Oracle® Application Server

Quick Installation Guide

10g Release 3 (10.1.3) for HP-UX PA RISC (64-Bit)

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Oracle Application Server Quick Installation Guide 10g Release 3 (10.1.3) for HP-UX PA RISC (64-Bit) B28067-01

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Introduction

This guide describes how to install the following Oracle Application Server installation types:

- Basic Installation
- Advanced Installation: Integrated Web Server, J2EE Server and **Process Management**

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3 Installation Types Covered in this Guide

This guide is intended for users who want to install an Integrated Web Server, J2EE Server and Process Management in a single Oracle home. This install type provides the following components:

- Oracle HTTP Server This is the Web server component of Oracle Application Server.
- Oracle Containers for I2EE

This component provides a complete Java 2 Enterprise Edition (J2EE) environment for developing Java applications.

- Oracle Enterprise Manager 10g Application Server Control
 This component is used for Web-based management of Oracle Application Server.
- Oracle Process Manager and Notification Server

Integrated Web Server, J2EE Server and Process Management can be installed using the following install modes:

- Basic Installation: The basic (one-click) installation prompts you with questions on the initial installation screen, and then it proceeds to install the product without any further user interaction. The default values for all the components are used.
- Advanced Installation: The advanced installation provides you with a great degree of customization and flexibility, which enables installation of additional languages, port configuration options, and cluster configuration.

If you want more complex topologies, read the *Oracle Application Server Installation Guide* for complete installation instructions.

Before installing Oracle Application Server, you should read the Oracle Application Server Release Notes for the latest information.

4 Requirements

Check that your computer meets the minimum requirements:

- Section 4.1, "Check System Requirements"
- Section 4.2, "Check Software Requirements"
- Section 4.3, "Check Kernel Parameters"
- Section 4.4, "Create an Operating System Group for the Inventory Directory"
- Section 4.5, "Create an Operating System User"
- Section 4.6, "Check Environment Variables"

4.1 Check System Requirements

Your computer must meet the following requirements.

Operating Systems Supported

HP-UX 11i (11.11 or 11.23) PA-RISC or later

Other System Requirements

The following table shows other system requirements.

Table 1 Minimum System Requirements

	Minimum System Requirement
Memory	512 MB
Disk space	1.72 GB
Space in /tmp directory	400 MB
Swap space	1.5 GB

Complete the following steps to check these requirements:

 To determine the physical RAM size, enter the following command:

2. To determine the amount of free disk space, enter the following command:

Replace *dir* with the Oracle home directory or with the parent directory if the Oracle home directory does not exist yet. For example, if you plan to install Oracle Application Server in /opt/oracle/OracleAS, you can replace dir with /opt/oracle or /opt/oracle/OracleAS.

- 3. To determine the amount of available swap space, enter the following command:
 - # /usr/sbin/swapinfo -a

If necessary, see your operating system documentation for information on how to configure additional swap space.

4.2 Check Software Requirements

Check that the following software are installed on the system:

- Quality Pack for 11.11 HP-UX 11i (11.11 or 11.23) PA-RISC or higher
- Patches for 11.11(or higher versions)
 - BUNDLE11i B.11.23.0409.3 Required Patch Bundle for HP-UX 11i v2 (B.11.23), September 2004

- PHKL 29198 s700 800 11.11 Psets Enablement Patch: top(1)
- PHSS_28871 s700_800 11.11 ld(1) and linker tools cumulative patch
- PHSS_28880 s700_800 11.11 HP aC++ -AA runtime libraries (aCC A.03.50)
- PHCO 29960 s700 800 11.11 Pthread enhancement and fixes

The following patches are required by JDK 1.4.2.05/1.5.0.02 or higher. JDK 1.5.0.02 is installed with this release. Refer to the HP Support site for a list of all JDK patches.

- PHKL_25842 s700_800 11.11 Thread Abort syscall
- PHKL_25993 s700_800 11.11 thread nostop for NFS, rlimit, Ufalloc fix
- PHKL 25994 s700 800 11.11 detach; NOSTOP, Abrt, Psets; slpq1; FSS; getlwp
- PHKL_25995 s700_800 11.11 ufalloc; VxFS3.5; SPP fragmentation;AIO;EVP
- PHKL 26468 s700 800 11.11 vPar, callout, abstime, shared sync perf

- PHKL_28489 s700_800 11.11 copyin EFAULT, LDCD access type
- PHNE_29887 s700_800 11.11 cumulative ARPA Transport patch

The following patches are required if ANSI C and C++ are installed on the system:

- PHSS_26792 s700_800 11.X ANSI C compiler B.11.11.04 cumulative patch
- PHSS_26793 s700_800 11.X +O4/PBO Compiler B.11.11.04 cumulative patch
- PHSS 31849 : s700_800 11.23 linker + fdp cumulative patch
- PHSS _31852 : s700_800 11.23 aC++ Runtime (IA: A.06.05, PA: A.03.65)
- PHSS_32511 : s700_800 11.23 HP aC++ Compiler (A.03.63)
- PHSS_32512 : s700_800 11.23 ANSI C compiler B.11.11.12 cumulative patch
- PHSS 32513 : s700 800 11.23 +O4/PBO Compiler B.11.11.12 cumulative patch

Following patch is required if ServiceGuard is installed on the system:

- PHSS_32740: s700_800 11.23 Serviceguard A.11.16.00

To ensure that the system meets these requirements, follow these steps:

 To determine which version of HP-UX is installed, enter the following command:

uname -a

```
HP-UX hostname B.11.11 U 9000/800 109444686 unlimited-user license
```

In this example, the version of HP-UX 11i is 11.11.

To determine whether the Quality Pack is installed, enter the following command:

```
# /usr/sbin/swlist | grep QPK
```

If the quality pack is not installed, download it from the following Web site and install it:

```
http://www.software.hp.com/SUPPORT_
PLUS/qpk.html
```

3. To determine whether a bundle or product is installed, enter the following command:

```
# /usr/sbin/swlist -l product | more
```

If a required product is not installed, you must install it. See your operating system or software documentation for information on installing products.

4. To determine whether a patch is installed, enter a command similar to the following:

```
# /usr/sbin/swlist -l patch | grep PHKL_29198
```

Alternatively, to list all installed patches, enter the following command:

```
# /usr/sbin/swlist -l patch | more
```

If a required patch is not installed, download it from the following URL and install it:

```
http://itresourcecenter.hp.com
```

4.3 Check Kernel Parameters

The computers on which you plan to perform the installation require their kernel parameters to be set to the minimum values.

Complete the following tasks to set the kernel parameters for Oracle AS Web Cache:

- 1. Start System Administration Manager (SAM) as the root user:
 - # /usr/sbin/sam
- 2. Choose the Kernel Configuration area, then choose the Configurable Parameters area.
- Check the value for maxfiles lim is at least 65536. If necessary, modify that value. See the SAM online help for more information on completing this step.
- Exit from SAM.
- **5.** If you modified the value, restart the system:
 - # /sbin/shut.down -r now

4.4 Create an Operating System Group for the Inventory Directory

If this is the first Oracle product to be installed on the computer, create an operating system group for the "inventory" directory. The installer creates files in the inventory directory to keep track of the Oracle products that are installed on the computer.

This guide uses the name oinstall for this group.

To create a local operating system group, oinstall, enter the following command:

/usr/sbin/groupadd oinstall

In Section 4.5, "Create an Operating System User", you will create an operating system user, and set this group to be the user's primary group.

By having a separate group for the inventory directory, you allow different users to install Oracle products on the computer. Users need write permission for the inventory directory. They can achieve this by belonging to the oinstall group.

The default name of the inventory directory is oraInventory.

If you are unsure if there is already an inventory directory on the computer, look in the oraInst.loc file. This file lists the location of the inventory directory and the group who owns it. If the file does not exist, the computer does not have Oracle products installed on it.

4.5 Create an Operating System User

Create an operating system user to install and upgrade Oracle products. This guide refers to this user as the oracle user.

How to Create a User

To create the oracle operating system user as part of the oinstall group:,

- 1. Enter the following command as the root user:
 - # /usr/sbin/useradd -g oinstall -G dba[,oper] oracle

In this command:

- The -g option specifies the primary group, which must be the Oracle Inventory group, for example oinstall
- The -G option specifies the secondary groups, which must include the OSDBA group and if required, the OSOPER group, for example dba or dba, oper

2. Set the password for the oracle user by entering the following command and follow the instructions on screen:

passwd oracle

For more information about operating system users and groups, see your operating system documentation or contact your system administrator

4.6 Check Environment Variables

The operating system user who will be installing Oracle Application Server needs to set (or unset) the following environment variables.

Table 2 Environment Variables

Environment Variable	Set or Unset
DISPLAY	Set it to the monitor where you want to the installer window to appear.
ORACLE_HOME	Must not be set.
ORACLE_SID	Must not be set.

Table 2 (Cont.) Environment Variables

Environment Variable	Set or Unset
TNS_ADMIN	Must not be set.
PATH, CLASSPATH, and Shared Library Path	Must not contain references to directories in any Oracle home directories.
TMP and TMPDIR	Optional. If unset, defaults to /tmp.

4.6.1 Environment Variable Tips This section describes some things to look out for when setting environment variables:

- If you set environment variables in the .profile file, they
 might not be read. To ensure environment variables are set to
 the correct values, check their values in the shell where you
 will be running the installer.
- To check the value of environment variables, use the env command. This displays all the currently defined environment variables and their values.

% env

 If you use the su command to switch users (for example, switching from the root user to the oracle user), check the environment variables when you are the new user because the environment variables might not be passed to the new user. This can happen even if you run su with the - parameter (su - user).

```
# /* root user */
# su - oracle
% env
```

5 Starting the Installer

To start the installer:

- 1. Log in to the computer as a user who is a member of the Administrators group.
- 2. Insert the disk:

CD-ROM: Insert Oracle Application Server Disk 1.

DVD: Insert the Oracle Application Server DVD.

3. If your computer does not mount CD-ROMs or DVDs automatically, you need to set the mount point manually. See Section 5.1, "Setting the Mount Point for the CD-ROM or

DVD-ROM" for steps on mounting the CD-ROM or DVD-ROM manually.

- 4. Log in as the oracle user.
- **5.** Start up the installer:

Note:

- Be sure you are not logged in as the root user when you start the Oracle Universal Installer. The installer gives an error message if you try to run it as the root user.
- Do not start the installation inside the mount_point directory. If you do, then you may not be able to eject the installation disk. The cd command below changes your current directory to your home directory.

CD-ROM:

```
prompt> cd
prompt> mount point/10.1.3disk1/runInstaller
```

DVD:

```
prompt> cd
prompt> mount point/application server/runInstaller
```

This launches Oracle Universal Installer, through which you can install Oracle Application Server.

5.1 Setting the Mount Point for the CD-ROM or DVD-ROM

The Oracle Application Server CD-ROMs are in RockRidge format. The DVD-ROM is in DVD-ROM format.

To mount the first disc, follow these steps:

- 1. Insert Oracle Application Server disc 1 into the CD-ROM or DVD.
- 2. Create the /SD_CDROM directory if it does not already exist:
 - # /usr/bin/mkdir /SD CDROM
- Enter a command similar to the following: 3.
 - # /usr/sbin/mount -F cdfs -o rr /dev/dsk/cxdytz /SD CDROM

In the preceding example, /SD_CDROM is the disk mount point directory and /dev/dsk/cxdytz is the device name for the disk device, for example /dev/dsk/c0d2t0.

6 Basic Installation

This section describes how to install Integrated Web Server, J2EE Server and Process Management using a basic installation. To install using a basic installation:

- Start up the installer. See Section 5, "Starting the Installer" for details.
- 2. Oracle Application Server 10g 10.1.3.0.0 screen

Installation Directory: Enter the directory where you want install Oracle Application Server.

Example:

/scratch/oracle/product/10.1.3/OracleAS

Basic Installation Mode: Select this option.

Installation Type: You cannot change the installation type in a basic installation.

Instance Name: The instance name identifies this Oracle Application Server instance. If you have more than one Oracle

Application Server instance on the same host, the instances must have unique names.

Example: appserver

Administration Username: The administration username for Oracle Application Server instances is set to oc4jadmin and cannot be changed. To manage Oracle Application Server instances using Oracle Enterprise Manager, log in as the oc4 iadmin user.

Administration Password and Confirm Password: Enter the password for the oc4jadmin user.

Example: welcome1

Click Install.

- If this is the first Oracle product to be installed on this computer, the installer displays these additional screens:
 - a. Specify Inventory Directory and Credentials screen

Enter the full path of the inventory directory: Enter a full path to the inventory directory. This directory is different from the Oracle home directory for the product files.

Example: /opt/oracle/oraInventory

Specify operating system group name: Select the operating system group that will have write permission for the inventory directory.

Example: oinstall

Click Next.

b. Run orainstRoot.sh dialog

When prompted, run the orainstRoot.sh script as the root user in a different shell. The script is located in the inventory directory.

After running the script, click **Continue**.

4. Run root.sh dialog

Note: do not run this script until you see the dialog.

In a different window, log in as the root user and run the root .sh script. The script is located in this instance's Oracle home directory.

After you have run the root.sh script, click OK.

5. Configuration Assistants screen

This screen displays the progress of configuration assistants, which configure Oracle Application Server components.

End of Installation screen 6.

Click **Exit** to quit the installer.

7 Advanced Installation

This section describes how to install Integrated Web Server, J2EE Server and Process Management using an advanced installation. To install using an advanced installation:

- 1. Start up the installer. See Section 5, "Starting the Installer" for details
- Oracle Application Server 10g 10.1.3.0.0 screen

Installation Directory: Enter the directory where you want install Oracle Application Server.

Example:

/scratch/oracle/product/10.1.3/OracleAS

Advanced Installation Mode: Select this option.

Click Next.

- **3.** If this is the first Oracle product to be installed on this computer, the installer displays these additional screens:
 - a. Specify Inventory Directory and Credentials screen

Enter the full path of the inventory directory: Enter a full path to the inventory directory. This directory is different from the Oracle home directory for the product files.

Example: /opt/oracle/oraInventory

Specify operating system group name: Select the operating system group that will have write permission for the inventory directory.

Example: oinstall

Click Next.

b. Run orainstRoot.sh dialog

When prompted, run the orainstRoot.sh script as the root user in a different shell. The script is located in the inventory directory.

After running the script, click Continue.

4. Select Installation Type screen

Integrated Web Server, J2EE Server and Process Management: Select this option.

Click Next.

5. Specify Port Configuration Options screen

Select Automatic.

Click Next

6. Administration Instance Settings screen

Select Configure this as an Administration OC4J instance.

Click Next.

7. Administration Settings screen

AS Instance Name: The instance name identifies this Oracle Application Server instance. If you have more than one Oracle Application Server instance on the same host, the instances must have unique names.

Example: appserver

Default OC4I Instance Administrator Account Username:

The administration username for Oracle Application Server instances is set to oc4jadmin and cannot be changed. To manage Oracle Application Server instances using Oracle Enterprise Manager, log in as the oc4jadmin user.

Administrator Account Password and Confirm Adminis**trator Account Password**: Enter the password for the oc4 iadmin user.

Example: welcome1

OC4J Instance Name: The OC4J instance name identifies the default OC4J instance created by the installer.

Example: home

Click Next.

8. Cluster Topology Configuration screen

Deselect Configure this instance to be part of an Oracle Application Server cluster topology.

Click Next.

9. Summary screen

Verify your selections and click **Install**. The installer now installs the files.

10. Run root.sh dialog

Note: do not run this script until you see the dialog.

In a different window, log in as the root user and run the root . sh script. The script is located in this instance's Oracle home directory.

After you have run the root. sh script, click OK.

11. Configuration Assistants screen

This screen displays the progress of configuration assistants, which configure Oracle Application Server components.

12. End of Installation screen

Click **Exit** to quit the installer.

8 Accessing the Welcome Page

After installation, access the Oracle Application Server Welcome page to verify that the installation was successful. The URL for the Welcome page is:

```
http://hostname.domainname:http port
```

You can locate the URL for accessing the Welcome Page on the End of Installation Screen text, which is stored in the following file:

```
ORACLE HOME/install/readme.txt
```

The Welcome page provides links to these useful pages:

New features in Oracle Application Server 10g Release 3 (10.1.3)

- Oracle Enterprise Manager Application Server Control ("Application Server Control"), which is a browser-based administrative tool
- Release Notes
- Ouick Start
- Demos

9 Additional Resources

For more information, see these Oracle resources:

- Oracle Application Server Documentation Library CD-ROM
- Oracle Application Server platform-specific documentation on Oracle Application Server Disk 1 CD-ROM

Printed documentation is available for sale in the Oracle Store at http://oraclestore.oracle.com.

You can also contact your Oracle representative to purchase printed documentation.

To download free release notes, installation documentation, white papers, or other collateral, visit Oracle Technology Network (OTN). You must register online before using OTN; registration is

free and can be done at

http://www.oracle.com/technology/membership/.

If you already have a username and password for OTN, then you can go directly to the documentation section of OTN at http://www.oracle.com/technology/documentation.

9.1 Oracle Support Services

If you purchased Oracle Product Support, you can call Oracle Support Services for assistance. Oracle Support Services include phone assistance, version updates and access to our service offerings. You have access to phone support 24 hours a day, 7 days a week. In the U.S.A., you can call Product Support at 1-800-223-1711

Make sure you have your CSI (CPU Support Identifier) number ready when you call. Keep the CSI number for your records, because it is your key to Oracle Support Services. The Oracle Store sends the CSI number to you in an e-mail alert when it processes your order. If you do not have your CSI number and you are in the U.S.A., you can look up your CSI number by accessing our online Order Tracker which provides detailed order information. Go to the Oracle Store and click on Order Tracker located above the top navigation bar.

For Oracle Support Services locations outside the U.S.A., call your local support center for information on how to access support. To find the local support center in your country, visit the Support Web Center at http://www.oracle.com/support.

At the Support Web Center you will find information on Oracle Support Services, such as:

- contact information
- instructions on how to access electronic services
- helpful Web sites
- Support Resources
- Oracle Support Portfolio
- Oracle Support Services news

With Oracle Product Support, you have round-the-clock access to Oracle MetaLink, Oracle Support Services premier Web support offering. Oracle MetaLink offers you access to installation assistance, product documentation, and a technical solution knowledge base.

It has technical forums, where you can post questions about your Oracle products and receive answers from Oracle Technical

Support Analysts and other Oracle users. The questions and answers remain posted for the benefit of all users.

OracleMetaLink options include:

- Technical Assistance Request (TAR) access
- patch downloads
- bug database query access
- product life-cycle information

You can access OracleMetaLink at http://metalink.oracle.com.

9.2 Version Updates

If you do not have a currently supported license, you can purchase the most recent version of an Oracle product from the Oracle Store at:

```
http://oraclestore.oracle.com
```

If you do have a currently supported license, you can place non-urgent requests for version update shipments through the iTAR feature on OracleMetaLink. You will need to log the iTAR type as a U.S. Client Relations/Non-Technical Request.

You can also request Version Update shipments in the U.S.A. by calling Client Relations. When requesting a Version Update, provide the following information to the Client Relations Analyst:

- CSI number
- contact information
- platform
- product name
- shipping address
- version number of the product

Outside the U.S.A., call your local Oracle Support Center.

9.3 Premium Services

For information on our Premium Services, including onsite support, OracleGOLD, remote services, and upgrade packages, visit the Support Web Center at

http://www.oracle.com/support

or call your Support Sales Representative in the U.S.A at 1-800-833-3536.

9.4 Quick Reference

Resource	Contact Information or Web Site
Purchase additional products, full-use licenses, version updates, and documentation in the U.S.A.	http://oraclestore.oracle.com
Access technical resources for developers	http://www.oracle.com/technology
Access installation documentation	http://www.oracle.com/technology/documentation
Access information about technical support	http://www.oracle.com/support
Locate local Oracle Support Centers outside the U.S.A.	http://www.oracle.com/support
Locate local Oracle offices outside the U.S.A	http://www.oracle.com/global
Call Client Relations in the U.S.A	1-800-223-1711
Speak with your sales representative in the U.S.A.	1-800-ORACLE-1

Resource	Contact Information or Web Site
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