Installing Oracle® Application Server 10g (9.0.4) for SOLARIS (64-bit)

Oracle Application Server 10g (9.0.4) Oracle Application Server Patch set 9.0.4.2



Office of Information and Instructional Technology

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Instructions for Installation of Oracle Application Server 10g (9.0.4) and Patches

Introduction			
Overview	This documentation provides instructions for the OIIT Oracle Application Server 10g (9.0.4) installation for Solaris. This installation will be done twice: once for INB and a second time for SSB. Each environment is contained in two separate Oracle homes.		
	Example: /oracle/product/ias9.0.4 (SSB)		
	/oracle/product/forms9.0.4 (INB)		
	More detailed explanations are available in supporting documentation from Oracle. A Quick Installation and Upgrade Guide for 10g(9.0.4) is located on the <u>ftp.usg.edu</u> in /banner/prod/oracle/solaris/OAS10g/quickinstall_solaris.pdf		
Notes and Tips	You should preview the entire document before beginning the upgrade process.		
Rationale	Starting with Banner 7x, SSB and INB require Oracle Application 10g.		
Objective	These instructions guide you through the process of installing the following:		
	• Oracle Application Server 10g(9.0.4)		
	• Oracle Application Server Patch set 9.0.4.2		
Target Audience	Database Administrators and System Administrators		
Document Organization	This document includes the following sections:Introduction		
	Graphics and Conventions		
	• Support		
	Verifying Installation Requirements		
	• Preparing to Start the Installation Process		
	• Installing Oracle Application Server 10g (9.0.4)		
	Applying Upgrade Patchset		
	Completing Post-upgrade Procedures		

Graphics and Conventions

Graphics	Graphic cues used in this document assist with labeling of steps and items that are particularly important.
	Steps for recovery or support.
	For additional information, see references.
	Exercise caution.
Dangeri	Warning: an error here is critical.
	Steps are different for SOLARIS.
Notes and Tips	Notes and tips to make the process easier.
ø	On target: steps completed successfully.
	Time estimate.

Support

OIIT Customer Services

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Report problems or request support by contacting OIIT Customer Services in one of the following ways:

- Web <u>http://www.usg.edu/customer_services</u>
- Toll-free phone 1-888-875-3697
- E-mail <u>helpdesk@usg.edu</u>

Verifying Installation Requirements

Section Overview	Verify that your system meets the hardware, disk space, and operating system requirements before beginning the installation.		
Time Estimate	The estimated time to prepare for the install is 30 minutes.		
1. Check Hardware Requirements	Check that your machine has the fol	lowing minimum resources:	
Requirements	OS Prerequisites	Version 9.0.4	
	Memory in Gig of Ram	> 1.0	
	Disk Space in GB	> 1.50	
	Swap Space in GB	> 1.0	
	Temporary Disk Space /tmp in MB	> 500	
		If not enough space (1/2 gig) in /tmp, set the following variables to point to a location that has sufficient space available: Ex. TEMP setenv TEMP /u01/app/oracle/tmp	

2. Check Operating System Version Requirements

Check that you have the proper operating system version required to install Oracle Application Server 10g:

Platform	OS Version	Command
SOLARIS (64bit)	2.9	\$ uname -a

3. Check Operating System Patches

Verify that the correct Operating System patches have been successfully applied. Check with your system administrator to ensure that the latest patches recommended by OIIT Enterprise Infrastructure Services (EIS) have been applied to the Solaris Operating System.

Operating System	Patches
Solaris (64 bit)	The following patches, among others, are all included in the EIS patchset:
	 113096-03 or higher: X11 6.6.1: OWconfig patch
	 1127585-26 or higher: X11 6.6.1:Xsun patch



On target: System meets the hardware, disk space, and operating system requirements needed for installation.

Preparing to Start the Installation Process

Section Overview	The steps outlined in this section explain how to mount a CD to a stage area before performing the installation.	
Time Estimate	The estimated time to mount the CD is 30 minutes or less.	
4. Mount CDs	The software is provided on one CD-ROM for Solaris	
5. Create Area for Disk Contents	You can choose to install directly from CD-ROM, or copy to disk. For simplicity, we assume that all the disks are copied to a file system that is not in use by other applications.	
Notes and Tips	For further instructions on mounting the CD-ROMs, consult the <i>Oracle Application Server 10g Quick Installation and Upgrade Guide.</i>	
	• Create a staging area for the contents of the CD. You'll need about 800M of space for the CD contents.	
	Example: /oracle/stage/	
	• Create a directory off a mount point named something like forms9.0.4	

• Create directories under that directory named Disk

	,
6. Copy Disk Contents to Correct Directory	• Copy the contents of Disk to the /oracle/stage/iAS9.0.4/Disk directory.
,	• To copy the contents, use the following " <i>cpio</i> " command from the CD-ROM drive:
	% find . –depth –print cpio –pdmu /oracle/stage/iAS9.0.4/Disk1
	• Dismount the CD when the copy is complete, using the appropriate command for your operating system. If you need additional assistance, contact OIIT Customer Services.
	• Repeat the mount step and the copy step for all disks.
	• Then use the unzip command to unzip the zip files.
	• Dismount the CD when the copy is complete, using the appropriate command for your operating system. If you need additional assistance, contact OIIT Customer Services.
	 Using your SW* account, download the DISK files from banner/prod/oracle/solaris/OAS10g/Disks from <u>ftp.usg.edu</u>
	• You may also upload the files to your UNIX server from the CD Drive on your workstation.
7. Establish Network Connection	Some X terminal installations have experienced problems with Reflection and Xwin32. Exceed seems to be the most reliable software.
Notes and Tips	During testing, Exceed failed to display some of the Oracle installer buttons properly. Eliminate this problem by setting your Exceed software to load fonts from the server:
	Start>>Programs>>Hummingbird>>Exceed>>Xconfig
	• Double click Fonts, click the Font Database button, and click Add.
	When the Add Font Directory window is displayed, ensure that the Load radio button is selected for Status, then select the Server radio

button.

When the Add Font **Server** window is displayed, enter the fully qualified domain name of the server to which you plan to connect for installation of Oracle products, click **OK** twice, click **CLOSE** and then exit the Xconfig program.

Oracle Application Server	and instructional rechnology	
8. Log On	Log in as the Oracle user.	
	Check the following <i>umask</i> setting for the Oracle user:	
₹ 	% umask	
Dangeri	If <i>umask</i> command does not return 022, then set it for the following Oracle user:	
	% umask 022	
	WARNING: Do not install the Oracle software as the root user.	
9. Verify Environment Variables	Verify that the following environment variables are set correctly before attempting to start the Oracle Installer:	
	SOLARIS	
	DISPLAY	
	TMPDIR **(See note) TMP **(See note)	
	TEMP	
	**Note: If not enough space (1/2 gig) in /tmp, set the following variables to point to a location that has sufficient space available:	
	Ex. TMP setenv TMP /u01/app/oracle/tmp	

```
./app/
```

Ex. **TMPDIR** setenv TMPDIR /u01/app/oracle/tmp

See Oracle Application Server 10g Quick Installation, for more information.



On target: preparation steps for installation completed successfully.

Installing Oracle Application Server 10g (9.0.4)

Section Overview	This section provides the steps to install Oracle Application Server using the Oracle Universal Installer that runs in an X terminal window.		
	This section lists the selections you make for each screen of the installer.		
Time Estimate	Up to 2 hour		
Installing the Soft	ware with the Oracle Universal Installer		
1. Start Oracle	Start the Oracle Installer from the hard drive:		
Installer	Example:		
	% cd /oracle/stage/forms9.0.4/Disk1		
	% runInstaller		
2. Respond to Welcome	Welcome Screen		
	Coracle Universal Installer: Welcome		
	Welcome		
	The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.		
	Click "Installed Products" to see all installed products.		
	Deinstall Products		
	About <u>O</u> racle Universal Installer		

• Choose NEXT.

Help

RAC

Installed Products..

NOTE: If you have no other ORACLE products on your machine, you will be prompted to create your oralnventory **directory**.

Next

Cancel

[nstall

3. Establish File Locations

File Locations Screen

Source: Accept the current value.

🕻 Oracle Universal Installer: Specify File Locations	
Specify File Locations	
Source	
Enter the full path of the file representing the product(s) you want to install:	
Path: /oracle/stage/ias904a/Disk1/stage/products.jar	Browse
Destination	
Enter or select an Oracle Home name and its full path:	N
Name: FORMS	
Path: /oracle/product/forms9.0.4	Browse
About	t <u>O</u> racle Universal Installer
Help Installed Products Back Next	i İnstall <u>C</u> ancel
DRACLE	

Example:

/oracle/stage/ias9.0.4/Disk1/stage/products.jar

Destination Name: Enter the name of the new Oracle Home Example:

FORMS

Destination: Accept the value if it equals the desired Oracle Home location. Example:

/oracle/product/forms9.0.4

Choose NEXT.

4. Select Language

Language Selection



- Select a language to install: ENGLISH
- Choose NEXT

5. Specify Instance Name and ias_admin password

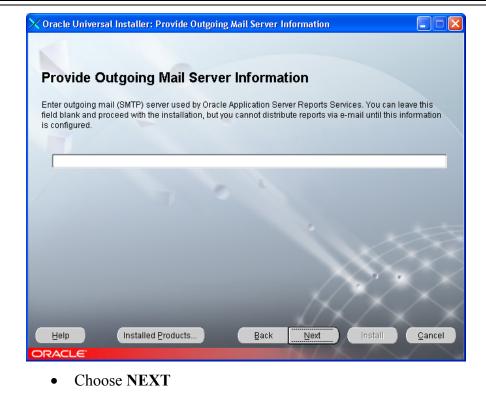
🗙 Oracle Universal Insta	ller: Specify Instance Name and ias_admin Password
Specify Instance	e Name and ias_admin Password
	rer Forms and Reports Services instances installed on a host must have unique Id domain name of the host are appended to the instance name.
	erver Forms and Reports Services instance has its own password, regardless of installation. Passwords are not shared across instances, even if the instances e user.
By default, the password characters must be a nun	must have a minimum of 5 alphanumeric characters, and at least one of the iber.
Administrator Username:	ias_admin
Instance Name:	
ias_admin Password:	
Confirm Password:	
Help Inst	alled <u>Products</u> <u>Back Next</u> (nstall <u>Cancel</u>
DRACLE	

• Key in the INSTANCE name.

Example: FORMS

- Key in an *ias_admin* password you will need to remember this password for login into the admin page.
- Choose NEXT

6. Provide outgoing Mail Server Information



7. Summary



×	Pracle Universal Installer: Summary	
	Summary Dracle Application Server Forms and Reports Services 10g 9.0.4.0.0	
	⊋-Global Settings	
	-Source: /oracle/stage/ias904a/Disk1/stage/products.jar	<u>**</u>
	-Oracle Home: /oracle/product/forms9.0.4 (FORMS)	
	Installation Type: Oracle Application Server Forms and Reports Services	
	- → Product Languages	
	English	
	⇒Space Requirements	
	-/oracle/ Required 1.25GB : Available 21.62GB	
	/tmp/ Required 41MB (only as temporary space) : Available 213MB	
	->New Installations (177 products)	
	-Advanced Queueing (AQ) API 9.0.1.5.0	
	Agent Required Support Files 9.0.4.0.0	
	Apache Configuration for EJB 9.0.1.0.1	
	Apache Configuration for Oracle Java Server Pages 9.0.4.0.0	
	Help Installed Products Back Next Install Ca	ncel
0	RACLE	

- Review the summary of the installation to make sure you have selected the correct requirements
- Choose INSTALL

8. Installing



9. Run Root.sh

Setup Privileges Dialog Box

🗙 Oracle Universal Installer: Inst	all	_ 🗆 🗙
1 A A A A A A A A A A A A A A A A A A A		
Install		
Copy success	leges	×
Link successfi Setup success	A configuration script needs to be run as root installation can proceed. Leaving this window open another window and run Yoracle/produc	v open, tiv st/forms9.0.4
Configuration ;	/root.sh' as root, then return to this window ar to continue.	nd click OK Identity Int ure
		OK ertificate and more
moving Voracle/product/forms9.0.4/	tmpfile' to '/oracle/product/forms9.0.4/install/90 94%	Scalable, Standards Compliant Enterprise Infrastructure
Stop installation		
You can find a log of this install ses /oracle/product/orainventory/logs/li	ssion at: nstallActions2006-02-21_11-39-21AM.log	$\sim \sim \sim$
	Products Back Next	Install Cancel

- Make sure that you have backup copies of your ORAENV and CORAENV files.
- Connect as the root in another terminal session and run the script specified on the screen named root.sh in the Oracle Home location.
- Choose OK.

10. Configuration Assistants

	Tool Name	Status	Туре	
	HTTP Server Configuration Assistant	Succeeded	Recommended	
	Oracle Net Configuration Assistant	Succeeded	Recommended	
	Web Cache Configuration Assistant	Succeeded	Recommended	
	OC4J Configuration Assistant	Succeeded	Recommended	
	BC4J Configuration Assistant	Succeeded	Recommended	
	Reports Configuration Assistant	In progress	Recommended	
J.	OracleAS Instance Configuration Assistant	Pendina	Recommended	
			Retry S	top
Det	ails (see full log at /oracle/product/oralnventory/log:	s/installActions2006-02-	21_09-59-23AM.log):	1
rep /ora 200	sman/webapps/emd/WEB-INF/lib/reportsConfig.jar orts.config.ReportsConfig-oracleHome /oracle/pro acle/product/forms9.0.4/j2ee/deploy.iniReports.con j6Retry.count 1 at Tue Feb 21 11:23:03 EST 2006 or obtaining schema info: portal	duct/forms9.0.4 -deploy	IniLocation	IS.

• Choose NEXT

🗙 Oracle Universal Installer: Co



	ersal Installer: End of Installation	
End of I	nstallation	
The install was succe	ation of Oracle Application Server Forms and Reports Services 10g ssful.	
Please rem	ember	_
	ng information is available in: duct/forms9.0 <mark>.</mark> 4/Apache/Apache/setupinfo.txt	
Use the foll	owing URL to access the Oracle HTTP Server and the Welcome Page:	
http://coke.	bor.usg.edu:7778	
 Use the foll Control:	owing URL to access the Oracle Enterprise Manager Application Server	
Click the Rel	ease Information button to view current release information.	\times
Release Ir	formation	
Help	Installed Products Back Next Install	Exit
DRACLE	NEDK TAN	

- Make sure record the Display port numbers
- Choose Exit

NOTE: Repeat steps starting with step 1 for the second installation for SSB.

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Applying Oracle Application Server Patchset 9.0.4.2

Section Overview	A natchset is requ	ired to upgrade Oracle Appl	lication Server 10g	
	(9.0.4) to Version	9.0.4.2. As with 9.0.4, a se both <i>\$ORACLE_HOMES</i> .		
Prerequisites	Oracle Application Server 10g Release 2 (9.0.4)			
	Oracle Application Server Forms and Reports Services 10g (9.0.4)			
" —— "	Ensure the system configuration meets the recommended system configuration described in Oracle Application Server 10g Release 2 (9.0.4) documentation.			
		cle software and inventory breaking any other changes		
Time Estimate				
	1 hours			
1. Verify Environment Variables	verify that the following environment variab before attempting to install the patchset.		es are set correctly	
		Solaris		
		DISPLAY		
		ORACLE_HOME		
		ORACLE_SID		
		ORA_NLS33		
		ORACLE_BASE		
		TMPDIR **		
		TMP **		
		TEMP		
		PATH		
		LD_LIBRARY_PATH		

** If not enough space (1/2 gig) in /tmp, set the following variables to point to a location that has sufficient space available:

Example: тмр	setenv TMP /u01/app/oracle/tmp	
Example: тмрол	setenv TMPDIR /u01/app/oracle/tm	np

2. Download the Patch Files	• Start the ftp session from your staging directory.
Files	 Connect to <u>ftp.usg.edu</u> using your institution's ID and password.
	• SOLARIS.
	 Navigate to the banner/prod/oracle/hpux11i/OAS10g directory.
	 Download the following zip file: banner/prod/oracle/solaris/OAS10g p4365154_9042_SOLARIS.zip
	• At the conclusion of the download, the zip patch files should reside in the staging directory.
3. Unzip the Files	If your machine doesn't have an unzip utility, download it from Oracle via an Oracle Metalink account. Get the file from http://updates.oracle.com/unzips/unzips.html.
	Use your Metalink account to download the unzip utility.
4. Shutdown Processes	Stop all processes running in or against the ORACLE_HOME that will be used for the installation.
	Use the following command to check whether processes are running:
	\$ORACLE_HOME/opmn/bin/opmnctl status
	Use the following command to stop all processes:
	\$ORACLE_HOME/opmn/bin/opmnctl stopall
	Use the following to stop iasconsole
	\$ORACLE_HOME/bin/emctl stop iasconsole
5. Start Oracle	Start the Oracle Installer.
Installer	Example:
	% cd stage-directory/Disk
	% runInstaller

6. Welcome Screen

Welcome Screen



7. Establish File Locations

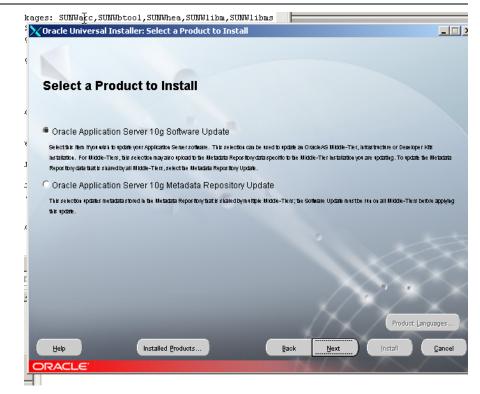
File Locations Screen

Oracle Universal Installer: Specify File Locations		
Specify File Locations		
Source		
Enter the full path of the file representing the product(s) you want to install:		
Path: //oracle/product/forms9.0.4/patches/p3784229/Disk1/stage/products.	.jar	Browse
Destination		
Enter or select an Oracle Home name and its full path:		
Enter or select an Oracle Home name and its full path: Name: [NB		
Enter or select an Oracle Home name and its full path: Na <u>m</u> e: <mark>INB</mark>	v v	
Enter or select an Oracle Home name and its full path: Name: [NB		
Enter or select an Oracle Home name and its full path: Name: [NB		
Enter or select an Oracle Home name and its full path: Name: NB Path: /oracle/product/forms9.0.4		Browse
Enter or select an Oracle Home name and its full path: Name: NB Path: /oracle/product/forms9.0.4		Browse
	About <u>O</u> racle Univ	Browse

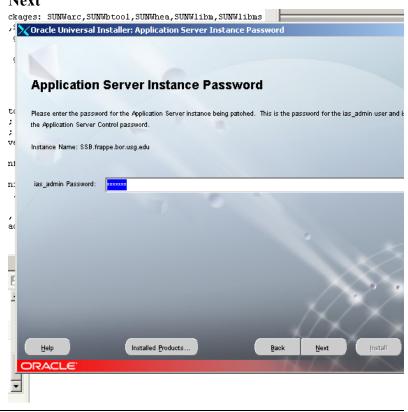
- Click the **BROWSE** button for the Source entry field and navigate to the stage directory where you unpacked the patchset tar file.
- Select the products.jar file. Click the NEXT button.
- The products file will be read and the installer will load the product definitions. The products to be loaded will be displayed.

Example:

/oracle/product/forms9.0.4/patches/p4365154/Disk1/stage/products. jar



- Select a product to install: Oracle Application Server 10g Software Update . Click Next
- Key in the your ias_admin password. Click Next

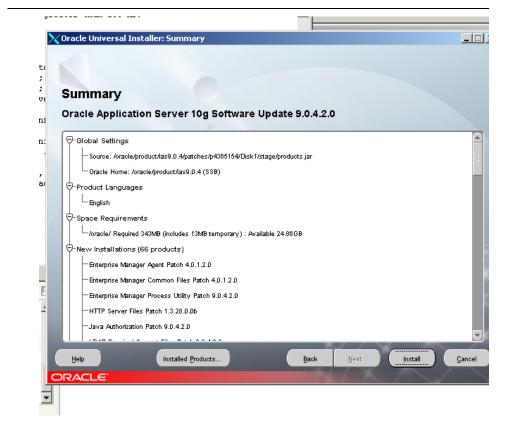


8. Warning



Racle Universal Installer: Appli	cation Server Instance Password		
Application Server	Instance Password		
Please enter the password for t ias_admin user and is the sam	Warning		This is the password for the
Instance Name: INB.sprite.bor.u	At this time, the Oracle Application Se middle-tier will be shut down. There be a brief pause in the installation wh the middle-tier processes are stopped	may hile	
ias_admin Password:	Click Help for more information. Click OK to continue.		
		•	175
			$\sim \sim \sim$
_	4	$\left(\right)$	$\times \longrightarrow \times$
Help Installed P	roducts Back	Next	Install Cancel

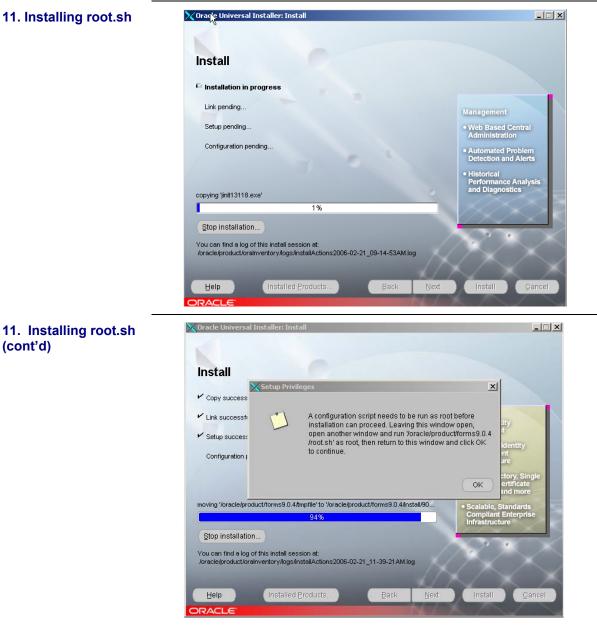
• Notice that if application is up it will shutdown.



- Review the summary of the installation to make sure you have selected the correct requirements
- Choose INSTALL.

10. Summary





- Make sure that you have backup copies of your ORAENV • and CORAENV files.
- Connect as the root in another terminal session and run the • script specified on the screen named *root.sh* in the Oracle Home location.
- Choose OKAY •

(cont'd)

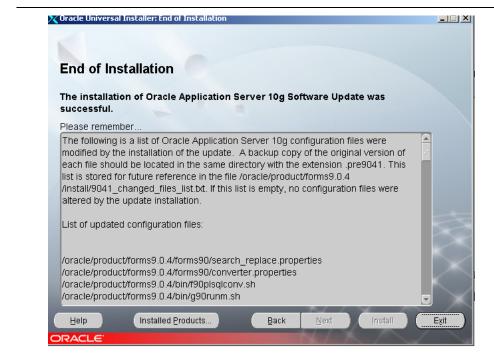
_ 🗆 X

12. Configuration Assistants

		Status	Туре
	OC4J Instance Configuration Assistant	In progress	Recommended
1	DCM Repository Update Assistant	Pending	Recommended
1	OPMN Configuration Assistant	Pending	Recommended
1	Application Server Control Configuration Assistant	Pending	Recommended
			Retry Stor
	ails (see full log at /oracle/product/oralnventory/logs/in	stallActions2006-02-	21_09-14-53AM.log):
		T 2006	

• Choose NEXT.

X Oracle Universal Installer: Configuration Assista



• Choose EXIT

Repeat steps starting with step 1 for the second installation for your second oracle home.

13. Set Environment Variables

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Completing Post-upgrade Procedures

Overview	Post-upgrade procedures are needed to complete the installation.		
1. Modify the tnsnames.ora and sqlnet.ora	Copy the tnsnames.ora and sqlnet.ora from your database server to your \$ORACLE_HOME/network/admin to both ORACLE_HOME.		
2. PL/SQL TOOL KIT	Install the IAS PL/SQL toolkit into your database		
	Position yourself in \$ORACLE_HOME/Apache/modplsql/owa directory.		
	 Log into SQLPLUS as SYS and run a script named "owaload.sql" 		
	• Type the following command:		
	\$ > sys/password @ SERVICE as sysdba		
	NOTE : Your remote password for sys must be set. On your database server.		
	1. Orapwd file=filename(orapwSID) password=password enteries=max_users		
	2. Set the remote_login_passwordfile initialization parameter to EXCLUSIVE in your init.ora file. Shut down and restart the database so the change parameter takes effect.		
	3. Run GURALTR utility script to compile functions, views, packages and procedures which are in an invalid state. This is done to prevent the upgrade process from failing if it attempts to use one of these objects. All errors should be resolved before continuing to the next step.		