

Exploring Your Database

Purpose

This module describes how you can use the Enterprise Manager Database Grid Control Home Page to proactively and reactively configure and manage your database environment.



Place the cursor on this icon to display all screenshots. You can also place the cursor on each icon to see only the screenshot associated with it.

Overview

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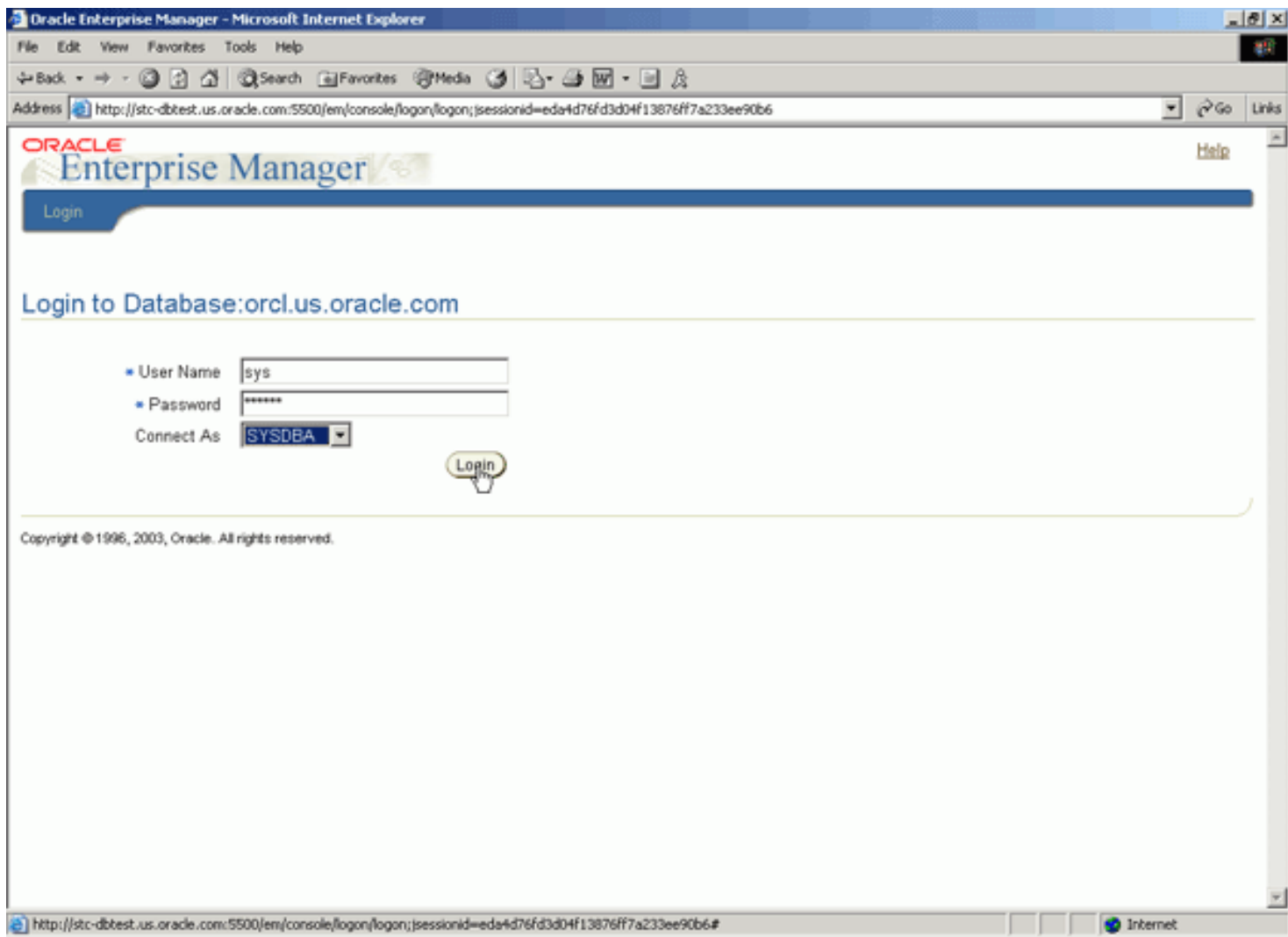
The Oracle Database Home page allows you to view the current state of the database by displaying a series of metrics that portray the overall health of the database. The Oracle Database Home page provides a launch point for the database status and administration and configuration of the database environment. It contains four pages via subtabs with each page displaying sub-sections.

Perform the following:

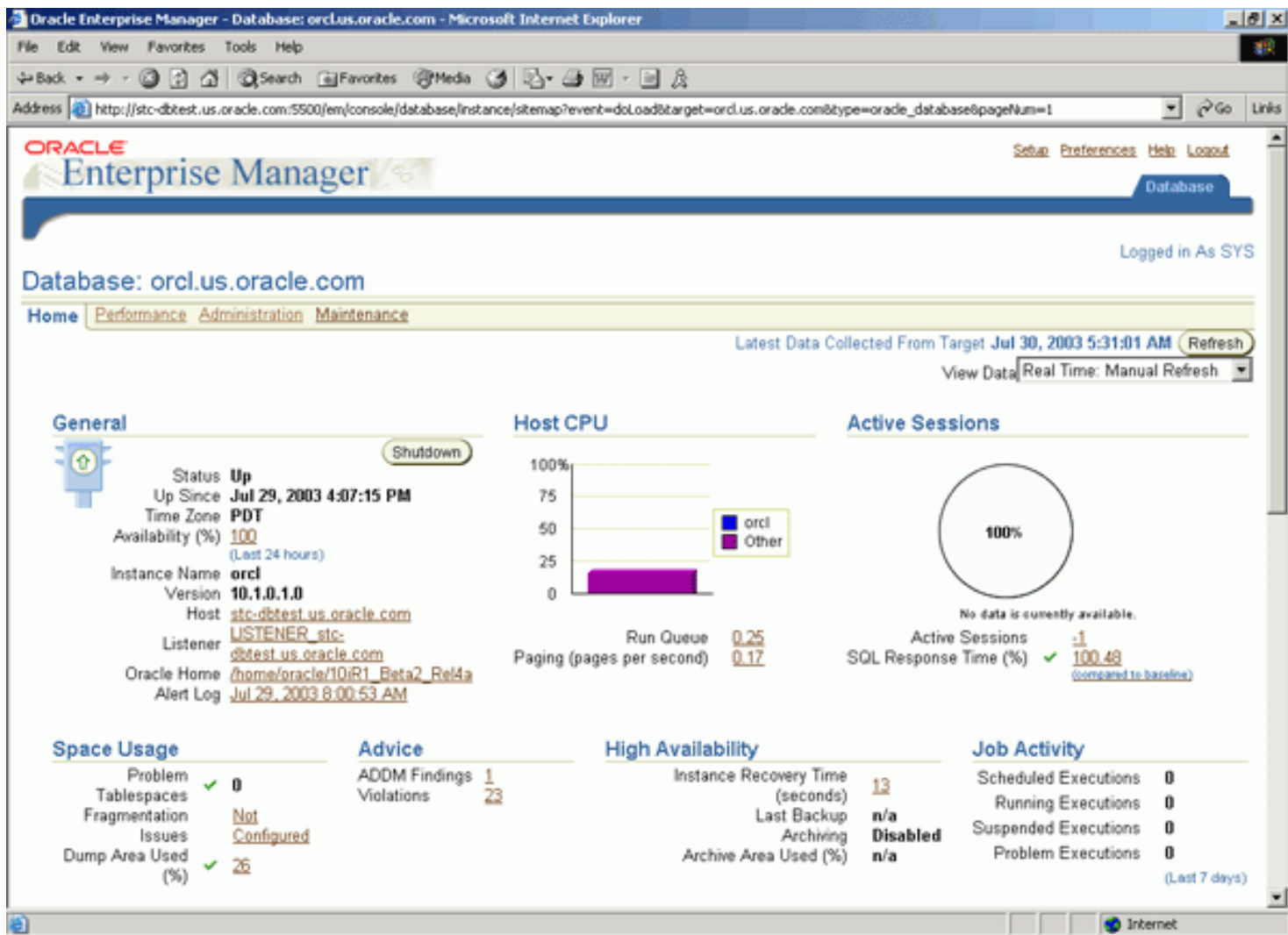
1. Open your browser and enter the following URL:

`http://<hostname>:5500/em`

Enter **sys/<password>** and specify **SYSDBA** then click **Login** .



2. Once you successfully login, you will see the Database Home page for your database. The Homepage provides the overall picture of your database health and activities. On the top left corner it shows the database name you are connected to. It has following sections General, Host CPU, Active Sessions, Space Usage, Advice, High Availability, Job Activity, Alerts, Related Alerts and Related Links.



Oracle Enterprise Manager - Database: orcl.us.oracle.com - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://stc-dttest.us.oracle.com:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&pageNum=1 Go Links

Alerts

Severity	Category	Name	Message	Alert Triggered	Last Value	Time
	Invalid Objects by Schema	Owner's Invalid Object Count	10 object(s) are invalid in the BI schema.	Jul 30, 2003 3:47:06 AM	10	Jul 30, 2003 3:47:06 AM
	Database Limits	Current Open Cursors Count	Metrics "Current Open Cursors Count" is at 417	Jul 30, 2003 3:42:02 AM	419	Jul 30, 2003 3:48:10 AM
	Invalid Objects by Schema	Owner's Invalid Object Count	6 object(s) are invalid in the DMSYS schema.	Jul 29, 2003 7:32:26 AM	6	Jul 30, 2003 3:47:06 AM

Related Alerts

Severity	Target Name	Target Type	Category	Name	Message	Alert Triggered	Last Value	Time
	stc-dttest.us.oracle.com	Host	Filesystems	Filesystem Space Available (%)	Filesystem / has only 19.85% available space	Jul 29, 2003 7:24:26 AM	19.85	Jul 30, 2003 3:39:08 AM

ADDM Analysis

Period Start Time **Jul 30, 2003 3:00:56 AM** Duration (minutes) **29.8**

Finding	Impact (%)	Recommendation Summary
PL/SQL execution consumed significant database time.	12	SQL Tuning 1

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Related Links

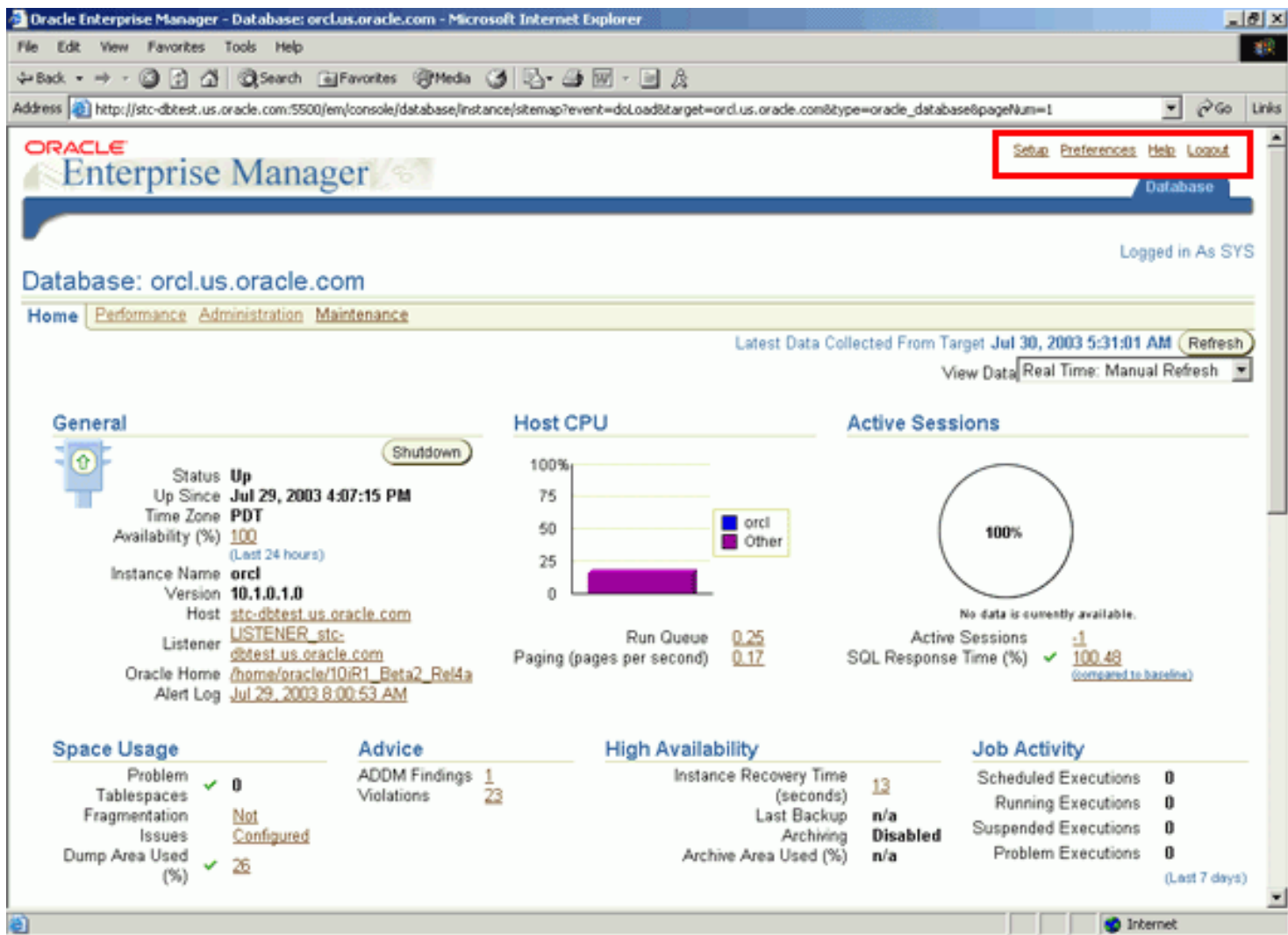
Advisor Central	Alert History	Alert Log Content
All Metrics	Edit Metric Thresholds	Jobs
Metric Collection Errors	Monitoring Configuration	
iSQL*Plus		

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

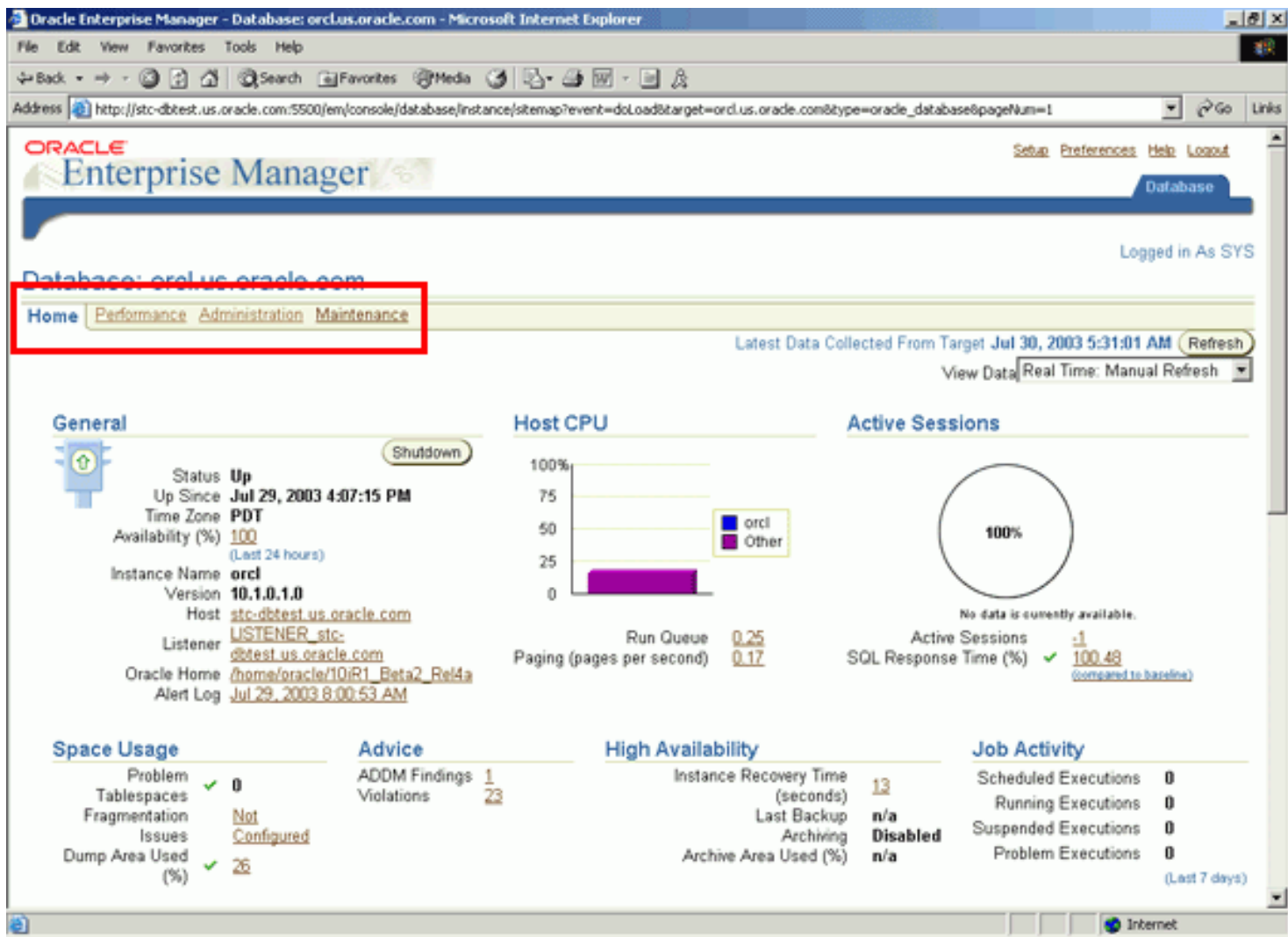
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[About Oracle Enterprise Manager Database Console](#)

Internet

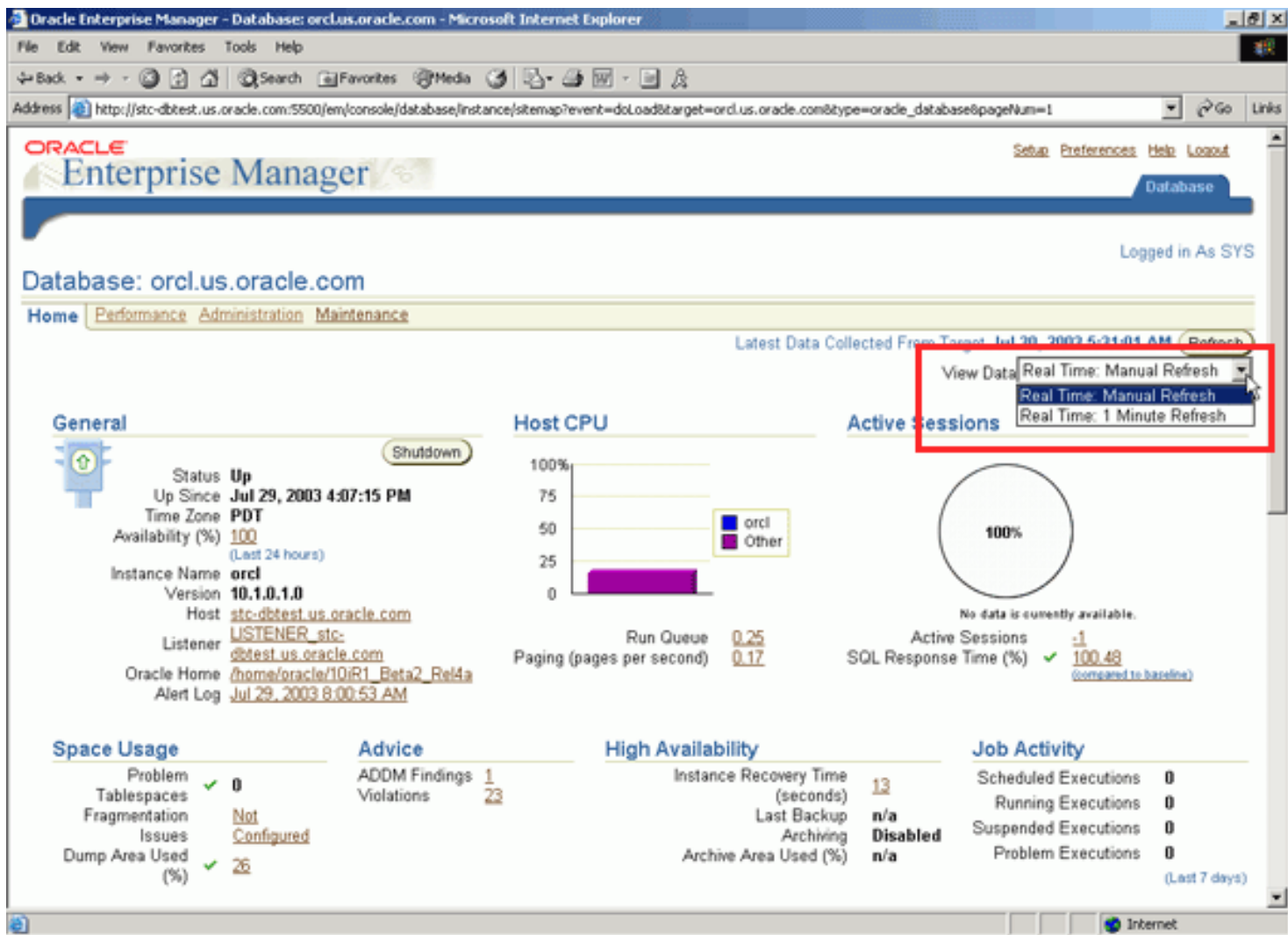
- On the **Top right** corner of the page you will see the link to setup, preferences, help and logout. By using setup you can manage administrators, notification methods, configuration of patch management etc. Preference link provide access to managing information preferred credentials, notification schedules, and so on.



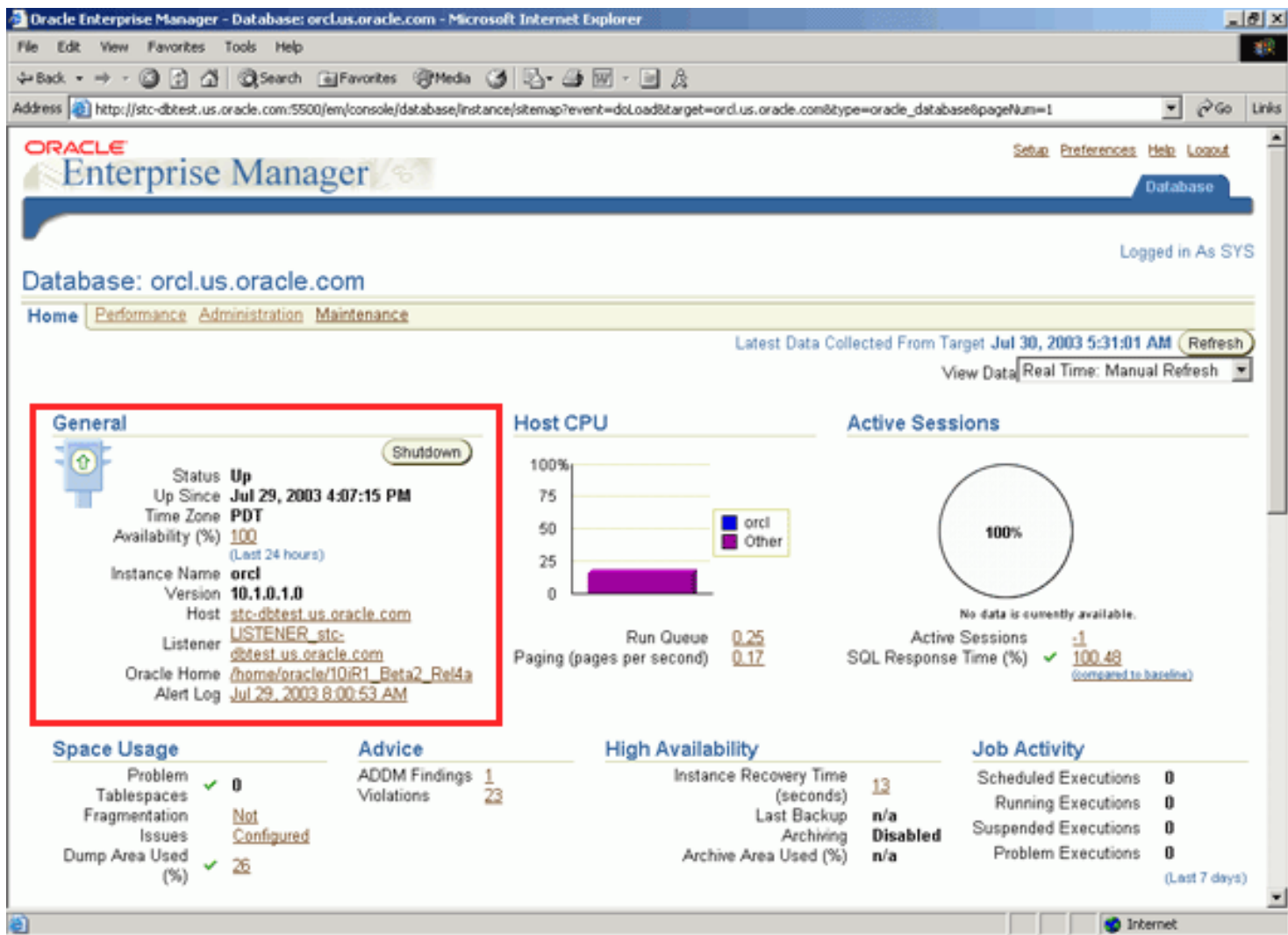
4. You also see different tabs. These tabs provide easy access to information in different categories. These tabs provide direct link to specific and detailed information on performance, administration and maintenance. By default, you will be taken to Home Tab.



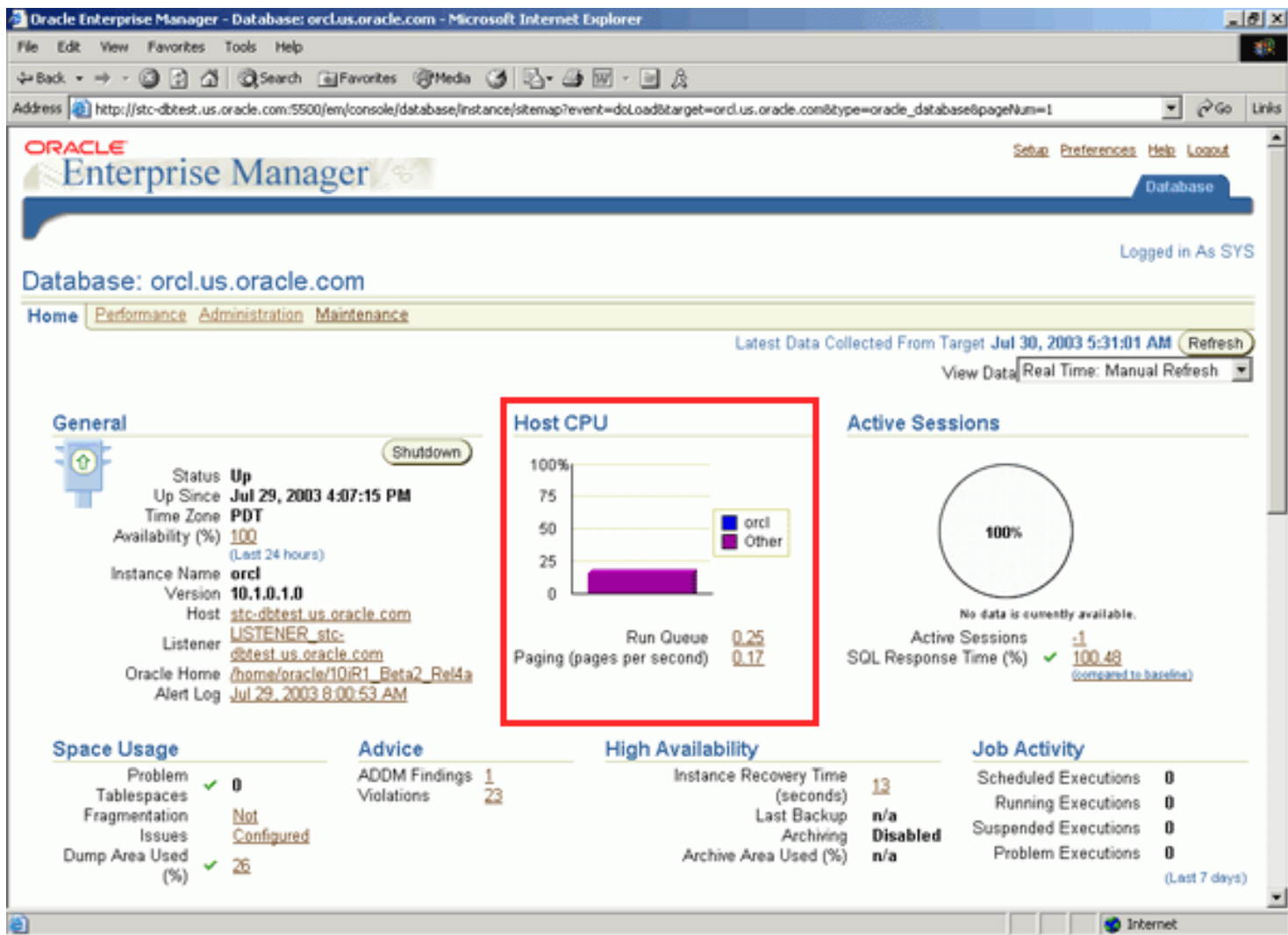
5. This **View Data** drop list selection allows you to change your data to be manually refreshed or automatically refreshed.



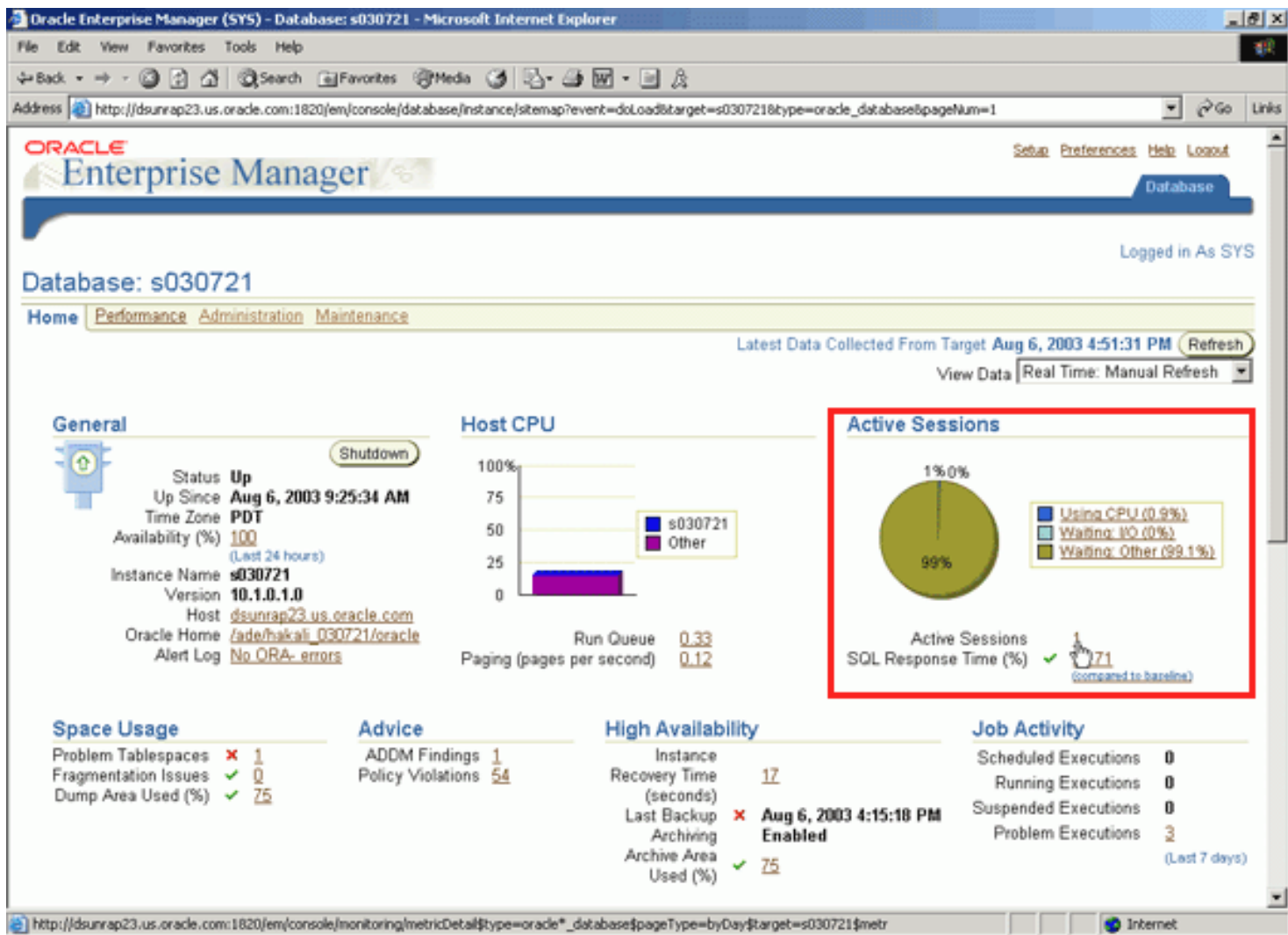
6. The **General** section provides information about the status of your database (up/down), where it is running (server and Oracle home), its instance name, its version, and if there are any ORA-600 errors.



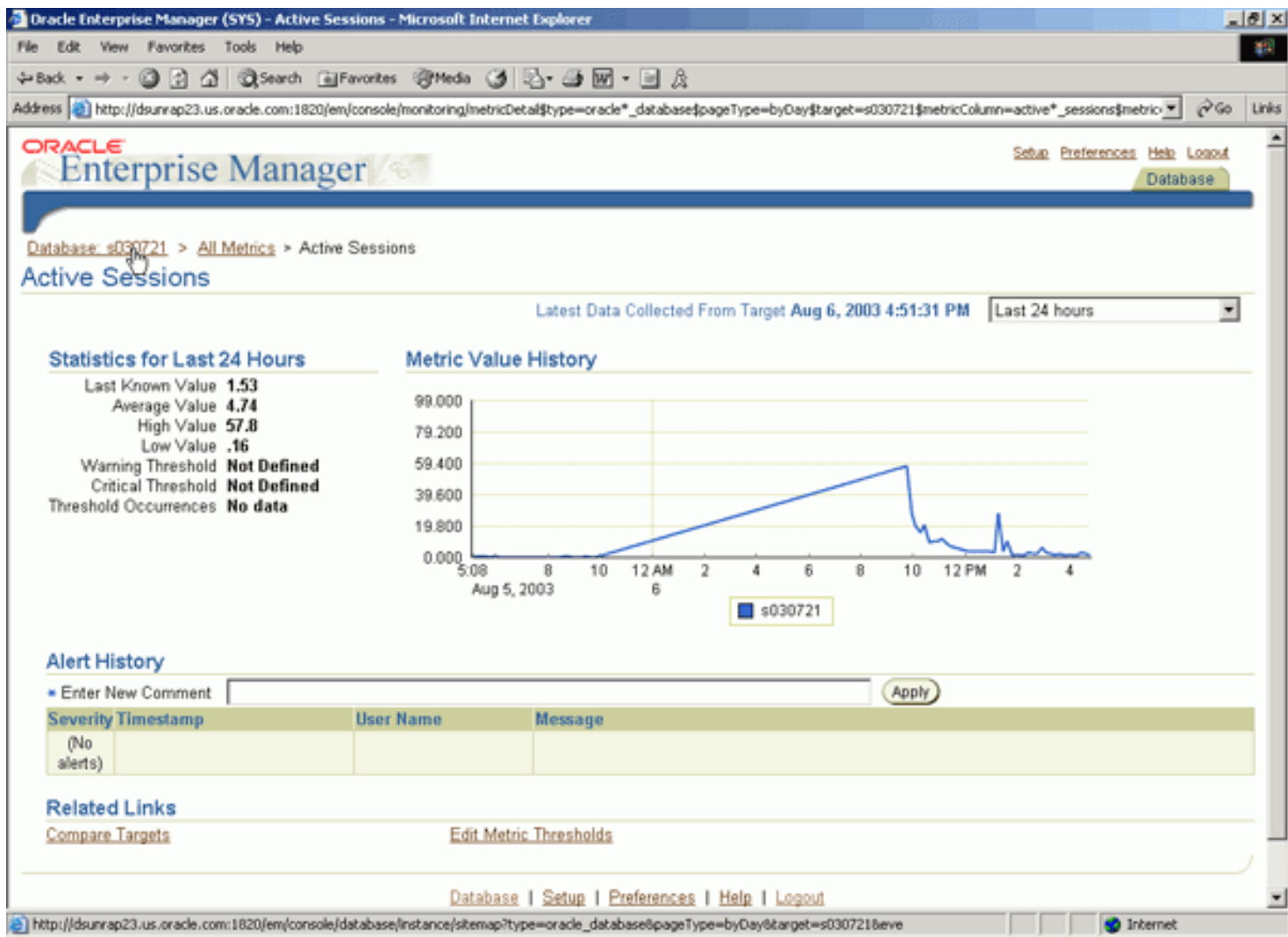
7. The **Host CPU** section provides the overall CPU utilization by the database on the host machine. It also shows the run queue length on the CPU, as well as any paging activity on the host machine.



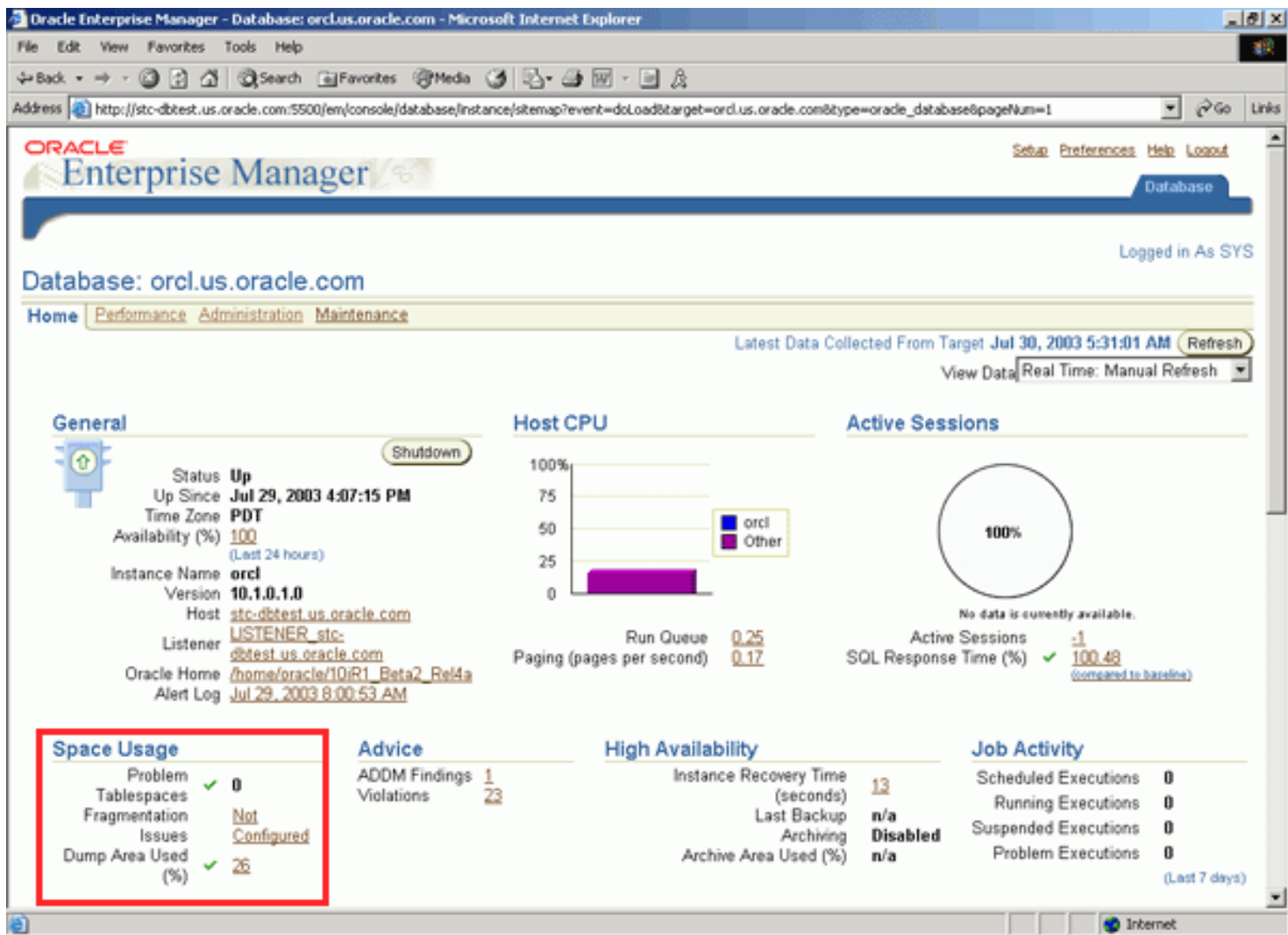
8. Active Sessions shows the average number of sessions doing work (using CPU) or actively waiting during the refresh interval, rounded down to the whole integer. This number is generally less than the total number of sessions connected, as session idle time is natural and almost always present. Click on the **Active Sessions** link



9. You see the Active Session history over the course of the day so you know when the database is at peak utilization. When done, click the **Database** breadcrumb.

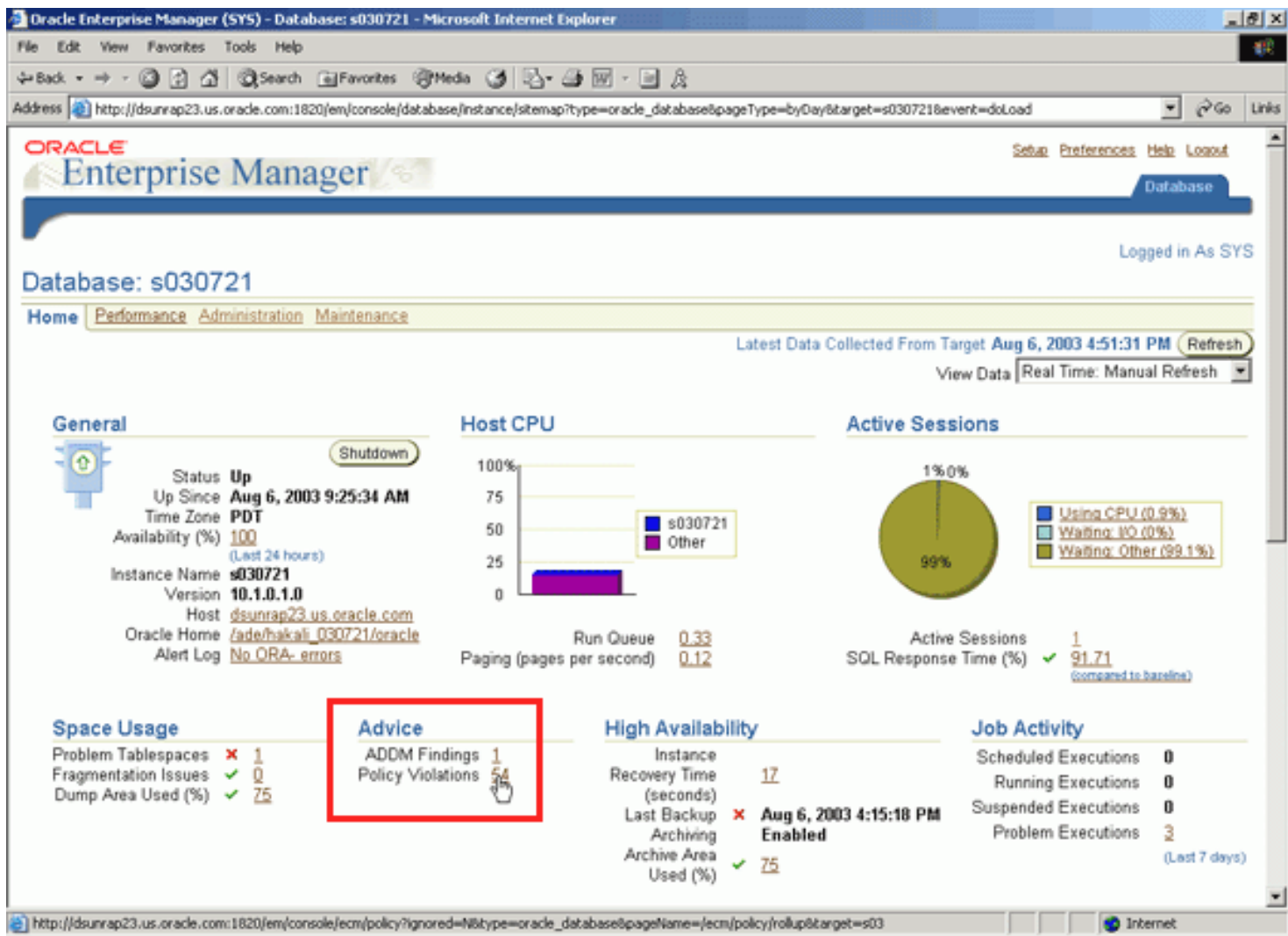


10. The **Space Usage** section highlights if there are any tablespaces that have run out of space, or have fragmentation issues.



11.

The Advice section provides the link to technical advice that Oracle's Automatic Database Diagnostic Monitor (ADDM) tool generates. ADDM is a built-in performance expert that is automatically run every 30 minutes by default. ADDM provides database-wide performance diagnostics for both single-instance and Real Application Clusters (RAC) databases. It not only provides "root-cause analysis" but also provides recommendations to help resolve performance problems. Click on **Policy Violations**.



There are a number of violations presently. You may review the list. When done, click the **Database** breadcrumb.

12.

The screenshot shows the Oracle Enterprise Manager interface in a Microsoft Internet Explorer browser. The page title is "Policy Violations - Microsoft Internet Explorer". The address bar shows the URL: http://dsunrap23.us.oracle.com:1820/em/console/em/policy?ignored=N&type=oracle_database&pageName=/em/policy/rollup&target=s030721&event=rollup.

The Oracle Enterprise Manager logo is at the top left, and the "Database" tab is selected at the top right. The page shows the "Policy Violations" section for database "s030721". It indicates a "Priority" of "High" (marked with a red X) and a "Violation Count" of "54".

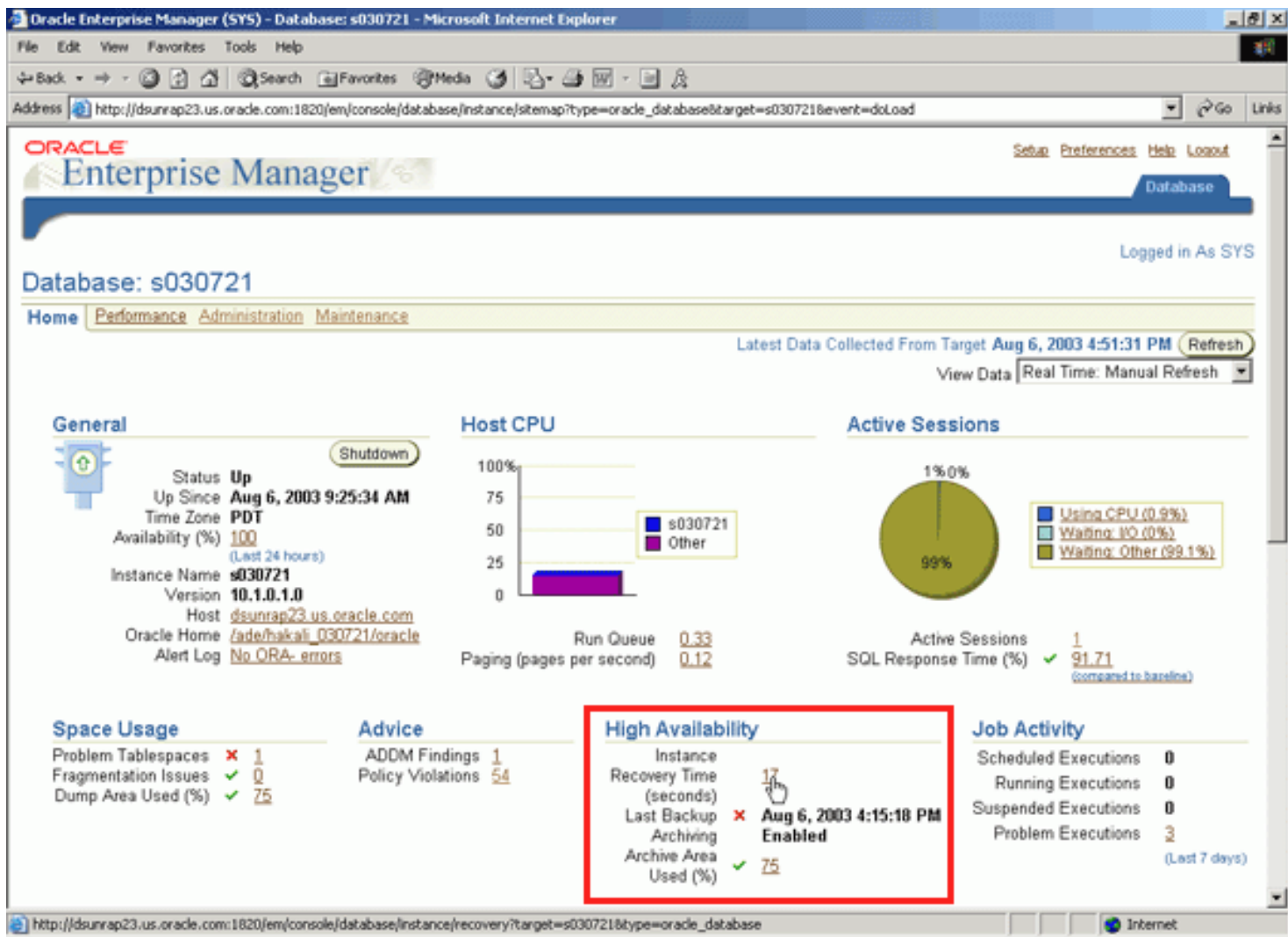
Below the header, there is a "Violations" section with a "View" dropdown set to "Violations" and a "Go" button. A table lists the violations:

Priority	Policy Rule	Category	Recommendation	Violation Count	Details	Last Evaluation	Non-Compliant Since
High (Red X)	Insufficient Number of Control Files	configuration	Use at least two control files that are multiplexed on different disks.	1	File Name /ade/hakali_030721/oracle/dbs/t_cf1.f	Aug 6, 2003 12:51:54 PM	Jul 24, 2003 11:49:40 AM
Medium (Blue i)	Not Using Spfile	configuration	Use server side parameter file to update changes dynamically.	1	Parameter Name spfile	Aug 6, 2003 12:51:54 PM	Jul 24, 2003 11:49:40 AM
Medium (Blue i)	Rollback in SYSTEM Tablespace	configuration	Use a tablespace dedicated to undo instead of the SYSTEM tablespace.	1	Rollback Segment Name T_RS1	Aug 6, 2003 12:51:54 PM	Jul 24, 2003 11:49:40 AM
Medium (Blue i)	Recovery Area Location Not Set	configuration	It is recommended the recovery area location be set to provide a unified storage location for all recovery components. The recovery area location can be set by setting: DB_RECOVERY_FILE_DEST = <recovery area location>.	1	Parameter Name db_recovery_file_dest	Aug 6, 2003 12:51:54 PM	Jul 24, 2003 11:49:40 AM
Medium (Blue i)	Autobackup	configuration	It is recommended autobackup be	1	Parameter Name CONTROLFILE AUTOBACKUP	Aug 6, 2003	Jul 24,

The bottom of the page shows the address bar with the URL: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?type=oracle_database&target=s030721&event=doLoad and the "Internet" icon.

13.

The High Availability section provides the information about your database's ability to recover from instance and media failure. It shows how much time it will take for your database to recover from instance failure and an overview of database backups. Click on the number of seconds related to **Instance Recovery Time**.



14.

You see the Mean Time to Recover. This is the estimated recovery time for Oracle to perform Instance Recovery, on restart after a Shutdown Abort or an Instance failure. Select the **Database** breadcrumb.

Oracle Enterprise Manager (SYS) - Configure Recovery Settings - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://dsunrap23.us.oracle.com:1820/em/console/database/instance/recovery?target=s030721&type=oracle_database Go Links

ORACLE Enterprise Manager Database

Database: s030721 > Configure Recovery Settings Logged in As SYS

Configure Recovery Settings Show SQL Revert Apply

Instance Recovery

The FAST_START_MTTR_TARGET initialization parameter specifies the number of seconds estimated for crash recovery. Oracle converts this number into a set of internal parameters and sets the recovery time as close as possible to these parameters. Setting FAST_START_MTTR_TARGET to 0 will disable this functionality.

Current Estimated Mean Time To Recover (seconds) 17

Desired Mean Time To Recover 5 Minutes

MTTR Advice

Relative change in total I/O

Target Mean Time To Recover (Seconds)

Change in total I/O for various values of MTTR

Current MTTR setting

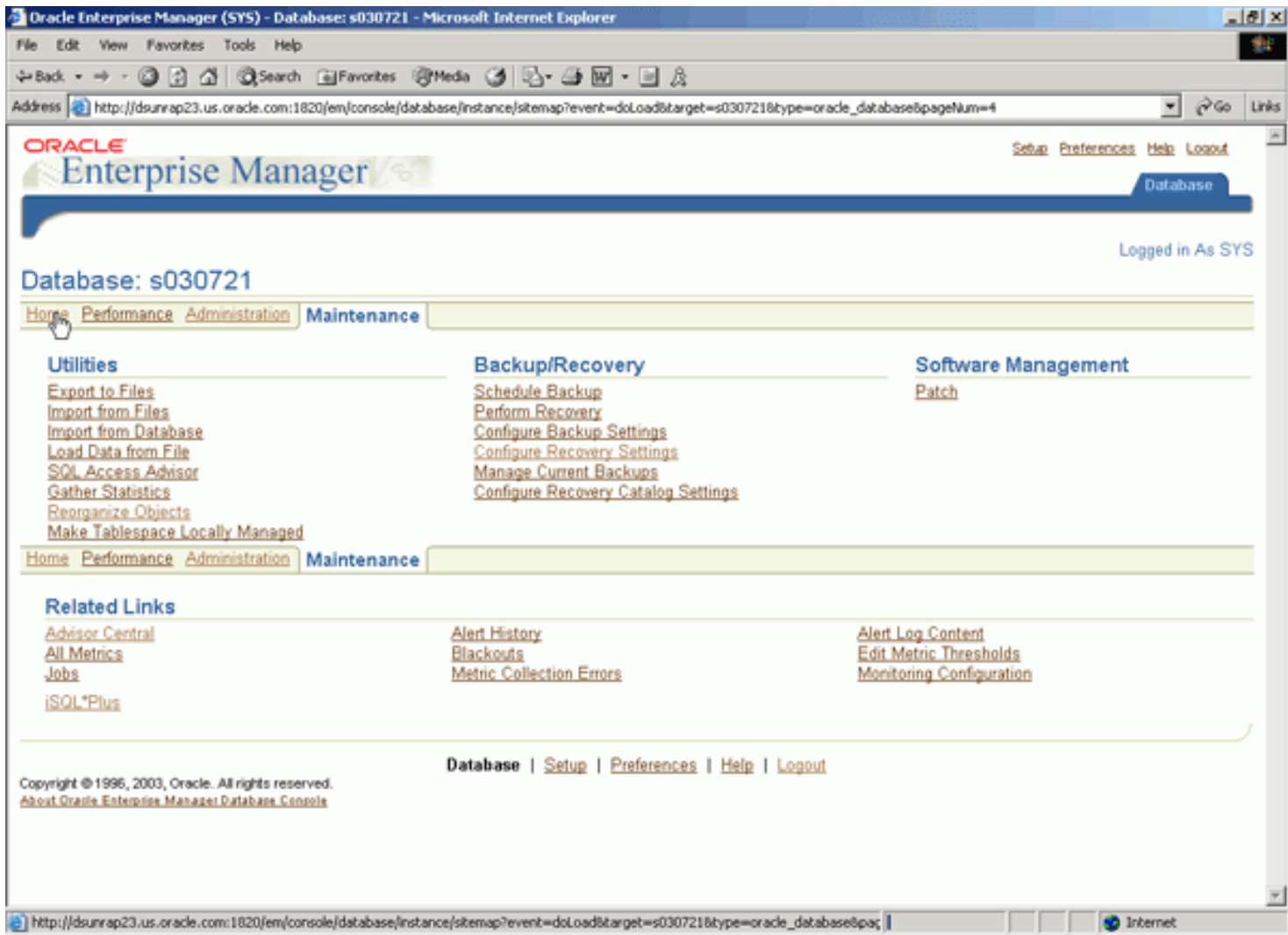
Media Recovery

The database is currently in ARCHIVELOG mode. In ARCHIVELOG mode, hot backups and recovery to the latest time is possible, but you must provide space for logs. If you change the database to ARCHIVELOG mode, you should make a backup immediately. In NOARCHIVELOG mode, you can make only cold backups and

http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle_database&pageN Internet

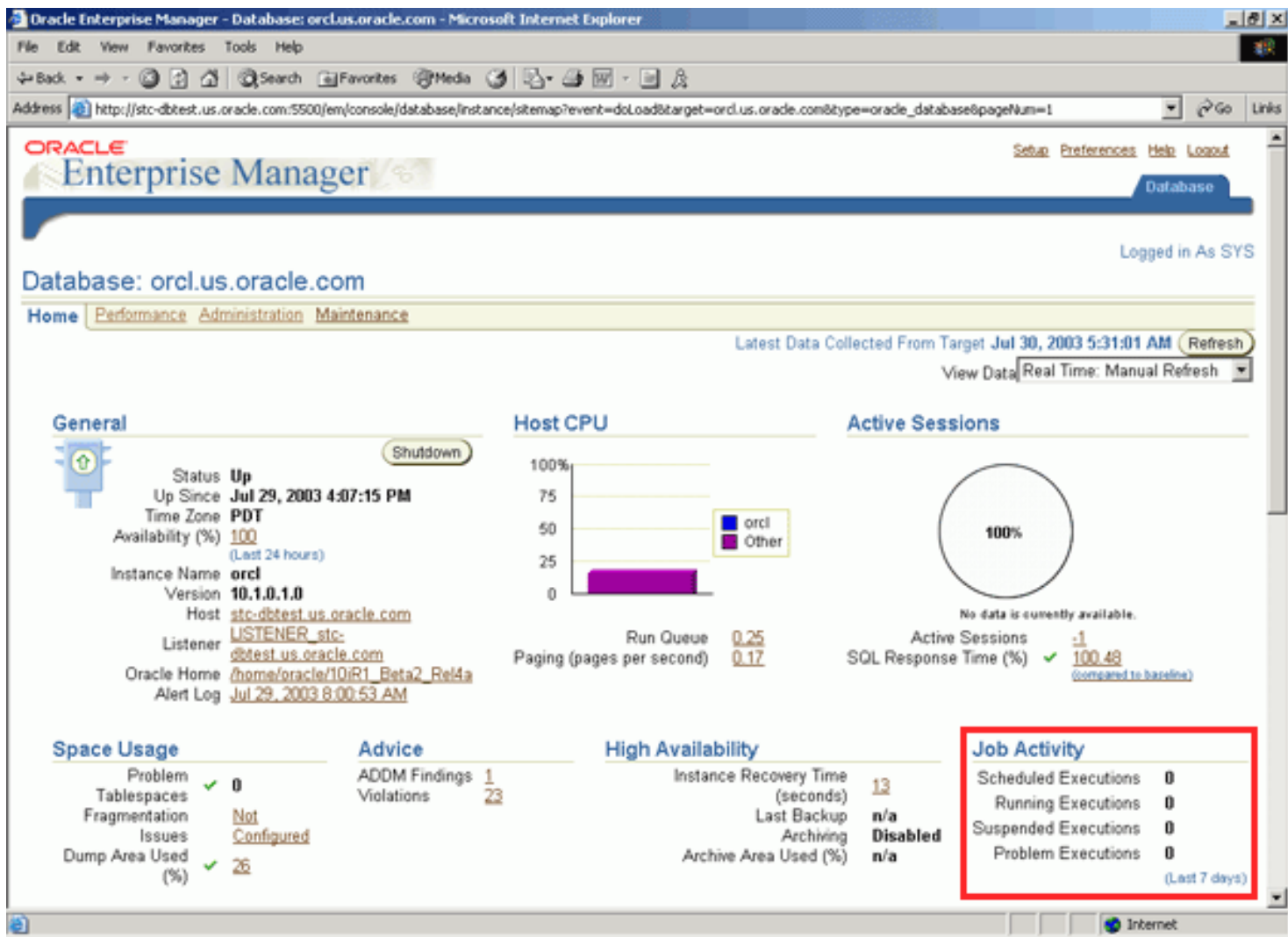
Because Instance Recovery Time is a Maintenance task, you are automatically taken to the Maintenance tab. Click the **Home** tab.

15.



The **Job Activity** section provides the statistics of any job activity in the system for the last 7 days.

16.



The **Alerts** section shows any alerts that you have configured to trigger a notification.

17.

Oracle Enterprise Manager - Database: orcl.us.oracle.com - Microsoft Internet Explorer

Address: http://stc-dbtest.us.oracle.com:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&pageNum=1

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Related Links

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All Metrics	Edit Metric Thresholds	Jobs
Metric Collection Errors	Monitoring Configuration	
iSQL*Plus		

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The **Related Alerts** section shows any alerts that are determined to be related to your configured alerts.

18.

Oracle Enterprise Manager - Database: orcl.us.oracle.com - Microsoft Internet Explorer

Address: http://stc-dbtest.us.oracle.com:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&pageNum=1

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The results from an ADDM run are stored in the Automatic Workload Repository (AWR).

19.

Oracle Enterprise Manager - Database: orcl.us.oracle.com - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://stc-dbtest.us.oracle.com:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&pageNum=1 Go Links

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Internet

The Related Links section provides direct links to different management areas of your database.

Oracle Enterprise Manager (SYS) - Database: s030721 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle_database&pageNum=1 Go Links

Dump Area Used (%) 75

(seconds)
Last Backup Aug 6, 2003 4:15:18 PM
Archiving Enabled
Archive Area Used (%) 75

Running Executions 0
Suspended Executions 0
Problem Executions 2 (Last 7 days)

Alerts

Severity	Category	Name	Message	Alert Triggered	Last Value	Time
	Tablespaces Full	Tablespace Space Used (%)	SYSTEM tablespace is 92.36% used.	Aug 6, 2003 2:23:23 PM	92.47	Aug 6, 2003 4:38:23 PM
	Database Limits	Current Open Cursors Count	The value of opencursors is 1071.	Aug 6, 2003 4:36:21 PM	1,068	Aug 6, 2003 4:46:20 PM

Related Alerts

Severity	Target Name	Target Type	Category	Name	Message	Alert Triggered	Last Value	Time
(No alerts)								

ADDM Analysis

Period Start Time Aug 6, 2003 4:30:11 PM Duration (minutes) 30.82

Finding	Impact (%)	Recommendation Summary
PL/SQL execution consumed significant instance time.	10	SQL Tuning 1

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Related Links

Advisor Central	Alert History	Alert Log Content
All Metrics	Blackouts	Edit Metric Thresholds
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<http://dsunrap23.us.oracle.com:1820/em/console/database/instance/advisorTasks?event=doLoad&dbPageNum=1&target=s030721&type=orac> Internet

Move your mouse over this icon to hide all screenshots