

Oracle 9i Database Installation Steps

Oct 1, 2001
Lev Moltyaner

Pre-Installation Activities

- Size and purchase the hardware
 - Determine the operating system
 - Determine the size of hard disks
 - Operating System and Oracle Software will require space
 - Estimate the total size of all database files (should be a rough estimate rounded up to the nearest Gig)
 - Consider a need for multiple database copies (Dev, Test, or QA)
 - Allocate space for on-line backups, exports, and archive logs
 - Determine the number of CPUs
 - Consider Oracle license cost (based on number of CPUs and their speed)
 - Determine amount of memory
 - Consider a need for multiple concurrent databases

- For the test install, Windows 2000 used 1.3 G, Oracle 9i used 1.7 G, and the seed database used 1 G for a total of 4 G
 - The standard database files required for any database take up almost 1G
 - System (330 M), undo (200 M), temporary (40 M), and redo (300 M) files

Installing Oracle 9i

- Run the Oracle Installer from the Oracle 9i Product CD
 - Following values were supplied during the installation for the test install
Oracle Home Name: OraHome90
Oracle Home Path: c:\oracle\ora90
Product to Install: Oracle9i Database 9.0.1
Type of Installation: Oracle Standard Edition
Select database: General Purpose (installs a database)
Other options: Transaction Processing, Software Only
Database Name: real
Oracle System Identifier (SID): real
Directory for Database Files: c:\oracle\oradata
Character Set: Use the default character set

- Oracle 9i Database is shipped on 3 CD, you will be prompted for the next 2 CDs
 - For the test install, it took 30 minutes to install the Oracle software

Creating a Database

- The installer automatically invokes the Oracle Database Configuration Assistant to create the seed database
 - Assuming Software Only option was not specified
 - For this test, it took 15 minutes to create and start the database

- Upon completing the database creation, the assistant prompts the user to change the passwords for system accounts
 - Defaults: SYS = change_on_install, SYSTEM = manager

Installing Oracle 9i Documentation

- Oracle Documentation library includes 2 CDs:
 - Oracle9i Online Documentation
 - Used to browse the documentation from a CD or copy files directly to a local system
 - Oracle9i Online Documentation - Installation CD
 - Used to install the documentation library by using the Oracle Installer
 - The contents of the library are the same on both CDs
- Documentation is available in HTML and PDF formats
 - For this test, it took 10 minutes to install the Documentation

Using Oracle 9i Documentation

- There are over 120 books in the documentation library
 - Use the Master Index or a specific book index to search for a specific topic
- The following books should be read by anyone planning to work with Oracle
 - Oracle9i Database Concepts
 - Oracle9i SQL Reference
 - PL/SQL User's Guide and Reference
- The following reference books will often be required
 - SQL*Plus User's Guide and Reference
 - SQL*Plus Quick Reference
 - Oracle9i Database Utilities
 - Oracle9i Database Error Messages
- The following books are also highly recommended for developers
 - Oracle9i Application Developer's Guide - Fundamentals
 - Oracle9i Application Developer's Guide – Large Objects (LOBs)
- The following books are also highly recommended for DBAs
 - Oracle9i Database Administrator's Guide
 - Backup and Recovery Concepts
- The following books will also serve as good references
 - Oracle9i Database Performance Guide and Reference
 - Oracle9i Database New Features
 - Oracle9i Supplied PL/SQL Packages and Types Reference
 - Oracle9i Database Reference
 - Oracle9i Database Performance Methods

Post-Installation Activities

- Review the installed files in the file system
c:\oracle
 - > admin
 - > orac (directories for log files)
 - > ora90
 - > doc (Oracle 9i Documentation Library)
 - > bin (Oracle executables such as SQL*Plus)
 - > database (parameter file and external password file)
 -
 - > oradata
 - orac (database files)
- Test the installation by logging into SQL*Plus as system/manager

Database Configuration Procedures

- Although not required, the following additional configuration steps are highly recommended
 - Create undo segments
 - Create additional tablespaces
 - Establish table storage standards and default storage definitions
 - Create user profiles and define user quotas
 - Create users and grant privileges
 - Define memory allocation
 - Set additional parameters in the parameter file
 - Configure the database control file and online redo logs to be maintained on multiple disks
 - Establish backup and recovery procedures
 - Enable archiving to ensure up to the minute recovery