Installing Oracle® Application Server 10*g* (9.0.4) for HP-UX PA-RISC (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 HP-UX. 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 ftp.usg.edu in /banner/prod/oracle/hpux11i/OAS10g/quickinstallhp_ux 64-bit.pdf.
	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.
	Warning: an error here is critical.
	Steps are different for HP-UX.
	Notes and tips to make the process easier.
	On target: steps completed successfully.
	Time estimate.

Support

OIIT Customer Services	Report problems or request support by contacting OIIT Customer Services in one of the following ways: • Web http://www.usg.edu/customer_services • Toll-free phone 1-888-875-3697 • E-mail helpdesk@usg.edu

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 following minimum resources:

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
HP-UX (64bit)	11.11	$ 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 HP-UX Operating System.

Operating System	Patches
HP-UX (64 bit)	The following patches, among others, are all included in the EIS patchset: • Dec 2001 Consolidate Patches • PHCO_23792 • PHKL_25212 • PHKL_25506 • PHKL_27091 • PHKL_28267 • PHNE_28089 • PHSS_24638 • PHSS_24638 • PHSS_26263 • PHSS_26792 • JDK 1.4.05 or higher

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

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Preparing to Start the Installation Process

Section Overview	The steps outlined in this section explain how to mount CDs to a stage area before performing the installation.
Time Estimate	The estimated time to mount the CDs is 30 minutes or less.
1. Mounts CDs	The software is provided on two CD-ROMs for HPUX . Example: mount –o cdcase /dev/cdrom /cdrom
2. 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. For further instructions on mounting the CD-ROMs, consult the *Oracle Application Server 10g Quick Installation and Upgrade Guide.* • 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 Disk1, Disk2 •

3. Copy Disk Contents to Correct Directory

- Copy the contents of Disk1 to the /oracle/stage/iAS9.0.4/Disk1 directory.
- Copy the contents of Disk2 to the /oracle/stage/iAS9.0.4/Disk2 directory.
- To copy the contents, use the following "***cpio"*** 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/hpux11i/OAS10g/Disks/B13222-01.zip B13223-01.zip from ftp.usg.edu
- You may also upload the files to your UNIX server from the CD Drive on your workstation.

4. Establish Network Connection

Some X terminal installations have experienced problems with Reflection and Xwin32. Exceed seems to be the most reliable software.

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.

5. Log On

Log in as the Oracle user.

Check the following *umask* setting for the Oracle user:

% umask

If *umask* 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.

6. Verify Environment Variables

Verify that the following environment variables are set correctly before attempting to start the Oracle Installer:

HP-UX
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`

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

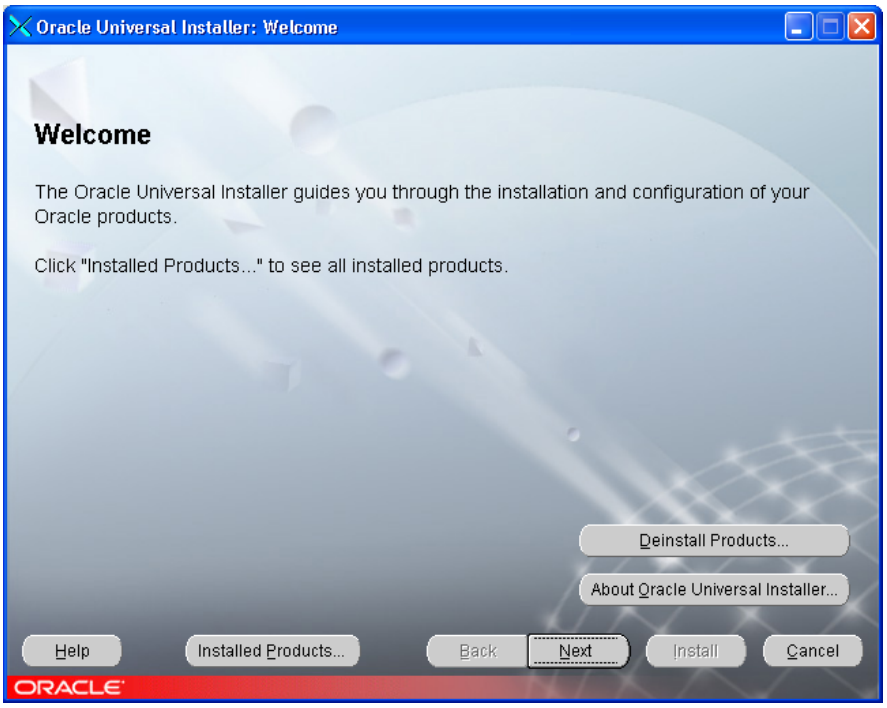
See *Oracle Application Server 10g Quick Installation*, for more information.

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

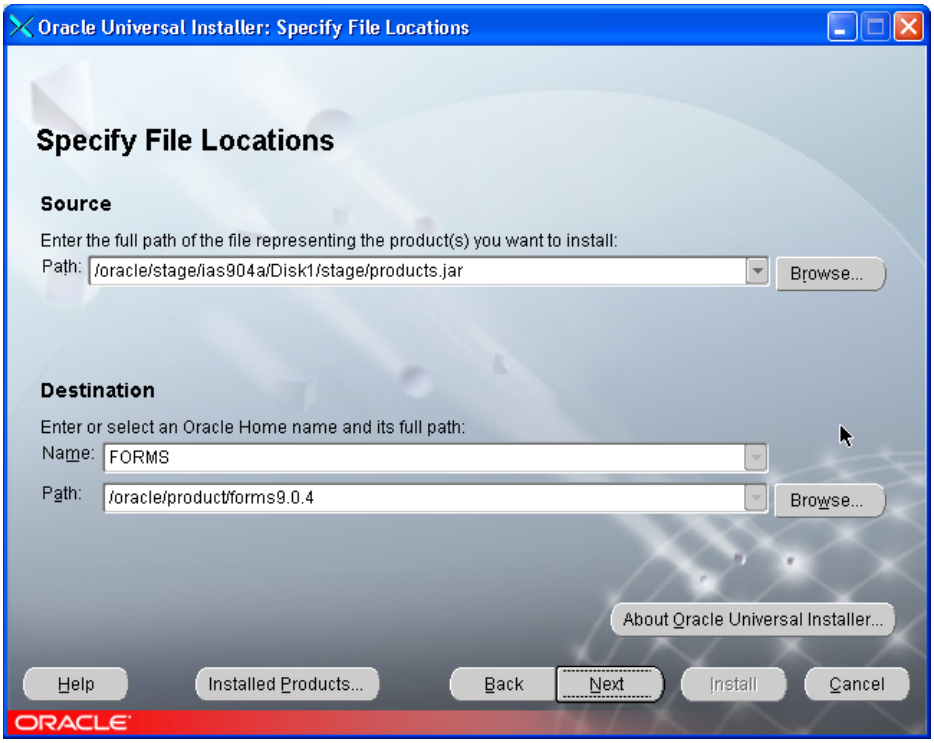
Installing the Software with the Oracle Universal Installer

1. Start Oracle Installer	Start the Oracle Installer from the hard drive: Example: **% cd /oracle/stage/forms9.0.4/Disk1** **% runInstaller**
2. Respond to Welcome	**Welcome Screen**  • Choose **NEXT**. **NOTE**: If you have no other ORACLE products on your machine, you will be prompted to create your oraInventory directory.

3. Establish File Locations

File Locations Screen

Source: Accept the current value.



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.

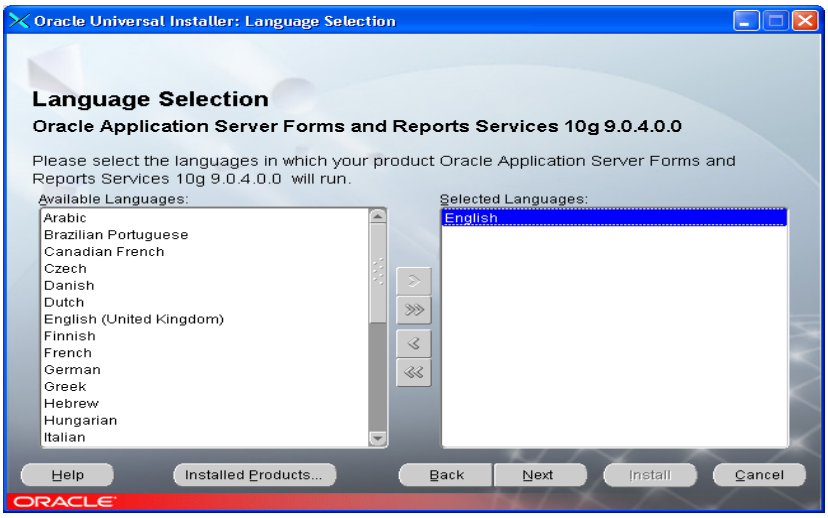
Example:

/oracle/product/forms9.0.4

Choose **NEXT**.

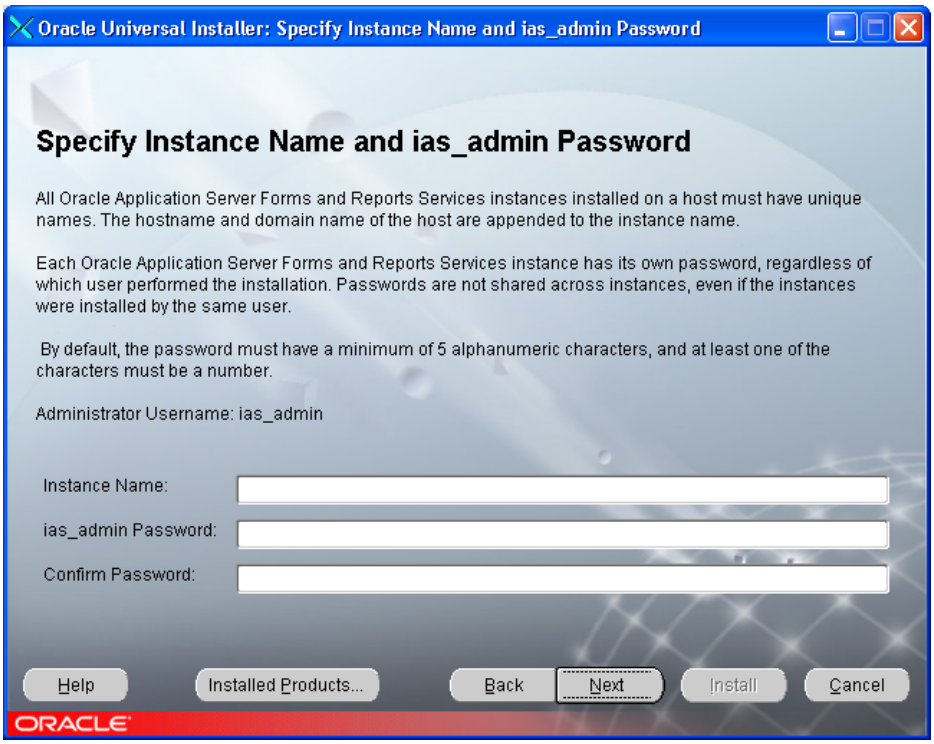
4. Select Language

Language Selection



- Select a language to install: **ENGLISH**
- Choose **NEXT**

5. Specify Instance Name and ias_admin password

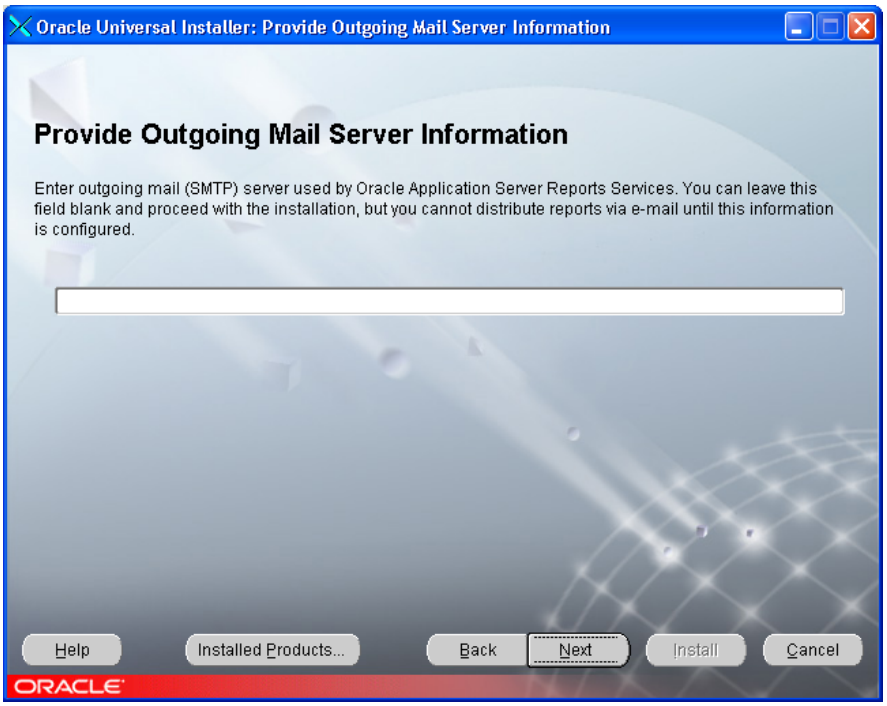


- Key in the INSTANCE name.

  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

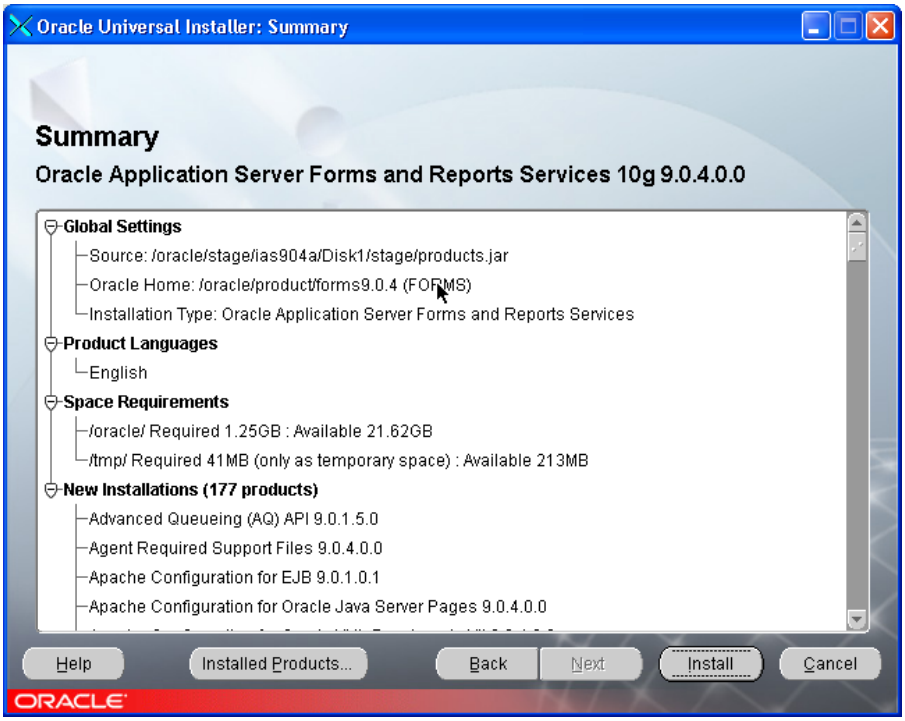


- Choose **NEXT**

7. JDK Home

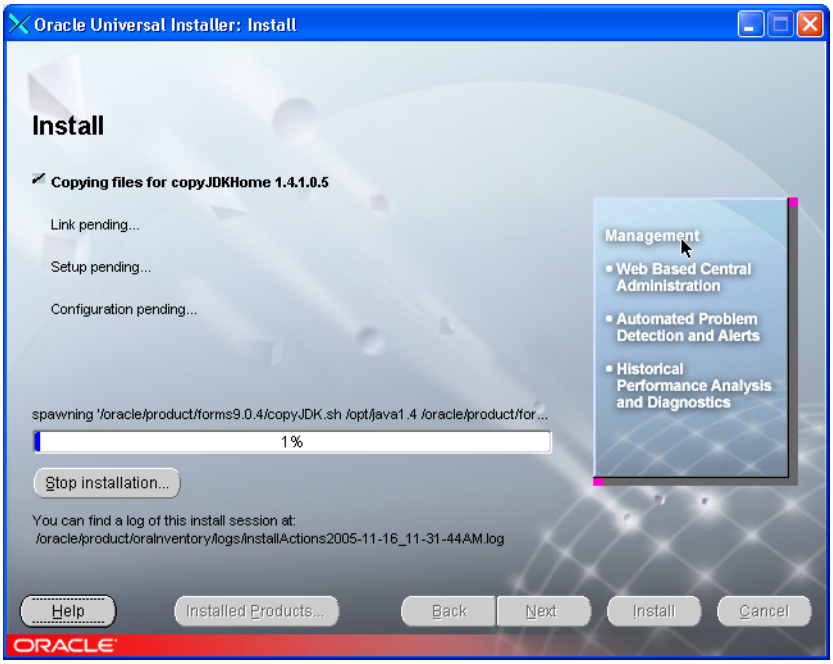
- Key in the location of your Java 1.4.x.
- Choose **NEXT**

8. Summary



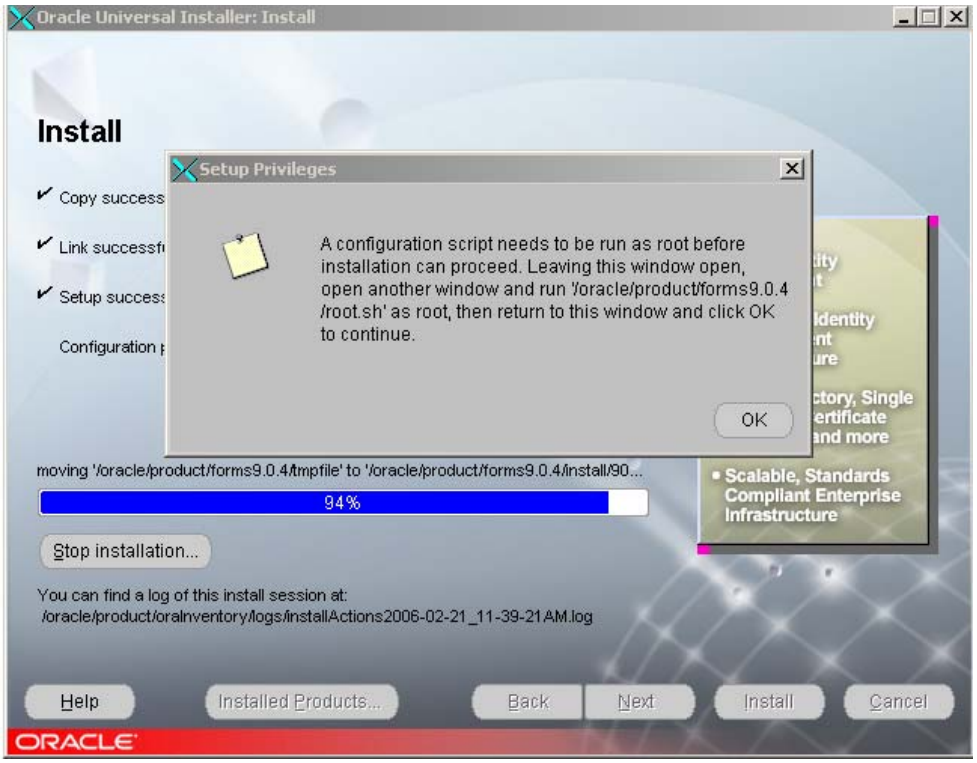
- Review the summary of the installation to make sure you have selected the correct requirements
- Choose **INSTALL**

9. Installing



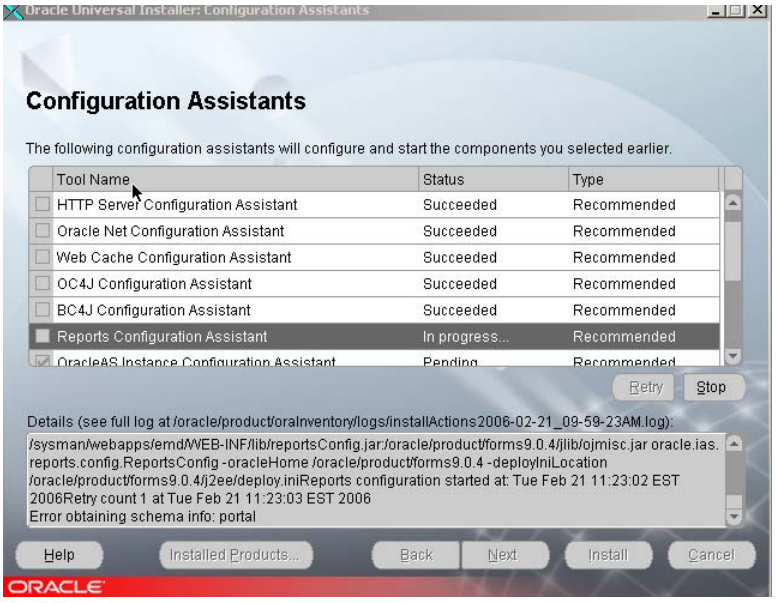
10. Run Root.sh

Setup Privileges Dialog Box

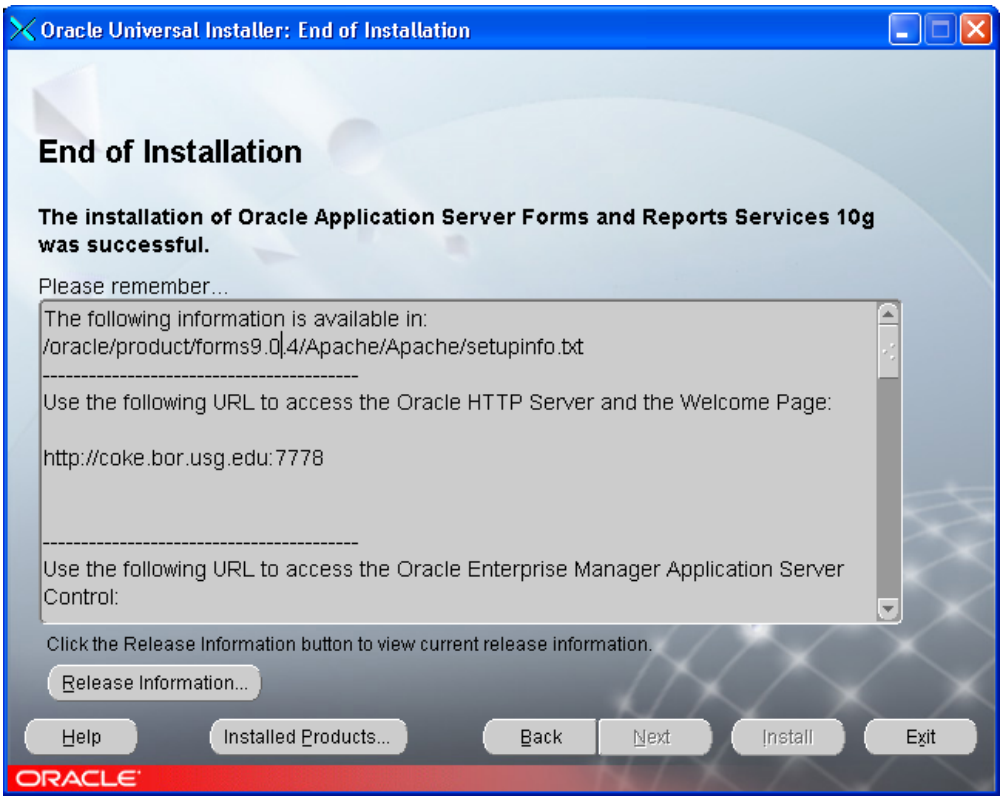


- Make sure that you have backup copies of your ORAENV and CORAENV files.
- Connect as the root in another terminal session and run the script specified on the screen named root.sh in the Oracle Home location.
- Choose **OK.**

11. Configuration Assistants



- Choose **NEXT**



- 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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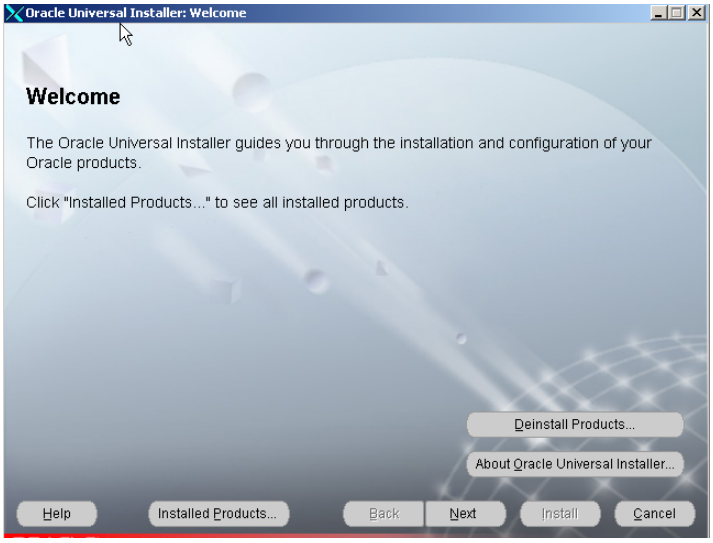
Applying Oracle Application Server Patchset 9.0.4.2

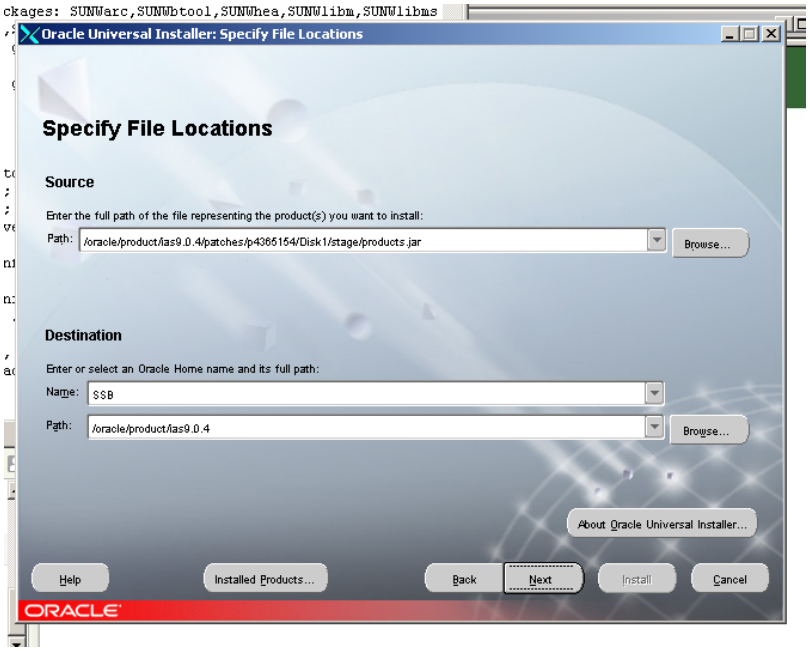
Section Overview	A patchset is required to upgrade Oracle Application Server 10g (9.0.4) to Version 9.0.4.2. As with 9.0.4, a second install must be done to upgrade both *$ORACLE_HOMES*.
Prerequisites	Oracle Application Server 10g Release 2 (9.0.4) Oracle Application Server Forms and Reports Services 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. Back up your Oracle software and inventory before applying this patch set, or before making any other changes to your existing Oracle software.
Time Estimate	1 hours
1. Verify Environment Variables	Verify that the following environment variables are set correctly before attempting to install the patchset. **HPUX** DISPLAY ORACLE_HOME ORACLE_SID ORA_NLS33 ORACLE_BASE TMPDIR ** TMP ** TEMP PATH SHLIB_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: **`TMP setenv TMP /u01/app/oracle/tmp`** Example: **`TMPDIR setenv TMPDIR /u01/app/oracle/tmp`**

2. Download the Patch Files	• Start the ftp session from your staging directory.
	• Connect to ftp.usg.edu using your institution's ID and password.
	• **HP-UX.**
	  ○ Navigate to the banner/prod/oracle/hpux11i/OAS10g directory.
	  ○ Download the following zip file: p4365154_9042_HP64.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. Start Oracle Installer	Start the Oracle Installer. Example: **% cd stage-directory/Disk1** **% runInstaller**
5. Welcome Screen	**Welcome Screen**  • Choose **NEXT**

6. Establish File Locations

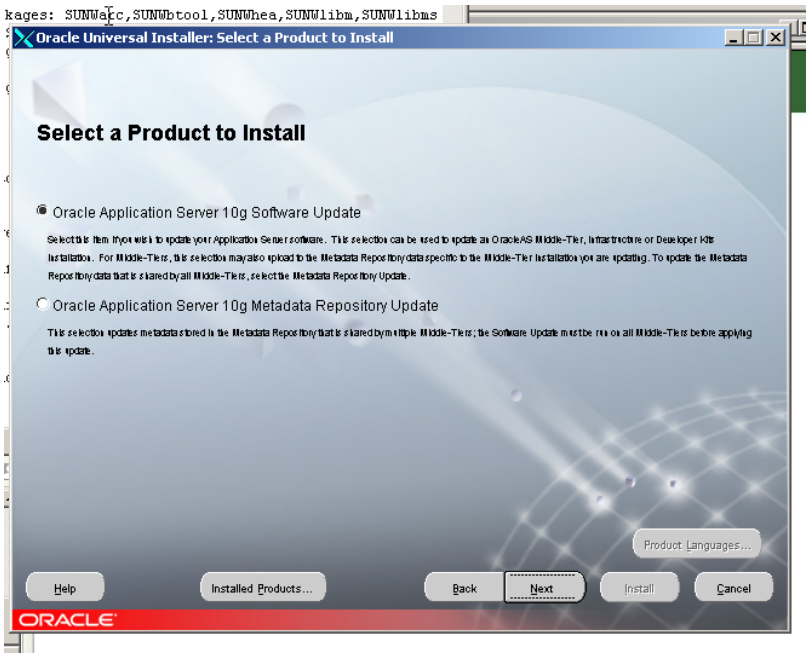
File Locations Screen



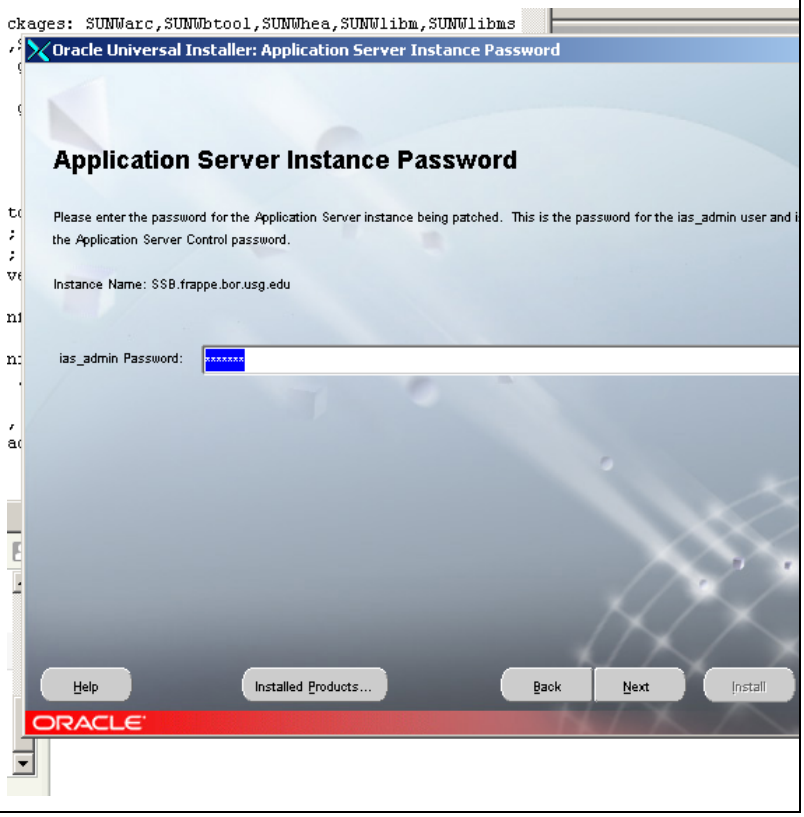
- Click the **BROWSE** button for the Source entry field and navigate to the stage directory where you unpacked the patchset tar file.
- Select the products.jar file. Click the **NEXT** button.
- The products file will be read and the installer will load the product definitions. The products to be loaded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

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

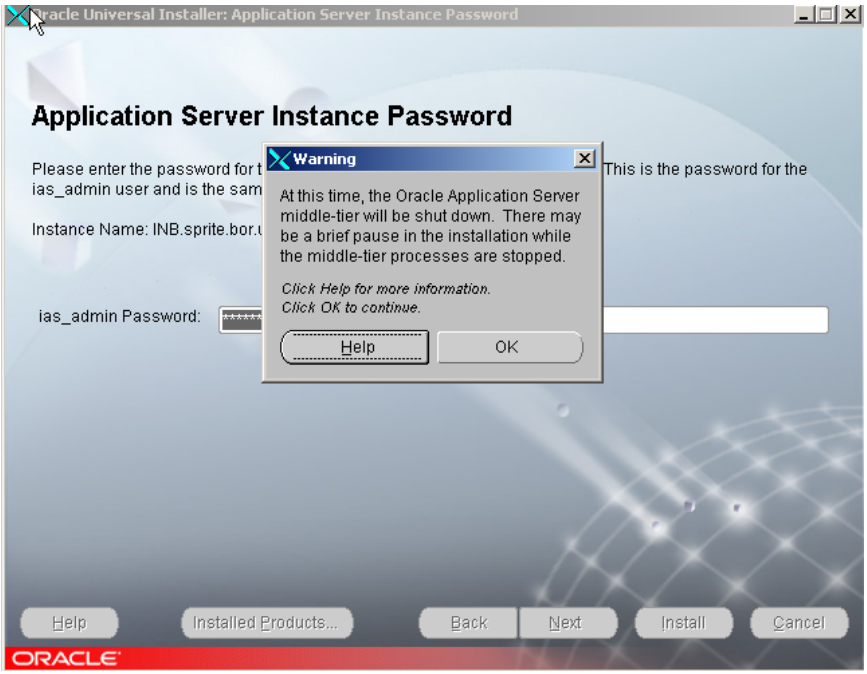
7. Select a Product to Install



- Select a product to install: **Oracle Application Server 10g Software Update. Choose Next**
- KEY IN YOUR IAS_ADMIN PASSORD. **CHOOSE NEXT**

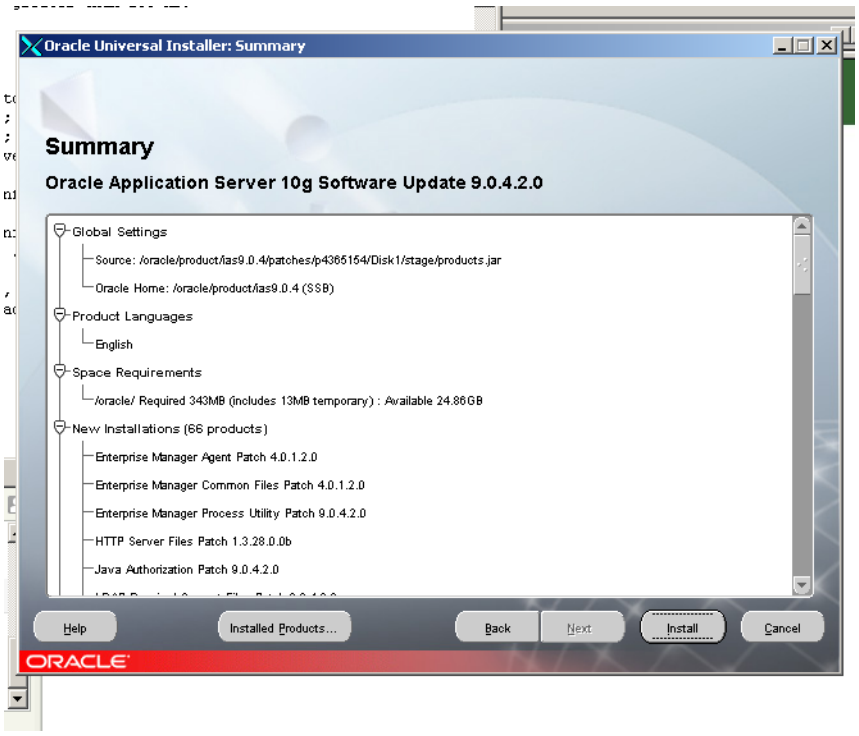


8. Warning



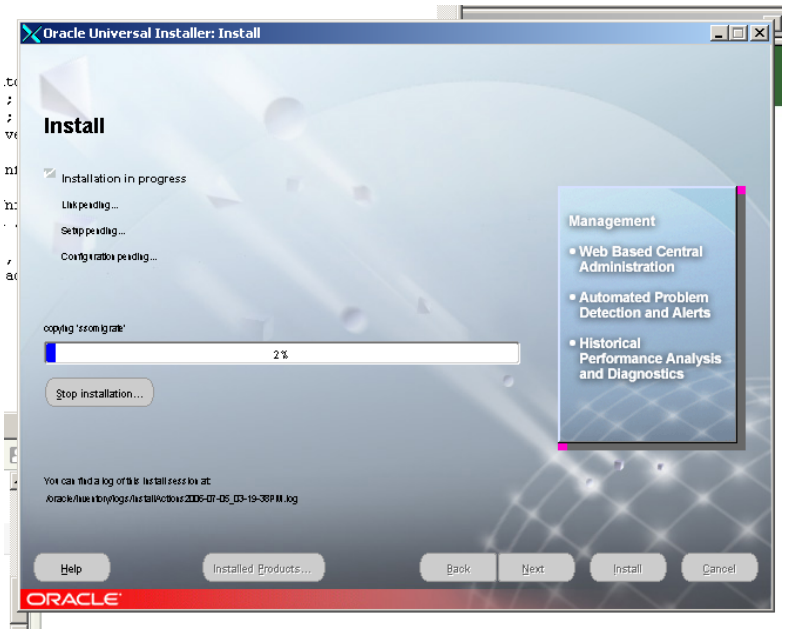
- **Notice that if application is up it will shutdown.**

9. Summary

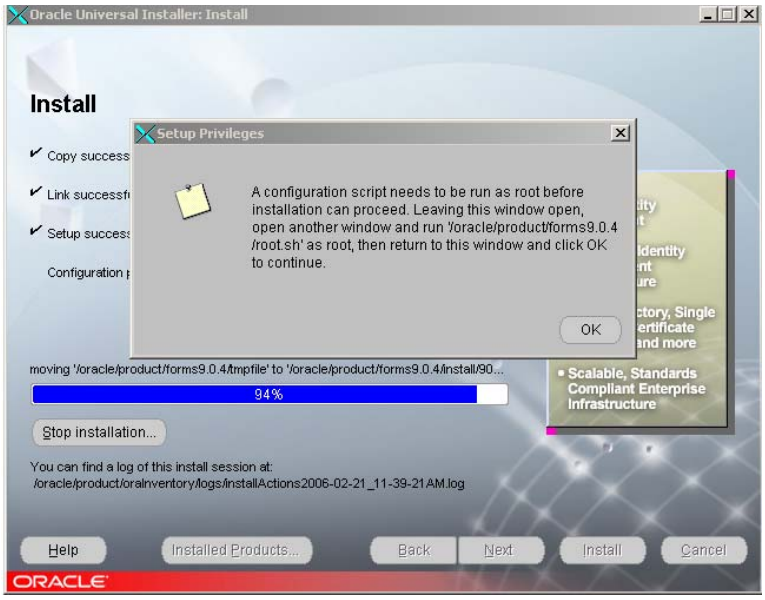


- Review the summary of the installation to make sure you have selected the correct requirements
- Choose **INSTALL.**

10. Installing root.sh

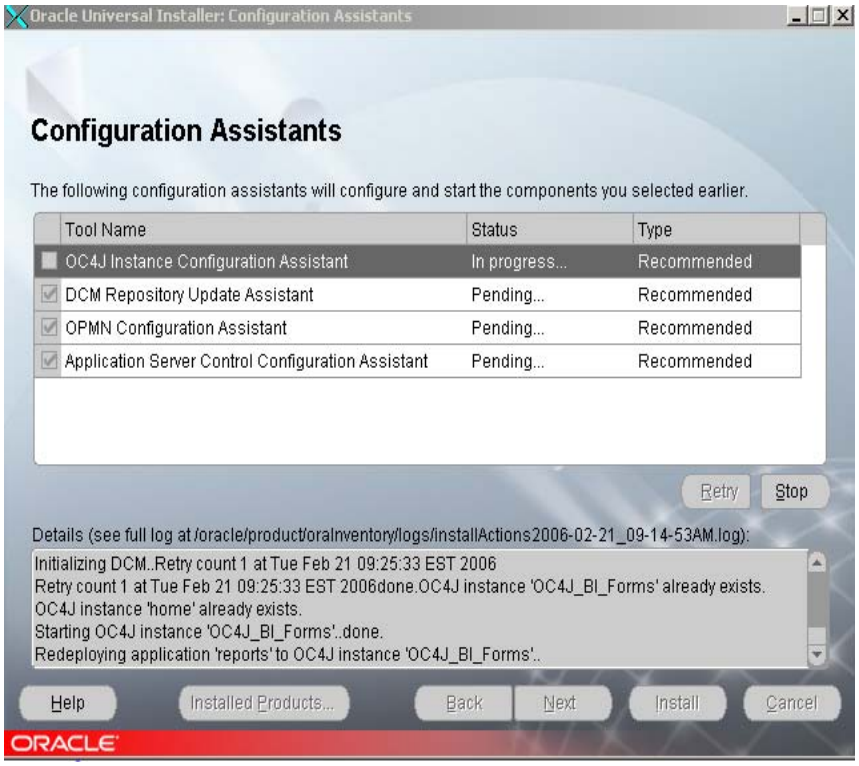


11. Installing root.sh (cont'd)



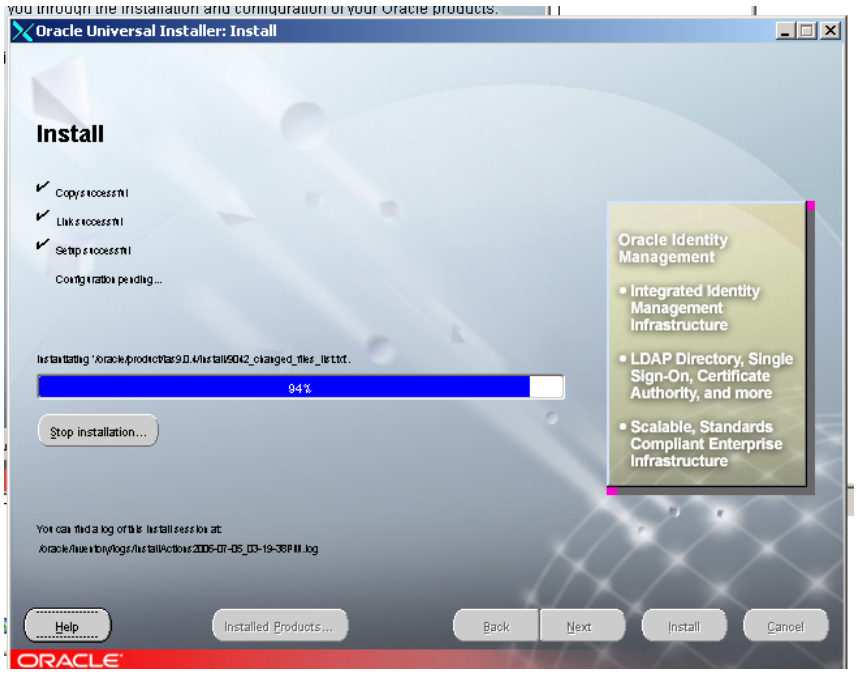
- Make sure that you have backup copies of your ORAENV and CORAENV files.
- Connect as the root in another terminal session and run the script specified on the screen named *root.sh* in the Oracle Home location.
- Choose OKAY

12. Configuration Assistants



- Choose **NEXT.**

13. Set Environment Variables



- Choose **EXIT**

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

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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: $ > sqlplus 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.