su - applmgr -c $R_CCMSTARTSCRIPT
```