Oracle® Secure Enterprise Search

Installation Guide

10*g* Release 1 (10.1.7) Beta for Microsoft Windows (32-Bit)

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This document describes how to install Oracle Secure Enterprise Search (SES). It includes the following sections:

- Pre-Installation Tasks
- Installation Tasks
- Post-Installation Tasks
- Uninstallation Tasks
- Restarting Oracle Secure Enterprise Search
- What to Do Next
- Additional Resources
- Documentation Accessibility

Pre-Installation Tasks

Oracle SES can be installed on the following operating systems:

- Windows 2000
- Windows Server 2003
- Windows XP

This section contains the following topics:

- Checking the Software Requirements
- Checking Hardware Requirements
- Configuring a Loopback Adapter

Checking the Software Requirements

This section lists software requirements for Microsoft Windows installations.

A Windows system must meet the following minimum operating system requirements:

- Windows Server 2003
- Windows 2000 (Service Pack 2 or higher)
- Windows XP Professional

Checking Hardware Requirements

Oracle SES requires a minimum of 2 gigabytes of disk space. This includes 1 gigabyte to install and approximately 0.5 gigabytes to create the initial Oracle SES index. Additional Oracle SES requirements are based on the amount of data that you need to search. Here are some configuration examples:

To index 100,000 documents:

- 4 gigabytes disk space
- 1 gigabyte RAM

To index 1,000,000 documents:

- 20 gigabytes disk space
- 6 gigabytes RAM

For installation help, including pre-installation tips, see the Oracle SES tutorial:

`http://st-curriculum.oracle.com/tutorial/SESAdminTutorial/index.htm`

Configuring a Loopback Adapter

A loopback adapter is required if:

- You are installing on a Dynamic Host Configuration Protocol (DHCP) computer, or
- You are installing on a non-networked computer and plan to connect the computer to a network after installation

For detailed instructions, see the Oracle Database Installation Guide 10g Release 1 (10.1.0.2.0) for Windows. This is posted at

`http://download.oracle.com/docs/html/B10130_02/reqs.htm#sthref370`.

Installation Tasks

For easy instructions on installing Oracle SES, see the Installation Tips tutorial:

`http://st-curriculum.oracle.com/tutorial/SESAdminTutorial/index.htm`

To install the Oracle Secure Enterprise Search software:

1. Ensure that you have checked all the minimum requirements, as described in "Pre-Installation Tasks" on page 1.
2. Log on as a member of the Administrators group to the computer on which to install Oracle components.

   If you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC), log on as a member of the Domain Administrators group.
3. Insert the CD or navigate to the directory where you downloaded or copied the installation files. Use the same installation media to install Oracle Secure Enterprise Search on all supported Windows platforms.
4. Start up the installer:

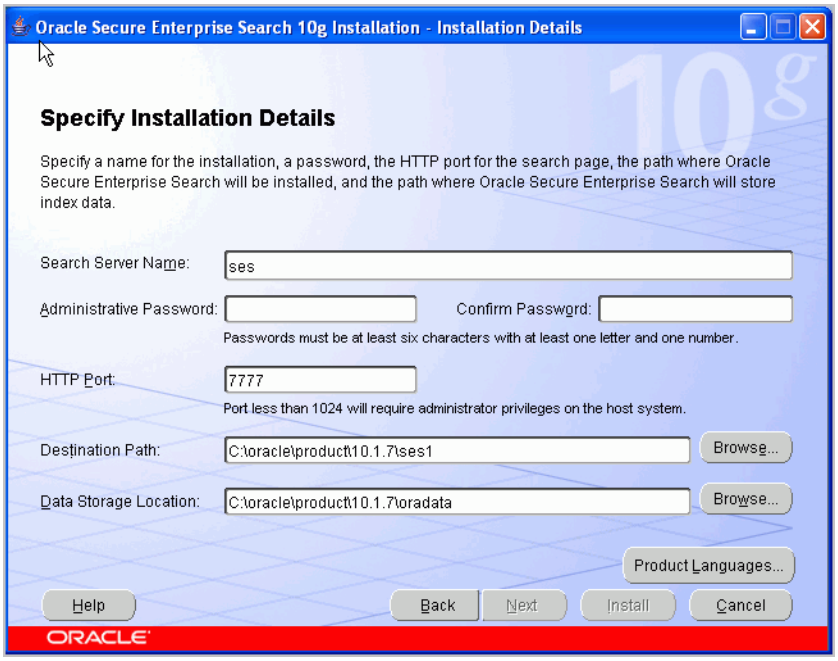
- When installing from a hard disk, double-click `setup.exe` located in the directory you created for the downloaded or copied installation files.
- When installing from the CD, enter the following

```
prompt> cd
prompt> CDROM:\setup.exe
```

This launches Oracle Universal Installer. In the Oracle Universal Installer, the only value that you must specify is the administrative password. The remaining values are set to a default, but they can be overridden. Following is the list of the installation parameters:

- **Search Server Name**: Name for your search server.
- **Administrative Password**: The password that you will later use to log on to the administration tool.
- **HTTP Port**: The port on which the Oracle SES middle tier will listen. For example, if you installed Oracle SES on host myhost.oracle.com and you specify port 7890, then your search page URL will be `http://myhost.oracle.com:7890/search/query/search`.
- **Destination Path**: The location where Oracle SES software is installed
- **Data Storage Location**: The location where Oracle SES will store its data.

The following screenshot shows the Oracle Universal Installer screen.



5. When all of the configuration tools have finished, click **Exit**, then click **Yes** to exit from Oracle Universal Installer.

Post-Installation Tasks

The following URLs indicate a successful installation:

Search: `http://host:port/search/query/search`

Administration tool: `http://host:port/search/admin/index.jsp` (Log on using the password specified during installation.)

Increase Memory - Optional

On Windows, Oracle SES cannot allocate memory (SGA + PGA) correctly if the machine has more than 2G physical memory. The maximum memory usage Oracle SES can allocate is 800M.

If your server has more than 2G physical memory, you can manually increase the SGA and PGA memory size.

Note: Because this task increases the SGA and the PGA to improve cache hit ratio, it should be done by an Oracle Database administrator.

See Also: *Oracle Database Concepts* for more information on Oracle memory architecture

In the following steps:

- `%ORACLE_HOME%` is the directory where Oracle SES was installed
- `<SES Password>` is the Oracle SES administrator password specified during installation
- `<SES NAME>` is the Oracle SES instance name specified during installation

1. Open the original initialization parameter file (`init.ora.*)` file with a text editor. It is in the `%ORACLE_HOME%\admin\<SES NAME>\pfile` directory. Remember to make a backup of this file.
2. Find `sga_target` and `pga_aggregate_target`, and increase the size of each. For example, increase the SGA to 800M with `sga_target=800M`.

   Specify 30% of physical memory to `sga_target` and 10% of physical memory to `pga_aggregate_target`. 1.5G is the limit for `sga_target`, even if you specify more than 1.5G. Save the modified file.
3. Start up Oracle SES.
4. Enter `sqlplus` in a command prompt to start SQL*Plus.
5. Enter the following in the SQL*Plus login prompt:

   ```
   sys/<SES Password> as sysdba
   ```

6. Create a new server parameter file (`SPFILE`) with the following statement:

   ```
   SQL> CREATE SPFILE='%ORACLE_HOME%\dbs\SPFILE_NEW.ORA'
   FROM PFILE='%ORACLE_HOME%\admin\<SES NAME>\pfile\init.ora.*';
   ```

   Specify a new file name for `SPFILE`, and specify the modified `init.ora.*` file for initialization parameter file (`pfile`).

See Also: *Oracle Database SQL Reference* for details on the `CREATE SPFILE` statement

7. Enter `exit` to quit SQL*Plus.
8. Shut down Oracle SES.
9. Make a backup for the original `SPFILE`: `%ORACLE_HOME%\dbs\SPFILE.ORA`. Then, rename the newly created `%ORACLE_HOME%\dbs\SPFILE_NEW.ORA` to `SPFILE.ORA`.
10. Start up Oracle SES.
11. To confirm that your change was applied, launch SQL*Plus with the `eqsys/<SES Password>` user. Then enter the following:

```
SQL> show parameter sga_target
SQL> show parameter pga_aggregat_target
```

If Oracle SES cannot start up, then restore the `SPFILE.ORA` and start Oracle SES again.

Certifications and Patches

The Oracle SES administration tool and default query application are certified on the following browsers:

- Firefox 1.0, 1.0.1, 1.0.6, 1.0.7, 1.5
- Internet Explorer 6.0
- Netscape 7.1, 7.2
- Mozilla 1.7.3

The requirements and certifications included in this installation guide were current at the time this guide was published. See the certification matrix on the Oracle*Metalink* Web site for the most up-to-date information.

See Also: "Oracle Support Services" on page 6

Uninstallation Tasks

To uninstall Oracle SES, navigate to Control Panel - Add or Remove Programs, and remove Oracle Secure Enterprise Search.

Restarting Oracle Secure Enterprise Search

The tool for starting and stopping the search engine is `searchctl`. To restart Oracle SES after rebooting, navigate to the `$ORACLE_HOME/bin` directory where Oracle SES is installed and run `searchctl startall`.

What to Do Next

To become familiar with Oracle Secure Enterprise Search, Oracle suggests that you complete the following tasks:

- Follow the Oracle Secure Enterprise Search tutorial:

http://st-curriculum.oracle.com/tutorial/SESAdminTutorial/index.htm

- Log in to the Oracle SES administration tool, using the user name and password set in the installation. With the administration tool, you can:
  - Define sources to search
  - Configure and schedule the crawling of the sources
  - Monitor the status and performance of crawling and search

  Click the **Help** link in the top right corner of any page in the administration tool for context-sensitive help.
- Read the *Oracle Secure Enterprise Search Administrator's Guide*.
- In a production environment, where a load balancer or other monitoring tools are used to ensure system availability, Oracle SES can also be easily monitored through the following URL: `http://<host>:<port>/monitor/check.jsp`. The URL should return the following message: **Oracle Enterprise Search instance is up.**

  Note: This message is not translated to other languages, because system monitoring tools may need to byte-compare this string.

  If Oracle Secure Enterprise Search is not available, then the URL returns either a connection error or the HTTP error code 503.

Additional Resources

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 user name and password for OTN, then you can go directly to the documentation section of OTN at

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

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http://www.oracle.com/support

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Quick Reference

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