

# Installing Oracle Database 10g Software

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# Objectives

**After completing this lesson, you should be able to do the following:**

- **Identify system requirements**
- **Use Optimal Flexible Architecture**
- **Install software with Oracle Universal Installer**

# System Requirements

## Hardware:

- 512 MB of physical random access memory (RAM)
- 1 GB of swap space (or twice the size of RAM)
- 400 MB of disk space in the temporary directory (/tmp or \Temp)
- 1.5 GB of disk space for the Oracle software
- 1.5 GB of disk space for the preconfigured database

Operating system: See documentation



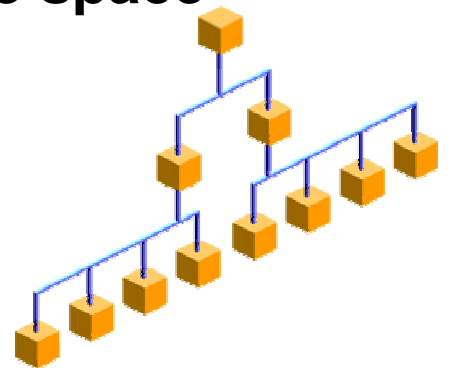
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# Optimal Flexible Architecture (OFA)

OFA is designed to:

- Organize large amounts of software
- Facilitate routine administrative tasks
- Facilitate switching between multiple Oracle databases
- Adequately manage and administer database growth
- Help eliminate fragmentation of free space



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# Using Optimal Flexible Architecture

## Naming mount points:

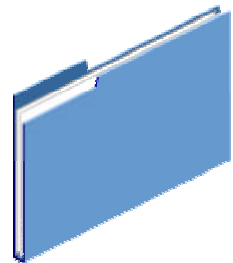
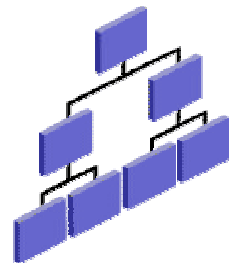
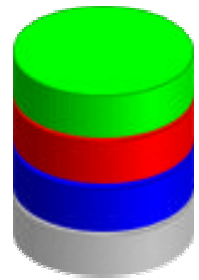
- `/u01`
- `/disk01`

## Naming directories:

- `/u01/app/oracle`
- `/u01/app/applmgr`

## Naming files:

- **Control files:** `controln.ctl`
- **Redo log files:** `redon.log`
- **Data files:** `tn.dbf`



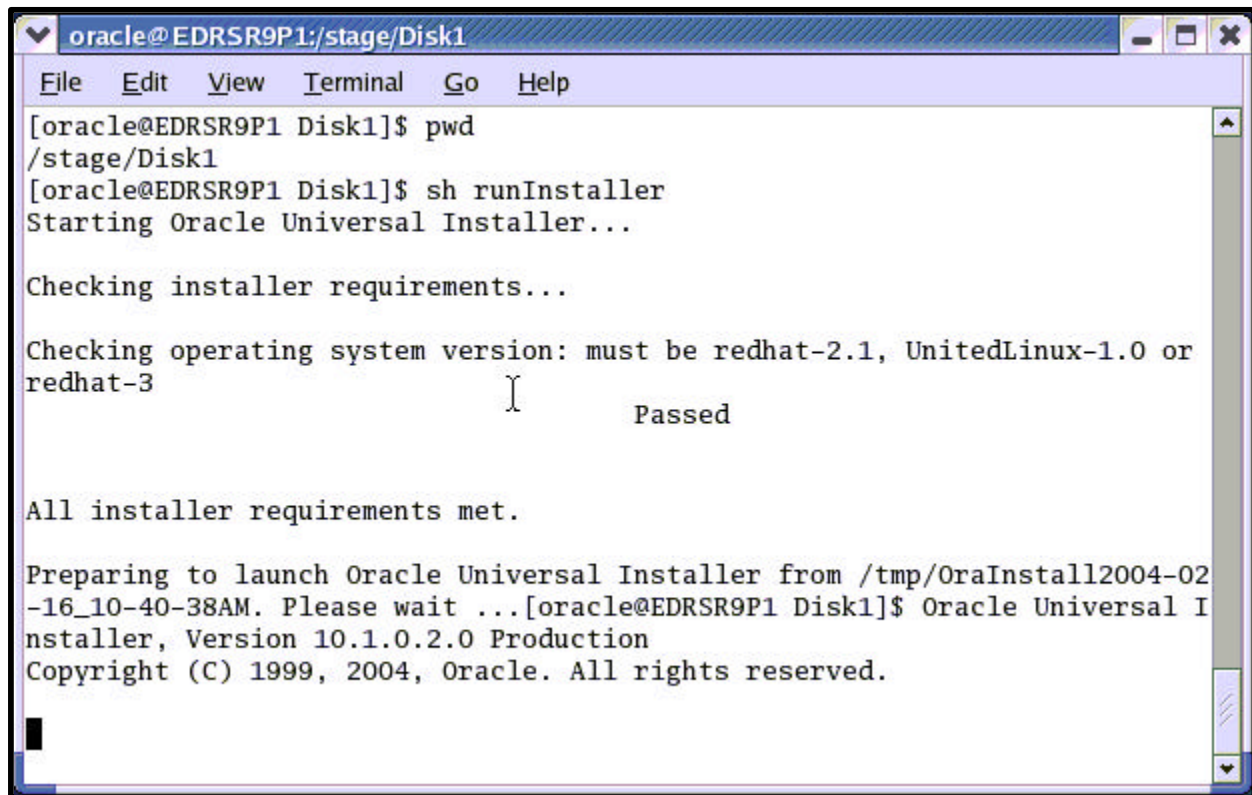
# Setting Environment Variables

- **ORACLE\_BASE:** The base of the Oracle directory structure for OFA
- **ORACLE\_HOME:** The directory containing the Oracle software
- **ORACLE\_SID:** The initial instance name (ORCL by default)
- **NLS\_LANG:** The language, territory and client character set settings



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# Preinstallation Checks

A terminal window titled 'oracle@EDRSR9P1:/stage/Disk1' with a menu bar (File, Edit, View, Terminal, Go, Help). The terminal shows the execution of 'pwd' and 'sh runInstaller'. It displays the 'Starting Oracle Universal Installer...' message, followed by 'Checking installer requirements...'. A specific check for 'operating system version' is shown as 'must be redhat-2.1, UnitedLinux-1.0 or redhat-3', with a vertical bar cursor and the word 'Passed' indicating success. The message 'All installer requirements met.' is displayed. Finally, it shows 'Preparing to launch Oracle Universal Installer from /tmp/OraInstall2004-02-16\_10-40-38AM. Please wait ...' followed by the prompt '[oracle@EDRSR9P1 Disk1]\$ Oracle Universal I' and the version 'nstaller, Version 10.1.0.2.0 Production'. The copyright notice 'Copyright (C) 1999, 2004, Oracle. All rights reserved.' is at the bottom.

```
oracle@EDRSR9P1:/stage/Disk1
File Edit View Terminal Go Help
[oracle@EDRSR9P1 Disk1]$ pwd
/stage/Disk1
[oracle@EDRSR9P1 Disk1]$ sh runInstaller
Starting Oracle Universal Installer...

Checking installer requirements...

Checking operating system version: must be redhat-2.1, UnitedLinux-1.0 or
redhat-3
|
Passed

All installer requirements met.

Preparing to launch Oracle Universal Installer from /tmp/OraInstall2004-02-
16_10-40-38AM. Please wait ...[oracle@EDRSR9P1 Disk1]$ Oracle Universal I
nstaller, Version 10.1.0.2.0 Production
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```

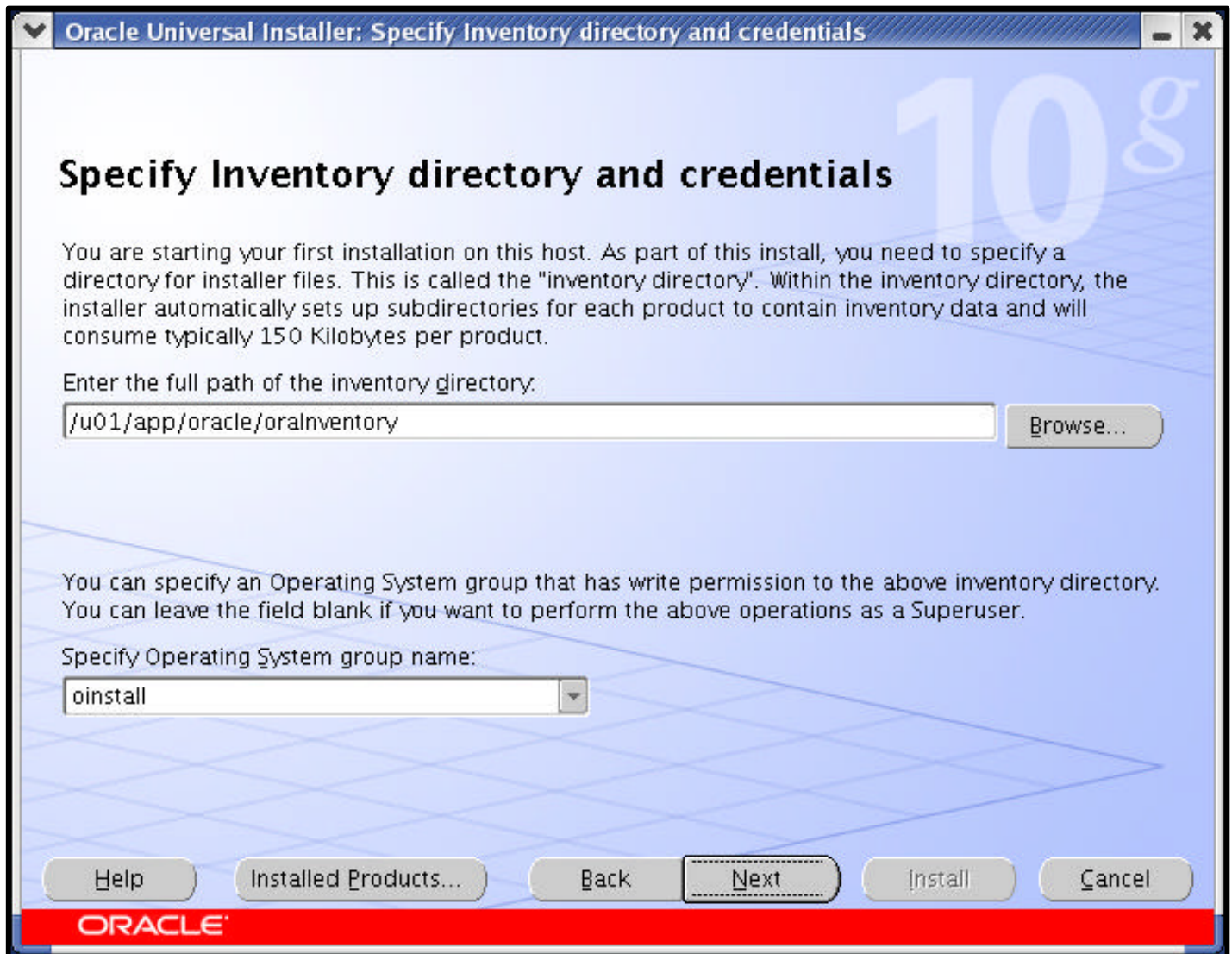
# Oracle Universal Installer



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# Inventory and UNIX Group Name



**Oracle Universal Installer: Specify Inventory directory and credentials**

## Specify Inventory directory and credentials

You are starting your first installation on this host. As part of this install, you need to specify a directory for installer files. This is called the "inventory directory". Within the inventory directory, the installer automatically sets up subdirectories for each product to contain inventory data and will consume typically 150 Kilobytes per product.

Enter the full path of the inventory directory:

You can specify an Operating System group that has write permission to the above inventory directory. You can leave the field blank if you want to perform the above operations as a Superuser.

Specify Operating System group name:

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# orainstRoot.sh



```
sh /u01/app/oracle/oraInventory/orainstRoot.sh  
reating the Oracle inventory pointer file (/etc/oraInst.loc)  
hanging groupname of /u01/app/oracle/oraInventory to  
install.
```

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# File Locations

**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:

**Destination**

Enter or select a name for the installation and the full path where you want to install the product.

Name:

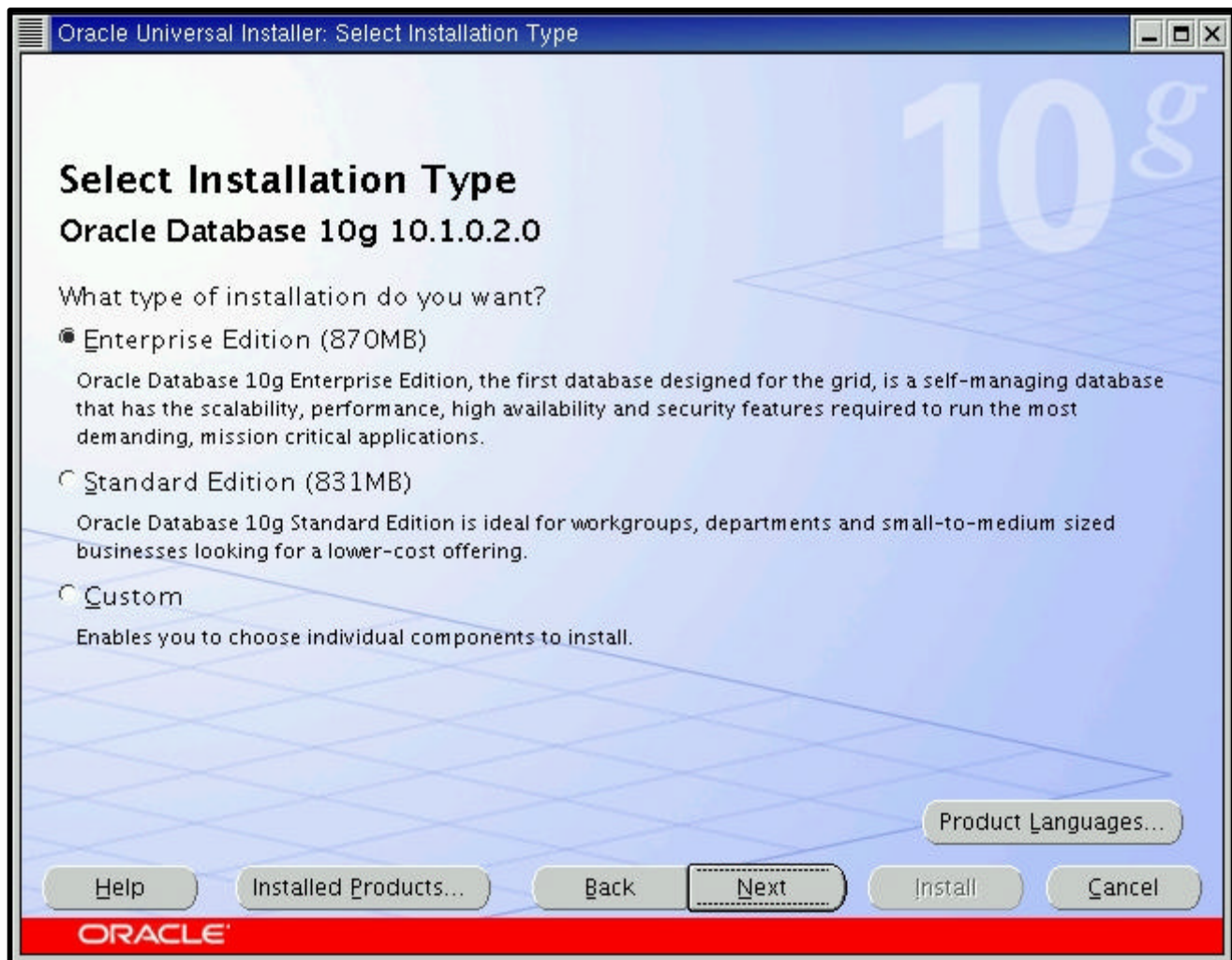
Path:

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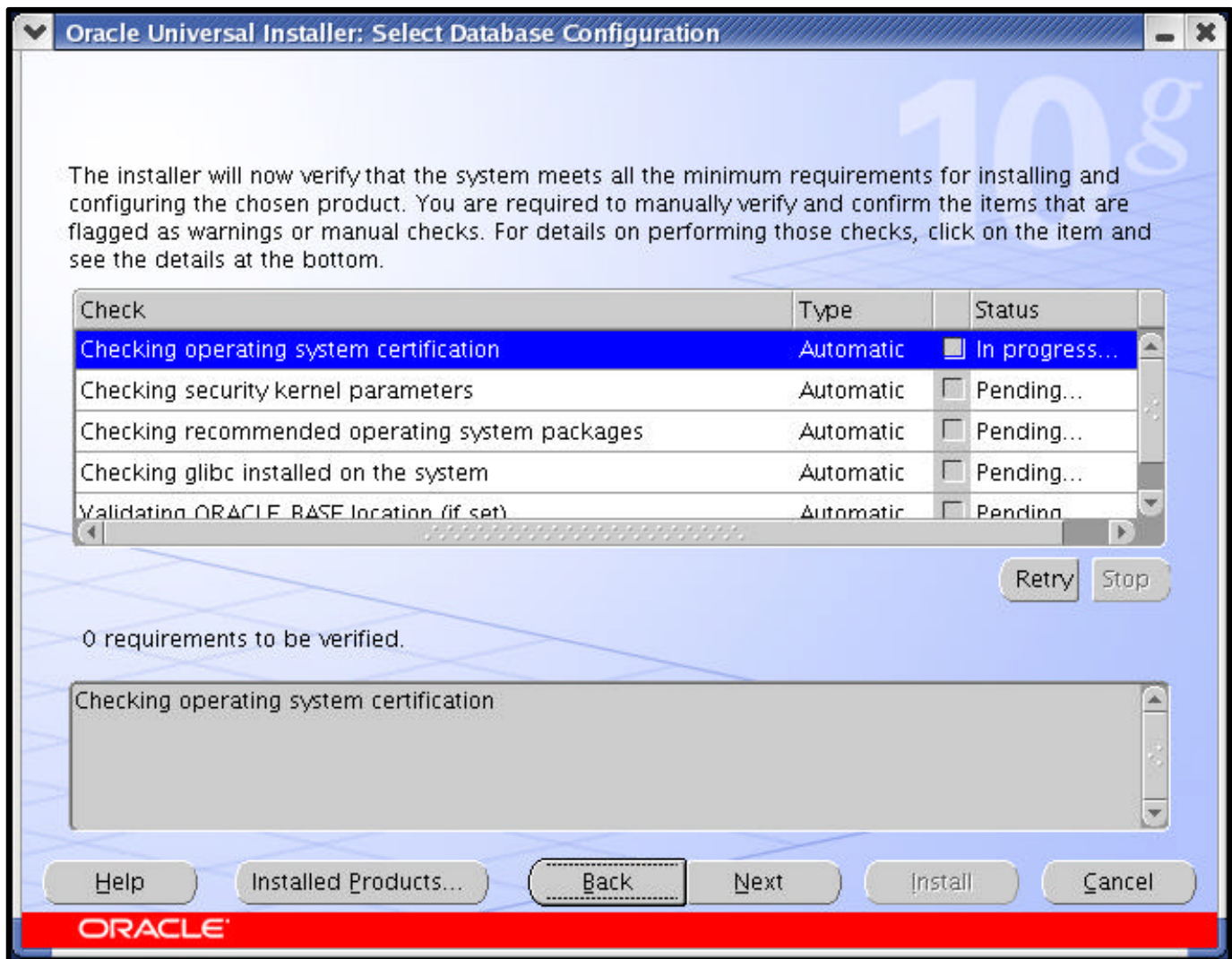
# Install Type



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# Prerequisite Checks

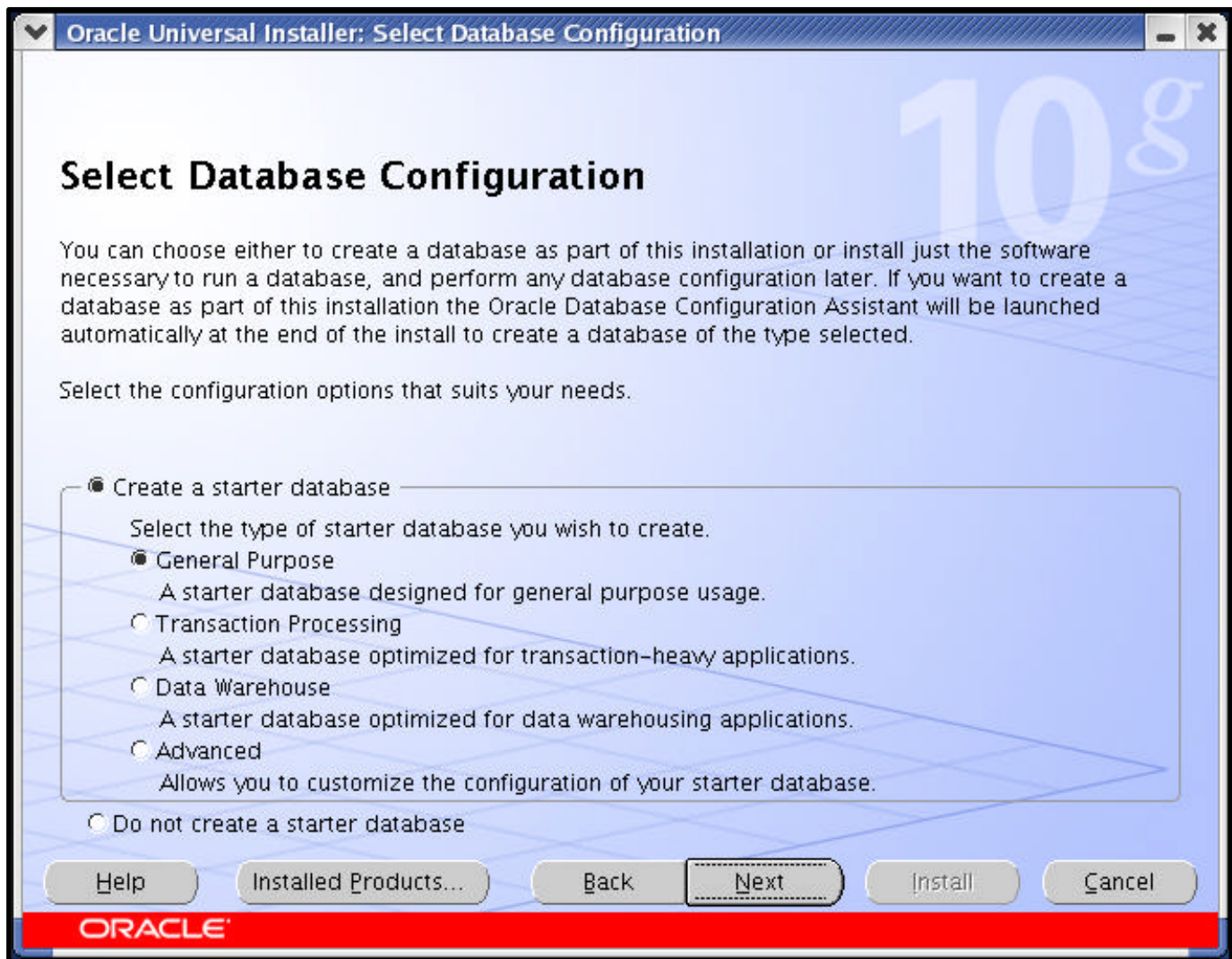


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# Starter Database



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# Configuration and Management

## Specify Database Configuration Options

### Database Naming

A Global Database Name, typically of the form "name.domain", uniquely identifies an Oracle database. In addition, each database is referenced by at least one Oracle System Identifier (SID). Specify the Global Database Name and SID for this database.

Global Database Name:

SID:

### Database Character Set

The database character set is determined based on the number of language groups that will be stored in your database. See "Help" for the definition of language groups. Select the character set that should be used in your database.

Select Database Character set:

### Database Examples

You can choose to create a starter database with or without sample schemas. Note that you can plug in the sample schemas to your existing starter database after creation. See "Help" for more details.

☒ Create database with sample schemas

☐ Use Grid Control for Database Management

Management Service:

☒ Use Database Control for Database Management

☐ Enable Email Notifications

Outgoing Mail (SMTP) Server:

Email Address:

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# File Storage and Backup Recovery

## Specify Database File Storage Option

Select the storage mechanism you would like to use for database creation.

☒ File System

Use the file system for database storage. For best database organization and performance, Oracle recommends installing database files and Oracle software on separate disks.

Specify Database file location:

☐ Automatic Storage Management (ASM)

Automatic Storage Management simplifies database storage administration and optimizes database layout for I/O performance.

☐ Raw Devices

Raw partitions can also provide the required shared storage for Real Application Clusters (RAC) databases. You will need to create one or more raw partitions and then provide a file that maps the raw partitions to the database files.

Specify Raw Devices mapping file:

☒ Do not enable Automated backups

☐ Enable Automated Backups

Recovery Area Storage

☒ File System

Use the file system for files related to backup and recovery of your database.

Recovery Area Location:

☐ Automatic Storage Management

Use Automatic Storage Management for files related to backup and recovery.

Backup Job Credentials

Specify the operating system credentials used by the backup job.

Username:

Password:

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# Passwords and Summary

☐ Use different passwords for these accounts

User Name	Enter Password	Confirm Password
SYS		
SYSTEM		
SYSMAN		
DBSNMP		

☒ Use the same password for all accounts

Enter Password:

## Summary

### Oracle Database 10g 10.1.0.2.0

#### Global Settings

- Source: /mnt/cdrom/stage/products.xml
- Oracle Home: /u01/app/oracle/product/10.1.0/db\_1 (OraDb10g\_home1)
- Installation Type: Enterprise Edition

#### Product Languages

- English

#### Space Requirements

- / Required 1.75 GB (includes 128MB temporary) : Available 26.32 GB

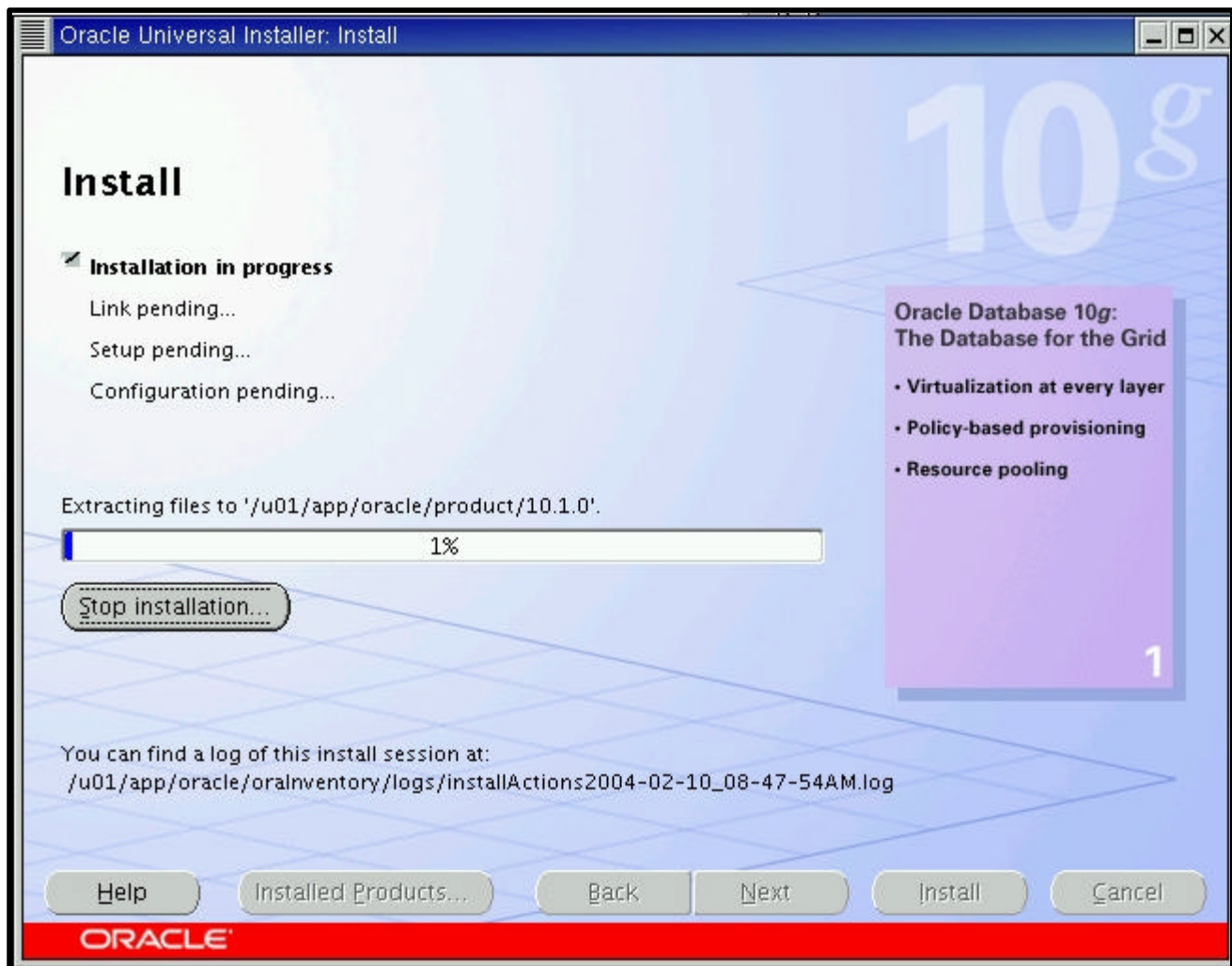
#### New Installations (148 products)

- Advanced Queueing (AQ) API 10.1.0.2.0
- Advanced Replication 10.1.0.2.0
- Agent Required Support Files 10.1.0.2.0
- Assistant Common Files 10.1.0.2.0
- Authentication and Encryption 10.1.0.2.0

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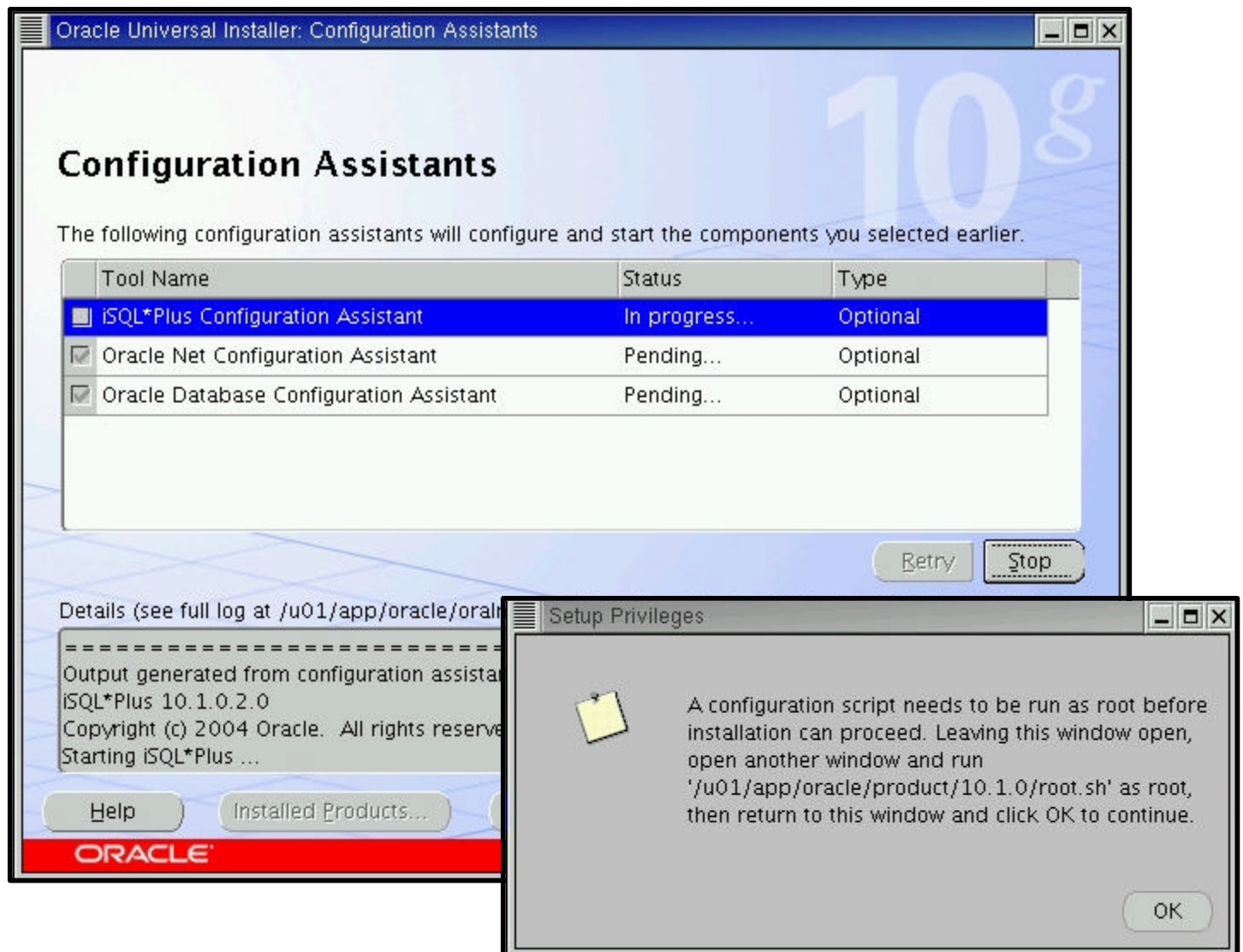
# Installation



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# Configuration Assistants



# Summary

**In this lesson, you should have learned how to:**

- **Identify system requirements**
- **Use Optimal Flexible Architecture**
- **Install software with Oracle Universal Installer**

# **Practice 2: Installing the Oracle Software**

**This practice exercise covers installing the Oracle software.**