Oracle Application Server 10g Quick Installation Guide

Presented by

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This presentation is based on:

**Oracle® Application Server 10g**

Quick Installation and Upgrade Guide

10g (9.0.4) for Solaris Operating System (SPARC)

Part No. B10936-01

December 2003
Types of Install

- Java Developer
- Portal and Wireless Developer
Check

- Check requirements
- Patches
- Create Groups
  - Inventory Group
  - Database Group
- Create Operating System User
- Check Environment Variables
- Check Kernel Parameters
- Check Ports (1521 must be available)
# Check requirements

<table>
<thead>
<tr>
<th></th>
<th>Java Developer Topology</th>
<th>Portal and Wireless Middle Tier</th>
<th>OracleAS Infrastructure 10g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Solaris 8, Solaris 9</td>
<td>Solaris 8, Solaris 9</td>
<td>Solaris 8, Solaris 9</td>
</tr>
<tr>
<td>Memory</td>
<td>512 MB</td>
<td>1 GB</td>
<td>1 GB</td>
</tr>
<tr>
<td></td>
<td>(524288 kb)</td>
<td>(1048576 kb)</td>
<td>(1048576 kb)</td>
</tr>
<tr>
<td>To determine the amount of memory, use the <code>prtconf</code> command:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>prompt&gt; prtconf</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>`</td>
<td>grep Memory`</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk space(^1)</td>
<td>450 MB</td>
<td>975 MB</td>
<td>2.6 GB</td>
</tr>
<tr>
<td>To determine the amount of free disk space, use the <code>df</code> command:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>prompt&gt; df</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>-k dir.</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Space in <code>/tmp</code></td>
<td>150 MB</td>
<td>150 MB</td>
<td>150 MB</td>
</tr>
<tr>
<td></td>
<td>(153600 kb)</td>
<td>(153600 kb)</td>
<td>(153600 kb)</td>
</tr>
</tbody>
</table>
Check Requirements

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<th>Java Developer Topology</th>
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</thead>
<tbody>
<tr>
<td>Swap space²</td>
<td>1.5 GB</td>
<td>1.5 GB</td>
<td>1.5 GB</td>
</tr>
<tr>
<td></td>
<td>(1572864 KB)</td>
<td>(1572864 KB)</td>
<td>(1572864 KB)</td>
</tr>
</tbody>
</table>

To determine the amount of available swap space, use the `swap` command:

```
prompt> swap -l
```

The value in the "free" column indicates the number of free blocks, where a block is 512 bytes. To convert blocks to KB, divide the number by 2. For example, 2,000,000 free blocks is equivalent to 1,000,000 KB.
Patches and Packages

• Solaris 8 has approximately 18 patches
• Solaris 9 has two patches
  – showrev -p
• Also check that you have all the packages that OracleAS 10g requires
  – Run packinfo <package name>
Create Groups

- Don’t forget to set the DISPLAY
  - DISPLAY=viper.mfgsys.com:0.0;
  - export DISPLAY
- Inventory Group
  - oinstall
- Database Groups (if installing Portal and Wireless)
  - dba and osoper
Create Operating System User

• Create you’re an Operating System User
  – oracle

• Assign the primary group to oinstall
  – This is the group we previously setup

• Check group assignment
  – groups oracle
## Check Environment Variables

<table>
<thead>
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<th>Environment Variable</th>
<th>Description</th>
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</table>
| DISPLAY              | Set to the current computer.  
  Example (C shell):  
  `setenv DISPLAY`  
  `machine1.acme.com:0.0`  
  Example (Bourne or Korn shell):  
  `$ DISPLAY=machine1.acme.com:0.0; export DISPLAY`  
| TMP                  | If you want the installer to use a directory other than `/tmp`, set the TMP environment variable to the full path of an alternate directory.  
  Example (C shell):  
  `setenv TMP /tmp2`  
  Example (Bourne or Korn shell):  
  `$ TMP=/tmp2; export TMP`  
| ORACLE_HOME and ORACLE_SID | The installer unsets these variables for you. |
Check Environment Variables (cont)

• Make sure Oracle is not mentioned in:
  – PATH, CLASSPATH and LD_LIBRARY_PATH
  – TNS_ADMIN
Check Kernel Parameters

• SEMMNI  100  semaphores sets
• SEMMNS  256  semaphores system
• SEMMSL  256  min for install only
• SHMMMAX  4294967295 (4 GB) *
• SHMMMIN  1  shared mem seg
• SHMMNINI  100  shared mem sys
• SHMSEG  10  shared mem segs
Check Ports

- 1521 must be available
  - netstat –an | grep 1521
- 10g allows you to set ports
  - That would be the long install
    - Check the OracleAS 10g Installation Guide
Installer now does Pre-check

- CPU
- Operating System version
- Operating System patches
- Operating System packages
- Operating System Kernel parameters
- Memory
- Swap Space
- TMP Space
- Instance name (Application Server Instance)
- Oracle Home name (no spaces)
Starting the Installer

- Run installer from CD/DVD
  - Caution: make sure you do not run the installer from inside the mount point. You will not be able to eject the disk to load disk2
- Copy the contents of disk1 and 2 to the server and run the installer
  - Preferred method
Starting the Installer (cont)

• /mount_point/disk1/runInstaller
Install the Infrastructure First

• Even though the Java Additions is listed first install the Infrastructure first
• You will be asked for an Instance Name
  – That name is not the database name it’s the Infrastructure name
• You can now change the Infrastructure database name (had to use iasdb)
Installing the Java Edition

• After running the installer the first screen you will see is the Welcome screen.
  – Click Next
  – Specify the inventory directory (must be different then the Oracle Home
    • /opt/oracle/oraInventory
  – Entry the name of the group “oinstall”
  – Run orainstRoot.sh as root in a different shell as root!
Installing the Java Edition (cont)

- Enter a name for the oracle home
Installing Portal and Wireless Edition

- Installing the Infrastructure
- Installing the Middle Tier
  - Portal and Wireless
- Expanding the Middle Tier
Accessing the Welcome Page

- http://viper.mfgsys.com:7778/
Moving the Infrastructure

• You can move the infrastructure to a new database using RepCA

• This tool copies the OracleAS Metadata Repository from an existing DB to a new DB.

• Oracle® Application Server Repository Creation Assistant Installing the Oracle Application Server Metadata Repository into an Existing Database 10g (9.0.4) for Solaris Operating System (SPARC)

• Part No. B12260-01 November 2003

http://download-west.oracle.com/docs/cd/B10467_02/repca.904/repca/toc.htm
Moving Portal

• Do you use Portal?
  – Note:249513.1
  – How to Install OracleAS Portal 10g (9.0.4) into a Remote Database Using REPCA
E-Business DB

• Do you want to use an E-Business suite DB?
• Note:251627.1 -- Installing an OracleAS Metadata Repository with an Oracle E-Business Suite Database
General Topologies:

Oracle® Application Server 10g
• Advanced Topologies for Enterprise Deployments
• 10g (9.0.4)
• Part No. B12115-01
• September 2003
QUESTIONS & ANSWERS
Contact Information

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• NJOUG Website: www.njouug.org
  – (New and Improved Web Site!!)