ORACLE

Oracle E-Business Suite 12.2 Multi Node Installation

Oracle Private Cloud Appliance

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PURPOSE STATEMENT

This technical paper describes the step-by-step procedure to install Oracle E-Business Suite on an Oracle Private Cloud Appliance environment with multiple nodes (application-tier on one node and database-tier on a different node) using rapid install.

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INTRODUCTION

Oracle Private Cloud Appliance (PCA) is uniquely compatible with OCI providing fast and efficient infrastructure for modern software and business applications. Oracle Private Cloud Appliance has the same infrastructure constructs (including APIs and SDKs) as OCI. This enables customers to adopt a "develop once and deploy anywhere—on-premises or on OCI" approach to rapidly design and develop high-performance applications and middleware.

SCOPE AND CONTENT

This documentation describes the step-by-step procedure to install Oracle E-Business Suite on an Oracle Private Cloud Appliance environment with multiple nodes (application-tier on one node and database-tier on a different node) using <u>rapid</u> install.

ADVANTAGES OF ORACLE PRIVATE CLOUD APPLIANCE

Oracle Private Cloud Appliance (PCA) is an Oracle Engineered System designed for implementing the application and middleware tiers. PCA is an integrated hardware and software system that reduces infrastructure complexity and deployment time for virtualized workloads in private clouds. It is a complete platform that provides optimal performance for a wide range of application types and workloads, with built-in management, compute, storage, and networking resources.

Oracle Private Cloud Appliance is the latest member of the Oracle Private Cloud Appliance product family. PCA provides cloud and administrative services for modernized cloud native applications. It makes use of a modern microservices architecture, Kubernetes, and related technologies, for a future-proofed software stack.

Oracle Private Cloud Appliance delivers private cloud infrastructure and architecture consistent with Oracle Cloud Infrastructure (OCI). PCA brings APIs and SDKs compatible with Oracle Cloud Infrastructure (OCI) to an on-premises implementation at rack scale, making workloads, user experience, tool sets, and skills portable between private and public clouds. PCA can be directly connected to Oracle Exadata to create an ideal infrastructure for scalable, multitier applications. Customers preferring or requiring an on-premises solution can realize the operational benefits of public cloud deployments using Oracle Private Cloud Appliance.

ORACLE E-BUSINESS SUITE ARCHITECTURE

The <u>Oracle E-Business Suite architecture</u> is a framework for multi-tiered, distributed computing that supports Oracle E-Business Suite products. In this model, various servers or services are distributed among three levels, or tiers.

A server (or services) is a process or group of processes that runs on a single machine and provides a particular functionality. For example, web services process HTTP requests, and forms services process requests for activities related to Oracle Forms. The Concurrent Processing server supports data-intensive programs that run in the background.



Fig 1: Oracle E-Business Suite Architecture

PROCEDURE FOR ORACLE E-BUSINESS SUITE MULTINODE INSTALLATION ON A PRIVATE CLOUD APPLIANCE ENVIRONMENT

Node(s) Preparation

```
1. Create two OL7 instances by using VM.PCAStandard1.4 in s PCA environment
```

- 2. Attach block volumes at least 1T for both compute instances.
- 3. Install all required RPM packages for EBS on both compute instances.

```
# sudo su
# export http_proxy="##proxy_address "
# export https_proxy="##proxy_address "
# cd /etc/yum.repos.d
# wget ##proxy_address
--2022-07-27 16:29:55--
Resolving
Connecting to proxy... connected.
Proxy request sent, awaiting response... 200 OK
Length: 16402 (16K) [text/plain]
Saving to: ¿public-yum-ol7.repo¿
100%[========>] 16,402 --..-K/s in 0s
2022-07-27 16:29:55 (210 MB/s) - ¿public-yum-ol7.repo¿ saved [16402/16402]
```

sed -i 's/enabled=0/enabled=1/g' public-yum-ol7.repo

yum update

- # yum install oracle-ebs-server-R12-preinstall
 - 4. Increase swap size

grep SwapTotal /proc/meminfo
Turn swap off
This moves stuff in swap to the main memory and might take several minutes
sudo swapoff -a
Create an empty swapfile
Note that "1G" is basically just the unit and count is an integer.
Together, they define the size. In this case 16GB.
sudo dd if=/dev/zero of=/swapfile bs=1G count=16

Set the correct permissions
chmod 0600 /swapfile
mkswap /swapfile # Set up a Linux swap area
swapon /swapfile # Turn the swap on

5. Modify ulimit settings in limits.conf

Open the /etc/security/limits.conf file and change the existing ulimit settings for "hard" and "soft" parameters as follows. Restart the system after making changes.

Note: If the current value for any parameter is higher than the value listed below, do not change the value of that parameter as the following are suggested minimum values.

- * hard nofile 65536
- * soft nofile 4096
- * hard nproc 16384
- * soft nproc 2047
- * hard stack 16384
- * soft stack 10240
- 6. Install vncserver

yum install tigervnc-server
yum groupinstall "server with gui"

systemctl stop firewalld
yum install xterm

cd /u01
sudo mkdir oracle
sudo chown oracle:oinstall oracle

use oracle user start vnc

vncserver

7. Create oralnst.loc

sudo vi /etc/oraInst.loc
inventory_loc=/u01/oracle/oraInventory
inst_group=dba

Downloading Software and Unzipping Start Here Files

The Oracle E-Business Suite Release 12.2 software distribution includes Oracle E-Business Suite, Oracle Database, and Oracle Fusion Middleware. It is obtainable in zip format from the <u>Oracle Software Delivery Cloud</u>.

Upload all zip files to app VM and DB vm.

```
[opc@ebs-oel7 OEBIZ]$ ls *.zip
V100052-01_3of3.zip V100054-01.zip V100057-01.zip V100059-
01_2of2.zip V100060-01_3of3.zip V29856-01.zip V35803-01_2of3.zip V35804-
01_2of2.zip V75792-01.zip
V100052-01_1of3.zip V100053-01_1of2.zip V100055-01.zip V100058-
01.zip V100060-01_1of3.zip V100061-01.zip V35802-01.zip V35803-
01_3of3.zip V46095-01_1of2.zip
V100052-01_2of3.zip V100053-01_2of2.zip V100056-01.zip V100059-
01_1of2.zip V100060-01_2of3.zip V100102-01.zip V35803-01_1of3.zip V35804-
01_1of2.zip V46095-01_2of2.zip
```

After you have downloaded the components listed above, unzip only the "Oracle E-Business Suite Release 12.2.0 Rapid Install StartHere" files and proceed to apply the patches given in the next section and then run the buildStage script.

Prerequisite for rapid install

Refer: Oracle E-Business Suite Release Notes, Release 12.2 (Doc ID 1320300.1)

- <u>https://support.oracle.com/epmos/faces/DocumentDisplay? afrLoop=106302425058742&id=1320300.1& afrWin</u> <u>dowMode=0& adf.ctrl-state=10sy9cmoll 1054</u>
- Refer: 1.2.1 StartCD 12.2.0.51 Bundle Patch
- Section 1: Instructions for All Customers
 - Download and apply the following patches on Rapid Install stage area:
 - Patch 32947483: RAPID INSTALL CONSOLIDATED BUNDLE PATCH ON TOP OF STARTCD 51 (OCTOBER 2021)
 - o Patch 33637861 Report Domain and OHS deployment errors
 - Patch 33942758 RAPID INSTALL FAILS WITH JAVA.LANG.NULLPOINTEREXCEPTION
 - Patch 33756058 RAPIDWIZ FAILING WITH ORACLE.APPS.FND.TXK.CONFIG.PROCESSSTATEEXCEPTION: BSU PROC
 - Patch 34228607 FIX FOR EBS DOMAIN DEPLOYMENT FAILURE DUE TO LOW ENTROPY
- Section 2: Instructions for New Installation Customers

Running the buildStage Script

This script has several functions, which are selected from a series of menus. A key function is to unzip the rest of the installation software for subsequent use by Rapid Install. In the process, various subdirectories are created under the stage area.

Important: Running the buildStage script is a *mandatory* pre-installation step. The buildStage options you should choose to depend on whether you have an existing stage area or not.

The buildStage script is run as follows on UNIX and Windows:

```
$ cd /u01/oracle/startCD/Disk1/rapidwiz/bin
$ buildStage.sh
Main Menu
Build Stage Menu
1. Create new stage area
```

```
    Copy patches to existing stage area
    List files in TechPatches directory
    Exit menu
    Enter your choice [4]:
```

As shown in the following diagram, the stage area you have built consists of a top-level stage directory, with subdirectories startCD, EBSInstallMedia, TechInstallMedia, and TechPatches.

Starting Rapid Install

Now that the stage directory has been created and the downloaded Oracle E-Business Suite software unzipped, the next task is to ensure your system provides a suitable global inventory location.

```
$ cd <Your stage directory path>/startCD/Disk1/rapidwiz
$ ./rapidwiz
```

Install DB on the db node

• Install DB on the db node using "rapidwiz" utility. Make sure to provide the details of app hostname (not DB hostname) on the window where it asks for app tier details.

Install Oracle E-Business Suite on the app node

- Install Oracle E-Business Suite on the app node. Provide the details of db created earlier on the db node.
 - Reference: <u>https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=215035</u> <u>8.1&id=1453213.1</u>

Standard Installation

This section describes the setup steps for a standard installation, where the user supplies various system-specific parameters. An Express installation is described in <u>Setting Up an Express Installation</u>.

Required Action: Before you perform the steps described in this section, you must have created a stage area using the buildStage script, as described in <u>Setting Up the Stage Area</u>.

Follow the instructions in the section <u>Before You Install</u>. Then complete the following tasks, which are grouped into logical sections.

Important: You do not carry out the installation steps on every node that will be part of your Oracle E-Business Suite system. You carry them out on the database node and primary application tier node, apply the latest release update packs, then use standard cloning commands to scale up to the required number of application tier nodes. The applicable cloning procedures are also mentioned in the relevant sections of this technical paper.

Describe System Configuration

• Start the Rapid Install wizard

Start the wizard from the command line by entering rapidwiz at the prompt. The Welcome screen lists the database and the technology stack components that are installed with Oracle E-Business Suite.

This screen lists the components that are included in, or otherwise supported by, this release of Oracle E-Business Suite. For example, a new installation includes a fresh Oracle Database 12c Release 1 (12.1.0.2).

You can expand the component lists, using the scroll bar to bring all the components into view.



Fig 2: Welcome Screen

This screen is for information only. No decisions need to be made. When you have reviewed the information, click *Next* to continue.

• Select a wizard operation

Use the Select Wizard Operation screen to indicate the action you want Rapid Install to perform. You begin both new installations and upgrades from this screen. Based on the action you choose, the Rapid Install wizard continues with the appropriate screen flow.

Wizard Operation screen with "Install Oracle E-Business Suite Release 12.2.0" option selected

🛃 🛛 İnstall	Oracle E-Business Suite - Wizard Operation	×
Install	 Oracle E-Business Suite - Wizard Operation Wizard Operation This wizard provides a series of screens for either creating a new installation (using the Express option if required), or performing an upgrade to Release 12.2.0 from an existing version. Click Help for details of the options available. Install Oracle E-Business Suite Release 12.2.0 Use Express Install Upgrade to Oracle E-Business Suite Release 12.2.0 	×
Cancel Help	🕜 Back Next 📎	

Fig 3: Wizard Operation with Installation Options

The available actions are as follows:

o Install Oracle E-Business Suite Release 12.2.0

This action sets up a new, fully configured system, with either a fresh database or a Vision Demo database. The configuration is derived from the system-specific configuration parameters you will enter in the Rapid Install wizard and save in the Oracle E-Business Suite database (conf_<SID>.txt file initially, until the database has been created).

• Express Configuration

This install option sets up a fully configured, single-user system with either a fresh database or Vision Demo database. You supply a few basic parameters, such as database type and name, top-level install directory, and choice of port pools. The remaining directories and mount points are supplied by Rapid Install using default values.

Note: The steps in Setting Up an Express Installation in this technical paper describe this option.

• Upgrade to Oracle E-Business Suite Release 12.2.0

Choose this option to indicate that you are upgrading your Oracle E-Business Suite products to the current version of Oracle E-Business Suite. The wizard screen flow presents two paths: one that lays down the file system and installs the new technology stack, and one that configures servers and starts services.

Additional Information: See <u>Oracle E-Business Suite Upgrade Guide: Release 11i to Release 12.2</u> or Oracle E-Business Suite Upgrade Guide: <u>Release 12.0 and 12.1 to 12.2</u>.

Using the following steps, you will set up a new installation. Choose Install Oracle E-Business Suite Release 12.2.0 and then click *Next* to continue.

• Enter your email address. Optionally select the check box to indicate that you wish to receive security updates through My Oracle Support and enter your My Oracle Support password.

Data collected is sent via HTTPS (secure HTTP) to Oracle Support, facilitating pro-active problem avoidance and helping to reduce the time needed for resolution of support issues.

• Screen to enter email details for security updates

	Provide your email ad issues, install the pro manager. <u>View details.</u>	dress to be informed of security duct and initiate configuration
	Email: I wish to receive security My Oracle Support Password	Easier for you if you use your My Oracle Support email address/username updates via My Oracle Support
Cancel Help	D	⊰ Back

Fig 4: E-Mail Entry Page

If submission of your details fails because no connection can be made, a pop-up screen appears prompting for proxy server information:

• Specify Proxy Server Information screen

Specify proxy s	erver information
Proxy Server	
Proxy Port	
Proxy <u>U</u> sername	
Proxy Password	
🗆 I <u>w</u> ant to rema	in uninformed of critical security issues in my configuration
	OK Cancel

Fig 5: Proxy Server Information Screen

If this screen appears, enter the proxy server, proxy port, proxy username, and proxy password. You can optionally select the "I want to remain uninformed of critical security issues in my configuration" check box. Then click *OK*.

• Identify configuration file

On the Configuration Choice screen, you indicate whether you will be using previously saved configuration details.

• Configuration Choice screen

Fig 6: Configuration Choice Screen

🖆 Install Oracle E-Business Suite - Configuration Choice 📃 🗆 🗙			
	Configuration Choice		
	If this is a new install, you will need to create a new system configuration. Alternatively, you can continue from a previous install, using the configuration information stored in the E-Business Suite database.		
	Do you want to create a new configuration or load a saved one?		
	C Create a new configuration		
	Load the following saved configuration		
	dbserver.example.com:SID:dbport Browse		
	Weblogic Server Password		
	Apps OS User Password		
	Apps DB User Password		
Cancel Help) 🔇 Back Next >>		

Fig 7: Configuration Choice Screen

If you choose *Create a new configuration*, Rapid Install saves the configuration parameters you enter on the wizard screens in the Oracle E-Business Suite database, and in a configuration file (conf_<SID>.txt), which is stored in your system's temporary directory until the installation is completed.

If you choose *Load the following saved configuration*, the database connect string field becomes active. For a configuration stored in the database, this field is made up of <host name>:<SID>:<database port>, for example <u>server1.example.com</u>:VIS:1521.

Important: The host name must include the domain.

Enter the appropriate database connect string (or conf_<SID>.txt file location, if applicable) to point Rapid Install to a stored configuration whose parameters you wish to use. Typically, you would choose this option when performing a multinode install.

Conditional Action: If Rapid Install is being run on the database tier using the *Load the following saved configuration* option, you must enter the default password for the apps database user.

After completing this step, click *Next* to continue.

Specify Global System Settings

On the Global System Settings screen, indicate whether you want to accept the default port values. You can specify a *Port Pool* setting to enable multiple Oracle E-Business Suite environments to co-exist on the same machine.

For example, if you select an increment of 3 from the Port Pool list, the values in the Derived Port Settings will reflect this choice. Use the scroll bar to review the port settings, or click Edit Ports to navigate to the Port Values screen.

Clabel Contemp Catting an environment

g Install Oracle E-Bu	Global System Settings	Settings		
	The Port Pool mechanism is u for an Applications system. E values, allowing multiple envi Individual port values can be	sed to specify a se ach pool uses a un ronments to co-ex changed using the	et of port value: ique set of ist on the same : Edit Ports butt	; host. on.
		File System 1	File System	12
	Port Pool: 0	-	1	-
	Derived Port Settings:			
120	Node Manager Port	5556	5557	JA.
	WLS Admin Server Port	7001	7002	
	WLS OACORE Application Por	t 7201	7202	
	WLS FORMS Application Port	7401	7402	
	WLS OAFM Application Port	7601	7602	
P ST	WLS FORMS-C4WS Applicatio	n Port 7801	7802	
	WLS Portlet Application Port	8889	8890	
	OHS Administration Proxy Po	t (9999	10000	
	Database Port	1521	1521	
			Edit Ports	5
Cancel Hein		& Back Ne	e txe	

Fig 8: Global System Settings

The default value of the Port Pool set is zero, but you can customize it by selecting another value from the drop-down list in the Port Pool field. There are 100 port pool selections. If you select an increment of 3, the default values are increased by that value. The Database Port (1521) becomes 1524, the RPC Port (1626) becomes 1629, and so on.

At this point, you can simply accept the values for your chosen Port Pool (and therefore individual ports) by clicking *Next*. This will suffice for many installations.

Optional Action: If desired, you can specify individual port values to meet particular site-specific requirements. Clicking on the *Edit Ports* button will open a screen that allows you to set the values of other ports, as needed.

• Port Values screen

<u>\$</u>	Port Values		×
Port Values	File System 1	File System 2	
Node Manager Port	5556	5557	
WLS Admin Server Port	7001	7002	
WLS OACORE Application Port	7201	7202	
WLS FORMS Application Port	7401	7402	
WLS OAFM Application Port	7601	7602	
WLS FORMS-C4WS Application Port	7801	7802	
WLS Portlet Application Port	8889	8890	
OHS Adminnistration Proxy Port	9999	10000	
Database Port	1521		
RPC Port	1626	1627	
Web SSL Port	4443		
ONS Local Port	6100	6101	
	OK Ca	ancel	

Fig 9: Port Values Screen

When finished on this screen, click OK to return to the Global System Settings screen, and click Next on that screen.

• Define Database Node Configuration

On the Database Node Configuration screen, indicate the kind of database you want to install in the new system, the name you will use to identify it, the machine on which it will run, and that machine's domain name. You then need to confirm the operating system shown on the drop-down list is correct, specify the Oracle user's operating system account name and group, and finally specify the base directory under which the installation is to take place.

• Database Node Configuration screen

- Install Oracle E-Business Suite - Database Node			
	Database Node Config	uration	
	Database Type	Vision Demo Database 🔹 👻	
	Database SID	VIS	
	Database Host Name	dbserver1	
	DNS Domain Name	example.com	
	Database Operating System	Linux x86-64 (64-bit) 🔹 👻	
	Database OS User	oracle	
	Database OS Group	dba	
	Database Base Dir	/d01/oracle/VIS	Browse
	Database Home Dir	/d01/oracle/VIS/12.1.0	Browse
	Datafiles Dir	/d01/oracle/VIS/data	Browse
	Storage Type	File System 👻	
	RAC	Shared OracleHome	
	Instance Prefix	VIS RAG	Nodes
Cancel Help) (🔇 Back Next >>	

Fig 10: Database Node Configuration

Important: The host name for the database tier node cannot be longer than 30 characters. Additionally, the host name must begin with an alphabetic character.

The Rapid Install wizard displays a warning message if the fully qualified domain name (FQDN) exceeds 30 characters. If the host name for the database tier node is no longer than 30 characters, then you can ignore the warning and proceed with the installation. Otherwise, you must update the host name before you proceed.

You can install either a fresh database or a Vision Demo database.

- A *fresh database* is fully configured and ready to be used for a new implementation. This type of database is suitable for any type of system that requires a fresh database, such as a production system or test system. The default name for a production database is PROD. If you are installing a database for another use, for example as a test system or a backup system, choose the Fresh Database option and enter a database name that reflects its purpose, for example TEST.
- A Vision Demo database is used for demonstration or training purposes. It contains a fully configured Oracle E-Business Suite system that has been implemented and populated with a set of transactions for a fictitious company. The Vision Demo database is set up for multiple organizations use. It is installed with the AL32UTF8 character set to maximize the support for character sets in this release. The default database name is VIS.

In the Database SID field, enter the database name, or service name, for the local instance. You can either accept the default database name or enter another name, which must be alphanumeric, must not exceed eight characters in length, must not start with a number, and must not include any spaces.

Important: The database name specified in this field is used to determine the database SID. The database SID may vary depending on your environment.

- In an environment that does not use Oracle Real Application Clusters (RAC), the database SID is the same as the database name.
- In an Oracle RAC environment, the instance number is appended to the database name to form the database SID for each Oracle RAC node.

The Database Install Information screen prompts you for information Rapid Install needs to set up and install the database.

The Database OS User is the account that will own the database technology stack and file system. Enter the name of the Database OS Group. The Database OS User may belong to other groups, but it *must* belong to this group.

If you wish to browse the file system for suitable base directories, click the applicable *Browse* button to open a navigation window.

The *Database Base Dir* field defaults to a sample directory name, using the operating system syntax for the machine where you started the Rapid Install wizard. This directory is the top-level directory that Rapid Install uses to derive the mount points associated with the database.

• Directory Browse navigation window

🛃 Directory Browse 🗙
Choose a directory.
⊕ 🔁 bin
⊕- 🔁 boot
€ 11.2.0
🗈 🕀 🧰 data
€ e 122
ebsdev 🗈
🔁 🧰 lost + found
🗢 🔁 oracle
⊕ in oral oral oral oral oral oral oral oral
🕑 🧰 softwareStage
€ 🔁 d2
Directory. /d1/oracle/VIS
OK Cancel

Fig 11: Directory Browse Navigation Screen

On this screen, click on a suitable folder, or type a path in the Directory field. Click *OK* to confirm your choice and return to the Database Node Configuration screen or click *Cancel* to return without making a selection.

As well as letting you specify the type of storage where the database files will reside, the Database Node Configuration screen enables you to specify whether this database node will be part of an Oracle RAC system.

Conditional Action: Before you perform an Oracle E-Business Suite installation on Oracle RAC, you must ensure that the necessary Oracle Grid Infrastructure is in place. For instructions on how to do this, refer to the document corresponding to your Oracle Grid version:

- My Oracle Support Knowledge Document 1626606.1, Using Oracle 12c Release 1 (12.1) Real Application Clusters with Oracle E-Business Suite Release R12.2
- My Oracle Support Knowledge Document 2676282.1, Installing and Upgrading Oracle Grid Infrastructure 19c for Oracle E-Business Suite Release 12.x Databases

Failure to follow these instructions will result in problems during Oracle E-Business Suite installation in your Oracle RAC environment.

Important: When installing the Grid Infrastructure, you must specify the host name in lower case. Otherwise, Rapid Install will fail with an error like this:

oracle.sysman.assistants.rconfig.engine.InvalidConfigurationException:

Node that has single instance database running should be specified in the NodeList.

Please specify node TESTSYS as part of NodeList at

oracle.sysman.assistants.rconfig.engine.ClusterStep.checkNodeList(ClusterStep.java:203)

In this example, the issue was caused by the host name TESTSYS being in upper case.

Important: On all platforms, the compatible database initialization parameter must be set to 12.1.0 for the Oracle E-Business Suite database and for the ASM instance and ASM disk groups.

After completing this screen, click Next to continue.

• Select product license type (Fresh Database installation only)

When installing a fresh database (not a Vision demo database), the wizard prompts you to indicate the type of licensing agreement you have purchased from Oracle. It then presents the appropriate licensing screen.

Completing a licensing screen does not constitute a license agreement. It simply registers your products as active. The only way to set up a license agreement is to purchase Oracle E-Business Suite products through the Oracle Store or an Oracle sales representative. You will need complete information about your product license before you complete the licensing screens.

et Electioning Type Selection		
🛃 🛛 İnstali O	racle E-Business Suite - Licensing Selection	×
	Select Licensing Type Oracle E-Business Suite can be licensed using either of the following models: Suite Licensing (which allows wide access to product functionality), or Component Licensing (in which E-Business Suite products are licensed individually) © Suite Licensing © Component Licensing	
Cancel Help	S Back Next S	

Select Licensing Type screen

Fig 12: Licensing Type Screen

Rapid Install installs all products regardless of their licensed status. However, you must register products you have licensed so that they are flagged in the system as active. An active flag marks products for inclusion in patching and other tasks that you will perform to update and maintain your system after the initial installation.

Note: Rapid Install automatically installs and registers shared and dependent products for you.

You can register products using either the *Suite license model* or the *Component license model*. Complete only one of these licensing screens, to match your licensing agreement.

If you clicked the Suite licensing option on the Suite Selection screen, the Licensing Page for that option appears.

License Additional Products screen

🛓 İnstall	Oracle E-Business Suite - Licensing Page	×
	License Additional Products	
	Select additional products that you have licensed.	
	Marketing & Sales Marketing TeleSales Advanced Pricing Field Sales Sales for Handhelds Quoting Advanced Pricing Partner Management Proposals Incentive Compensation Channel Revenue Management Accounts Receivables Deductions Settlement Channel Rebates & Point of Sales Management Supplier Ship and Debit Price Protection Advanced Pricing Order Management Advanced Pricing	
Cancel Help) <u> </u>	

Fig 13: Licensing Additional Products

This licensing model allows wide access to Oracle E-Business Suite functionality. By choosing it, Rapid Install automatically registers *all* products included in the Oracle E-Business Suite price bundle. The products that are checked and grayed are licensed automatically as a part of the suite. The ones that are not must be registered separately as additional products; they are not part of the Oracle E-Business Suite price bundle. Place a check mark next to any additional products you have licensed and want to register.

If you clicked the Component licensing option on the Suite Selection screen, the Licensing Page for that option appears.

License Products screen

Fig 14: License Products Screen

Choose this option if your licensing agreement is for individual Oracle E-Business Suite component products. These products are licensed based on the number of authorized users or on the number of business transactions processed. All individual products are listed on this screen. Products that are grayed out cannot be selected unless the "parent" component is selected.

Optional Action: You can register additional products after the initial installation is complete. See License Manager, *Oracle E-Business Suite Maintenance Guide*. Note that once a product is licensed, it cannot be "unlicensed".

Complete the appropriate licensing screen and click Next to continue.

Select Country-Specific Functionality (Fresh Database installation only)

Some systems require the country-specific functionality of a localized Oracle E-Business Suite product. For example, if your company is based in the United States but also operates in another country, products such as Human Resources require additional features to accommodate the labor laws and codes that differ from those in the United States. Register the name of the region associated with the localized product on the Select Country-specific Functionalities screen.

If your company operates only in the United States, you can bypass this screen. If you begin doing business in another country at a later date, you can use License Manager to register the associated region at any time after the original installation or upgrade.

Country-Specific Functionalities - Initial Screen

Fig 15: Country Specific Functionalities Screen

All the country-specific functionalities that Oracle supports are listed on this screen, arranged alphabetically. Doubleclick a region in the Available Regions box to move it into the Selected Regions box or highlight it and click the right arrow (>). To deselect a region, highlight it and double-click or click the left arrow (<) to remove it from the Selected Regions box.

For example, if you select Canada, the screen will look like this.

Country-Specific Functionalities - Subsequent Screen

Fig 16: Country Specific Selections Example

To select or deselect *all* the regions and move them between boxes in a single action, use the relevant double arrows, >> or <<.

After making your selection, click *Next* to continue.

• Select Internationalization Settings (Fresh Database installation only)

American English is the only language installed in your system by default. However, Oracle E-Business Suite supports numerous other languages. These can be activated using License Manager (part of Oracle Applications Manager), and installed after the initial Release 12.2.0 installation is complete.

Additional Information: See License Manager, Oracle E-Business Suite Maintenance Guide.

Internationalization Settings screen

🛃 🛛 Install Oracle	e E-Business Suite - Inter	rnationalization Settings 🛛 🗙
	Internationalization Set Choose your Character Set by Available Languages Arabic - AR Brazilian_Portuguese - PTB Canadian_French - FRC Croatian - HR Cyrillic_Serbian - CSR Czech - CS Danish - DK Dutch - NL Default Territory Database Character Set APPL_TOP Character Set IANA Character Set	tings specifying the language you will use. Selected Languages American_English – US American_English – US American_English – US American_English – US American_English – US Selected Languages American_English – US Selected Languages American_English – US Selected Languages American_English – US Selected Languages American_English – US Selected Languages Selected Languages American_English – US Selected Languages Selected L
Cancel Help) (🛛 Back 📉 Next 📎

Fig 17: Internationalization Settings Screen

The languages you select help determine the available options for the other NLS-related configuration parameters (such as territory and character set) that your system requires and can support.

Additional Information: See Globalization Support, Oracle E-Business Suite Concepts.

Double-click a language in the Available Languages box to move it into the Selected Languages box or highlight it and click the right arrow (>). Highlight a language in the Selected Languages box and click the left arrow (<) to remove it. To select or deselect all languages in a single action, use the double arrows, >> or <<.

Note: You cannot remove American English from the Selected Languages box.

Languages are no longer licensed using Rapid Install; instead, use License Manager (part of Oracle Applications Manager) to license languages. To install new languages after Rapid Install has been run, see License Manager, *Oracle E-Business Suite Maintenance Guide*.

Click Next to continue.

The NLS language and territory settings are stored as profile options in the database. They are configured at the site level when you run Rapid Install. The base language is used for the default language setting and the default territory is used for the territory profile option. Users inherit these values the first time they log in via the Oracle E-Business Suite Home Page.

The base language defaults to American English. If you choose additional languages on the Select Additional Languages screen, they appear in the Selected Languages box.

Rapid Install does not set database date and numeric formats during installation. It uses default formats based on the territory profile setting (as derived from NLS_LANG). The Default Territory is AMERICA at the site level. Enter a new value, as needed, based on your user requirements.

The "Database character set" and the "APPL_TOP character set" drop-down menus initially show US7ASCII as the default character set. Other compatible character sets are listed as well.

Conditional Action: AL32UTF8 is the default character set for the Vision Demo database and the APPL_TOP. You cannot convert either of these character sets. Additional setup steps may be required for systems with fresh install databases that will use AL32UTF8. See <u>Set Up Unicode Character Sets</u> in <u>Finishing Tasks</u> for details.

If you selected an additional language, the character set choices will change to include only those that are compatible with both American English and the additional languages selected.

If you want to change the character set in either the database or the APPL_TOP, select a new value from the dropdown list.

Caution: Any languages you plan to install after the Rapid Install run is complete must be compatible with the character set of your Oracle E-Business Suite system.

The IANA (Internet Assigned Numbers Authority) character set is the Internet-assigned standard character set name used by the web server. See <u>http://www.iana.org/assignments/character-sets</u> for more information.

You can change this value, as needed. Complete the appropriate fields on this screen, and click Next to continue.

• Enter Primary Application Tier Node Information

You have already specified the top-level directory for the database. Now you must specify top-level directory and subdirectories associated with the application tier nodes.

Additional Considerations for Multinode Installs

If you have an environment that uses multiple application tier nodes, you must use the same platform for them all.

Multiple application tier node installation is no longer performed from Rapid Install. Instead, Rapid Install performs a single application tier node installation. You then apply the requisite AD and TXK patches to bring the application tier node to the latest codeline.

Additional Information: For more information, see My Oracle Support Knowledge Document 1617461.1, <u>Applying the</u> Latest AD and TXK Release Update Packs to Oracle E-Business Suite Release 12.2.

After completing this task, you can add a suitable number of further nodes to the environment using standard cloning procedures. This strategy of creating more nodes after the installation is complete avoids the need to patch multiple application tier nodes to the latest codeline.

Additional Information: For cloning instructions, see Section 5.3 of My Oracle Support Knowledge Document 1383621.1, *Cloning Oracle E-Business Suite Release 12.2 with Rapid Clone*.

You can also use the cloning procedures in creating hybrid or DMZ architectures. To learn more about this, refer to My Oracle Support Knowledge Document 1375670.1, *Oracle E-Business Suite Release 12.2 Configuration in a DMZ*.

When you have completed these tasks, you must run the \$INST_TOP/admin/scripts/adstrtall.sh script on the new application tier nodes to start the services.

Important: The following additional step is required on Windows only.

After you have created the required number of additional application tier nodes by cloning, you must go back to the primary application tier node and run the following command:

\$ perl %AD_TOP%\bin\adRegisterWLSListeners.pl -contextfile=<context file>

This only needs to be done on File System 1 (fs1). There is no need to restart any services after running this command. **Primary Applications Node Configuration screen - UNIX**

🖃 Install Oracle E-Business Suite - Primary Applications Node				
	Primary Applications	Node Configuration		
	Primary Host Name	appserv1		
	DNS Domain Name	example.com		
	Operating System	Linux x86-64 (64-bit) -		
	Apps OS User	oracle		
	Apps OS Group	dba		
	Apps Base Dir	/d01/oracle/VIS	Browse	
	Apps Instance Dir	/d01/oracle/VIS	Browse	
	File System 1 Base Dir	/d01/oracle/VIS/fs1		
	File System 2 Base Dir	/d01/oracle/VIS/fs2		
	File System 1 Instance Dir	/d01/oracle/VIS/fs1/inst		
	File System 2 Instance Dir	/d01/oracle/VIS/fs2/inst		
	Non-Editioned File System	/d01/oracle/VIS/fs_ne		
an a general for the second seco	APPLCSF Dir	/d01/oracle/VIS/fs_ne/inst/VIS		
	AppsLog Distribution	Single 👻		
Cancel Help)	<u> ⊰ B</u> ack Next ≫		

Fig 18: Primary Applications Node Configurations Screen

Important: The node name returned by the operating system 'hostname' command for the application tier node cannot be longer than 30 characters. If you configure your system to return only the host name for the node, without the domain name, then the host name must be no longer than 30 characters. If you configure your system to return the fully qualified domain name (FQDN), then the FQDN must be no longer than 30 characters, including the host name, domain name, and periods (.) used as separators. Additionally, the host name must begin with an alphabetic character.

The Rapid Install wizard displays a warning message if the FQDN exceeds 30 characters. If your system returns only the host name as the node name, and the host name is no longer than 30 characters, then you can ignore the warning and proceed with the installation. Otherwise, you must update your configuration before you proceed.

The default sample directories use the syntax of the operating system where you started Rapid Install. In addition, some of the fields are specific to the operating system in use.

The above example shows this screen for a Linux system, where you need to complete the information for the apps OS user (the account that owns the application tier file system and technology stack) and apps OS group (the group to which the apps OS user belongs). Accept the defaults, or enter new values.

On these Primary Applications Node Configuration screens, the *Base Directory* is the top-level directory that Rapid Install will use to derive the mount points for the application tier nodes. You can accept the defaults or enter new values.

Required Action: You must accept the system-supplied defaults for the derived mount points.

The AppsLog Distribution field lets you chose where concurrent processing log and out files are stored.

- Single: The concurrent processing log files for all products will be stored in a single common log file directory under the APPLCSF directory. Likewise, the concurrent processing out files for all products will be stored in a single common out file directory under the APPLCSF directory. This is the default value.
- Product: A directory will be created for each product under the APPLCSF directory, and the concurrent processing log files and out files for each product will be stored in corresponding directories under that product's directory. Additionally, a directory named system will be created under the APPLCSF directory, and the log files and out files for the Internal Concurrent Manager will be stored in corresponding directories under the system directory.

A particular application tier node's role is not defined by the files installed: all the APPL_TOPs on a multinode system contain the same files. Instead, the role is determined by the services that you set as enabled. These services specify the set of processes that will be started on each application tier node, and consequently the functions the node will perform. In other words, there is no concept of a "Forms node", "Web node", and so on, as there is no direct association between installed files and the services that can be run on that machine. This model enforces the three-tier architecture and simplifies tasks such as patching and upgrading.

However, the Web Administration service group is an important exception, which can *only* be enabled on a single application tier node (and *must* be enabled on one node). This Web Administration node is where the WLS Admin Server will reside.

The services provide the following functionality:

Application Tier Node Services Summary

This Service Group:	Supports:		
Root Service	C)	Node Manager
Web Administration	C)	WebLogic Admin Server
Mah Entry Doint Sonvices	0)	Oracle HTTP Server
Web Entry Point Services	0	>	Oracle Process Manager
	0)	OACORE
	C)	OAEA
Web Application Services	C)	OAFM
	C)	Forms
	0	>	Forms-C4WS
	o)	Oracle TNS Listener
Patch Dracoscing Samisos	C)	Concurrent Manager
Batch Processing Services	C)	Fulfillment Server
	o)	Oracle ICSM
Other Comisso	0)	Oracle Forms Services
Other Services	C)	Oracle MWA Service

Currently, the following additional instructions apply to installing and activating application tier services:

- 1. Perform the installation on the node that has been chosen to have the Web Administration (WLS Server Administration) and Web Entry (Oracle HTTP Server) service groups enabled, and then run AutoConfig on this node.
- 2. Be aware that when subsequently creating secondary (managed) nodes, Rapid Install will not run adstrtall.sh. Services will not be running and the installer will display a message to this effect at the end of the install. This failure of the post-install checks is expected.

Application tier nodes have all services enabled by default, but you can customize the services enabled on a particular node. For example:

- To support Web and Forms services: Root Service, Web Entry Point Services, Web Application Services
- To support Concurrent Processing services: Batch Processing Services

Important: Rapid Install will prompt you to enter the WLS Admin and apps OS user passwords. If you run Rapid Install in silent mode, the WLS Admin password will be set to the default.

Required Action: After scaling up your system as needed by cloning to create additional application tier nodes, you will need to start the services by running the command \$INST_TOP/admin/scripts/adstrtall.sh script on the new application tier nodes.

Specify Web Entry Points

In some specialized configurations, described below, you may need to set certain context variables according to your node deployment.

Conditional Action: You will only need to perform these steps if your configuration falls into one of the categories mentioned.

With the unified file system supported in Oracle E-Business Suite Release 12.2, some scripts should only be run on nodes that update URL parameters. For example, in a two-node install, with the database and concurrent processing server running on Node A and Web and Forms services running on Node B, AutoConfig should not update the URL-related parameters when run on Node A, because Node B is the web entry point.

For example, installations that have multiple concurrent processing nodes or simply multiple web entry points may need to have the web entry point variables set to different values. Similarly, when adding a new node to a group of existing nodes, the new node may need to use the existing web entry point or a new web entry point (for example, in a DMZ configuration, when using load balancing; or when using a reverse proxy). In such cases, the web entry point variables must be set in each application context file to point to the correct web entry point, which will typically be the URL used to access the application.

In such circumstances, the following context variables need to be set on the applicable nodes, and AutoConfig run to update the relevant configuration files:

Web-Related Context Variables

This variable:	Specifies the:
s_webentryurlprotocol	Web Entry URL Protocol
s_webentryhost	Web Entry Host
s_webentrydomain	Web Entry Domain
s_active_webport	Active Web Port

Another situation where you need to update the value of s_webentryhost is if you are using a load balancer to distribute processing across all the application tier nodes. In such a case, each of those nodes should have the value of the s_webentryhost variable to be that of the load balancer's host name.

Additional Resources: To learn more about how you can specify the values of context variables, refer to Chapter 3, Technical Configuration, in <u>Oracle E-Business Suite Setup Guide</u>.

Specify Application User Information

Application User Information screen

🗖 Install	Oracle E-Business Suite - Application User	Information
	Application User Information	
	WLS Admin User	weblogic
	WLS Admin Password	
	Confirm WLS Admin Password	
	Apps OS User	oracle
	Apps OS User Password	
	Confirm Apps OS User Password	
	Change Default Passwords	
	Apps DB User Password	
	Confirm Apps DB User Password	
	SYSTEM DB User Password	
	Confirm SYSTEM DB User Password	
	Products DB Users Password	
	Confirm Products DB Users Password	
	SYSADMIN User Password	
	Confirm SYSADMIN User Password	
Cancel Help) 🤇 Back [Next >)

Fig 19: Application User Information Screen

On this screen, you can specify the names and passwords for various user accounts:

- WLS Admin User is the account you use for setting up and managing Oracle WebLogic Server.
- Apps OS User the operating system account you use for setting up Secure Shell (ssh) on the application tier nodes (the same account must be used on all the nodes). The password is also used for the *applsys* and *apps_ne users*.
- *Apps DB User* is the principal Oracle E-Business Suite database account. The password specified here will also be used for the related *applsys* and *apps_ne* accounts.
- SYSTEM DB User is the principal Oracle E-Business Suite database administrative account. The password specified here will also be used for the sys account.
- o Products DB Users is the password for Oracle E-Business Suite product-specific accounts.
- SYSADMIN User is an Oracle E-Business Suite administrative account used in initial setup.

The checkbox to change the default passwords for these accounts is *automatically* checked when this screen appears.

Action: For improved security of your new system, it is recommended that you accept this setting and change the default passwords (the new passwords must contain alphanumeric characters only).

If you wish to retain the default passwords and not change them as recommended, you will need to uncheck the box.

The default passwords are shown after the account names:

weblogic/welcome1

- o apps/apps
- o applsys/apps
- apps_ne/apps
- system/manager
- sys/change_on_install
- o sysadmin/sysadmin
- o abm/abm, ahl/ahl ... zsa/zsa, zx/zx (and all products in between)

Additional Resources: To learn more about managing passwords, refer to section Oracle E-Business Suite Password Management in Chapter 6, Basic DBA Tasks, of *Oracle E-Business Suite Maintenance Guide*.

Conditional Action: If you wish to run Rapid Install in silent mode, for example to avoid having to provide user responses during an upgrade, you must retain the default passwords (including the WLS Admin password). This is because passwords cannot be passed on the command line in silent mode.

Review database node and primary application tier node information.

Node Information screen

- It	stall Oracle E-Business Suite - M	ode Information	
	Node Information		
	Service.	Node Name	Operating System
	🖉 📋 Database Node	dbserv	Linux x86-64 (64
	🛛 🧭 🧻 Primary Apps Node	appserv1	Linux x86-64 (64
		200000	
Cancel Help) (4	Back Next	<u>></u>)

Fig 20: Node Information Screen

At this stage, you have specified details for the database node and the primary application tier node. Rapid Install is no longer used to create multiple Application nodes. Waiting until after installation to add application tier nodes is a time-saving measure for the installation and patching process. After you complete the Rapid Install run you will:

- 1. Apply the latest AD and TXK patches.
- 2. Add application tier nodes by cloning or creating a shared application tier file system.

Additional Resources: When following this strategy of adding application tier nodes by cloning the primary application tier node, refer to My Oracle Support Knowledge Documents 1383621.1, *Cloning Oracle E-Business Suite*

Release 12.2 with Rapid Clone; 1375769.1, Sharing the Application Tier File System in Oracle E-Business Suite Release 12.2; and 1375670.1, Oracle E-Business Suite Release 12.2 Configuration in a DMZ.

You may also refer to Chapter 5, Finishing Tasks, for additional recommendations.

Review Pre-Install Checks

Rapid Install performs a series of system tests to validate the configuration specified. The System Check Status screen checks port availability.

The Validate System Configuration screen appears, to indicate whether various pre-install requirements for the installation have been met. The pre-install check screen then appears:

Pre-Install Checks screen

- In	stall Oracle E-Business Suite - Pre-In	stall Checks
	Validate System Configuration	n
	The pre-install tests are listed below indicates the test results. Click on th of that test. If one or more tests fail resolved before continuing. One or more of the pre-install tests required.	v, each with an icon that he test icon for details , the issues must be show that further review is
	Port Availability	 Mid Tiers connectivity
	Database Pre-install Checks	 Oracle Base validation
	 OS User and Group Check 	🖌 Check OPMN Port Availab
	Port Uniqueness	 File Systems
	✓ File Space	🖌 Temp Space
	Host/Domain	🖌 Stage Area Check
	System Utilities	✓ Web Server Install Prereq
	G[555 D
	,	Retry
		Retty
Cancel Help		K Next >

Fig 21: Pre-Install Checks Screen

The parameters that Rapid Install validates and reports on this screen include:

Pre-Install Tests and Parameters

This test:	Checks:
Port Availability	The ports you selected are available for use.
Database Pre-install Checks	The Oracle E-Business Suite Database meets the necessary requirements.
Port Uniqueness	There are no duplicate defined ports for server processes.
File Space	The specified file systems have sufficient space.
Stage Area Check	The stage area is valid.

This test:	Checks:
Web Server Install Prerequisites	Oracle HTTP (Web) Server requirements have been met.
Mid Tiers Connectivity	Application tier connectivity is working.
OS User and Group Check	The OS user account and group exist, and the user account is a member of the group.
File Systems	The specified file systems exist and have correct privileges.
Host/Domain	The host and domain names are valid.
System Utilities	The required system utilities are available.

The results of each test are labeled with icons. There are three result types:

• Tick (check mark)

The test succeeded. Click the tick to see details of the test performed.

• Exclamation mark (!)

The configuration requires review. Click the *!* to get information about the system test review. Click *Yes* to continue, or *No* if you are going to resolve the issues. Rapid Install displays an alert if you continue without resolving the issues.

• An x mark

All issues marked *x* must be resolved before you continue with the installation. Click the *x* to see the errors. If you can resolve an issue by altering the values provided on one of the wizard screens, click Back until you reach the appropriate screen, and re-enter the values. Some tests must be resolved in the operating system. In that case, you may have to restart the Rapid Install wizard after the problem has been fixed.

If problems are identified, Rapid Install displays a warning in the Oracle E-Business Suite Rapid Install Wizard Alert dialog box when you click *Next*.

Oracle E-Business Suite Rapid Install Wizard Alert dialog box

Fig 22: Oracle E-Business Suite Rapid Install Wizard Alert dialog box

Click *No* to review the issues. When you have resolved any issues, click *Next* on the Validate System Configuration screen to continue with the installation.

Important: For an upgrade with an existing Oracle home when the database is down, the following pre-checks will show a warning as they cannot be tested automatically. You should manually ensure that the check results are correct.

Begin the Installation

On the Component Installation Review screen, Rapid Install lists the components it will install, based on the system parameters you entered in the wizard.

Component Installation Review screen

On DB Node:

Fig 23: Component Installation Review Screen on DB Node

On App Node:

Fig 24: Component Installation Review Screen on App Node

On Single node (DB and App together)

Install Oracle E-Busines	s Suite - Component Installation Review	X
	The setup portion of the installation is complete. Clicking Next will install the following components.	
	Configure Oracle 12cR1 RDBMS 12.1.0.2 Configure Oracle 12cR1 RDBMS 12.1.0.2 Concle Database Fresh Database Concle E-Business Suite Release 12.2.0 Technology Stack Applications Server 10.1.2.3 Developer 10g 10.1.2.3 Java plug-in 1.6.0_27 Oracle E-Business Suite Release 12.2.0 Call and the server is the server	
	Iana Characterset: US-ASCII	
Cancel Help) <u>Sack</u> Next S	

Fig 25: Component Installation Review Screen on Single Node

Click *Next*. Rapid Install now displays another alert dialog box asking you to verify that you are ready to begin the installation. Click *Yes*.

Oracle E-Business Suite Rapid Install Wizard Alert dialog box

Fig 26: Rapid Install Wizard Alert Dialog Box

Monitor Installation Progress

1. Check progress bars

During an installation, Rapid Install displays a main progress bar and an individual progress bar. The main progress bar reports on the completion percentage of the installation as a whole. The individual progress bar reports on the progress of each individual step.

Note: The installation is not complete until all the progress bars disappear from your screen.

Installing Oracle E-Business Suite progress screen

Installing Oracle E-Business Suite	X
Step 1 of 8	
	-
0%	
Command: /u01/user4/PROD2_EBS/12.1.0/temp/PROD2_rws3221363/adrun12c.sh	
0%	٦.
Installing Database Oracle Home.	
Cance	

Fig 27: Install E-Business Suite Screen

Post-Install Review

After the installation is complete, Rapid Install automatically validates the installed Oracle E-Business Suite environment. Tests include database availability, correctly-configured environment files, and functioning listeners.

• Review the information from the tests Rapid Install has completed.

If there is an *!* or *x* icon, click it to see the details. If any of the checks fail, refer to the Rapid Install log files to determine the reason, and resolve each problem before continuing. When the errors are fixed, click Retry to perform the post-install validation again.

Post-Install Checks screen

On DB Node

Install (Oracle E-Business Suite - Post-Install Checks	×
	Validate Completed Installation	
	The post-install check inspects your system for a completed installation. The list below shows the tests that were performed and the results. Click on the test icon for details. This Instance passed all of the post-install tests.	
	Database Availability 🖌 Configuration Upload	_
Cancel Help) (<u>SBack</u> Next »)	

Fig 28: Post Install Checks Screen on DB Node

Fig 29: Post Install Checks Screen on App Node

On Single node (DB and App together)

Install Oracle E-Business Suite - Post-Install Checks		
Install (Oracle E-Business Suite - Post-Install Checks Validate Completed Installation The post-install check inspects your system for a completed installation. The list below shows the tests that were performed and the results. Click on the test icon for details. One or more of the post-install tests show that further review is required.	×
	Database Availability Configuration Upload Environment File DBC File HTTP Help Page Virtual Directory JSP Login Page EBS Domain Validation Retry	
Cancel Help	J 3 Back Next ≫	

Fig 30: Post Install Checks Screen on Single Node

• Click Next if there are no errors.

Rapid Install informs you of the components that it installed on the Finish screen.

Finish screen

On DB Node

	Install Oracle E-Business Suite - Finish	×
	The wizard has completed installing: Oracle Database Technology Stack Oracle Database C-Language Details	×
Cancel Help) <u>& Back</u> Next >) (Einish	\Box

Fig 31: Finish Screen on DB Node

On Single node (DB and App together)

Fig 32: Finish Screen on Single Node

To review the Post-install Checks screen, click *Back*. It is not recommended that you log in to Oracle E-Business Suite now (by clicking on *Connect to E-Business Suite Release 12.2*). Instead, wait to log in until after you have applied the Release 12.2.6 RUP.

Apply the Latest Application Tier Technology Patches to the Run File System (ETPAT)

```
    Refer:

<u>https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=123549357452336&parent=DOCUME</u>

NT&sourceId=1320300.1&id=2749774.1&_afrWindowMode=0&_adf.ctrl-state=1dli1hbtz0_53
```

```
#example code
echo $CONTEXT_FILE
/u01/oracle/VIS/fs1/inst/apps/VIS_ebs-app/app1/admin/VIS_ebs-app.xml
```

#To stop all services before applying ETPAT cd \$ADMIN_SCRIPTS_HOME ./adstpall.sh

Apply required Database Patches

- Refer:
 <u>https://support.oracle.com/epmos/faces/DocumentDisplay? afrLoop=454101699306491&id=1594274.1& a</u>
 <u>df.ctrl-state=1f44kh4ih_363</u>
- Stop all db services and listener before applying patches.
- Download the consolidated patch and apply the patches (38 patches) one by one using Opatch utility, if command "perl <u>eurc_dt.pl</u>" to apply all the patches do not work.
- Rollback the older patches and then apply the new patches, if any of the patches has conflict with older patches.

Apply the Consolidated Seed Table Upgrade Patch

Refer:
 <u>https://support.oracle.com/epmos/faces/DocumentDisplay? afrLoop=454564743822179&id=1320300.1& adf.ctrl</u>
 <u>-state=1f44kh4ih_420</u>

Apply the Latest AD and TXK Patchsets

- Refer: <u>https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=454782767900943&id=1583092.1&_adf.ctrl</u> <u>-state=1f44kh4ih_477</u>
- Refer: <u>https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceld=1583092.1&id=161746</u> <u>1.1</u>

• Refer: Path A: Upgrade and New Installation Customers

```
#Example code
#On DB tier
cd /u01/oracle/VIS/12.1.0/appsutil
mkdir admin
cd admin
cp <patch path>/<patchNumber>/admin/adgrants.sql .
source $ORACLE HOME/VIS <hostname>.env
sqlplus /nolog
[SQL> @$ORACLE HOME/appsutil/admin/adgrants.sql APPS
sqlplus '/as sysdba'
[SQL> ALTER USER EBS SYSTEM ACCOUNT UNLOCK;
[SQL> ALTER USER EBS SYSTEM IDENTIFIED BY manager;
SQL> alter system set optimizer adaptive features=false;
SQL> alter system set " disable actualization for grant"=true;
#Example code
#On app tier
perl $PATCH TOP/<patchNumber>/ad/bin/adValidateEbssystemSchema.pl
sh $ADMIN SCRIPTS HOME/adadminsrvctl.sh start
cd /u01/ebs patches/AD TXK
adop phase=apply patches=<patch1> hotpatch=yes merge=yes
patchtop=/u01/ebs patches/AD TXK
adop phase=apply patches=<patch1> hotpatch=yes merge=yes
patchtop=/u01/ebs patches/AD TXK
source /u01/oracle/VIS/EBSapps.env run
/u01/ebs patches/patches/checkMTpatch.sh
sh $ADMIN SCRIPTS HOME/adadminsrvctl.sh stop
```

sh \$ADMIN SCRIPTS HOME/adnodemgrctl.sh stop

Refer Section 5: Update Database Tier to Latest AutoConfig Code

Apply the Latest Oracle E-Business Suite Release Update Pack for Release 12.2

- Refer: <u>https://support.oracle.com/epmos/faces/DocumentDisplay? afrLoop=455229065468761&id=1583092.1& afrWin</u> <u>dowMode=0& adf.ctrl-state=z1liou7jw_200</u>
- Refer Section 2: Oracle E-Business Suite RUP Information
- Oracle E-Business Suite Release 12.2.11 Readme (Doc ID 2758997.1)
 - https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=455284574608283&parent=DOC
 UMENT&sourceld=1583092.1&id=2758997.1& afrWindowMode=0& adf.ctrl-state=z1liou7jw 249
 - o Refer Section 8: Apply Oracle E-Business Suite 12.2.11 Release Update Pack
 - 8.1 Path A Upgrade and New Installation Customers upgrading to Oracle E-Business Suite 12.2.11 Release Update Pack
 - Refer Section 9: Perform Post-Update Steps
 - Apply Oracle E-Business Suite Release 12.2.11 Online Help
 - Verify security configurations (required)
 - yum list openmotif21-2.1.30-11 (if required)

Refer

https://support.oracle.com/epmos/faces/DocumentDisplay? afrLoop=209774373208219&id=1192205.1& afrWind owMode=0& adf.ctrl-state=t5ezvhxfz_4

- Refer Section 10: Apply Additional Critical Patches
 - o Refer:
 - https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=466465054133049&id=2758997.1 & afrWindowMode=0& adf.ctrl-state=5334t0im4_4#S10

```
#Example code
adop phase=apply patches=<patchNumber>
adop phase=finalize
adop phase=cutover
. <INSTALL_BASE>/EBSapps.env run
adop phase=cleanup
```

RESOURCES

See these reference documents for additional information:

- Oracle E-Business Suite architecture
- Oracle Private Cloud Appliance Release Notes
- Oracle Systems Blog

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