

# Oracle Enterprise Manager(OEM) 13c





# What Is OEM?

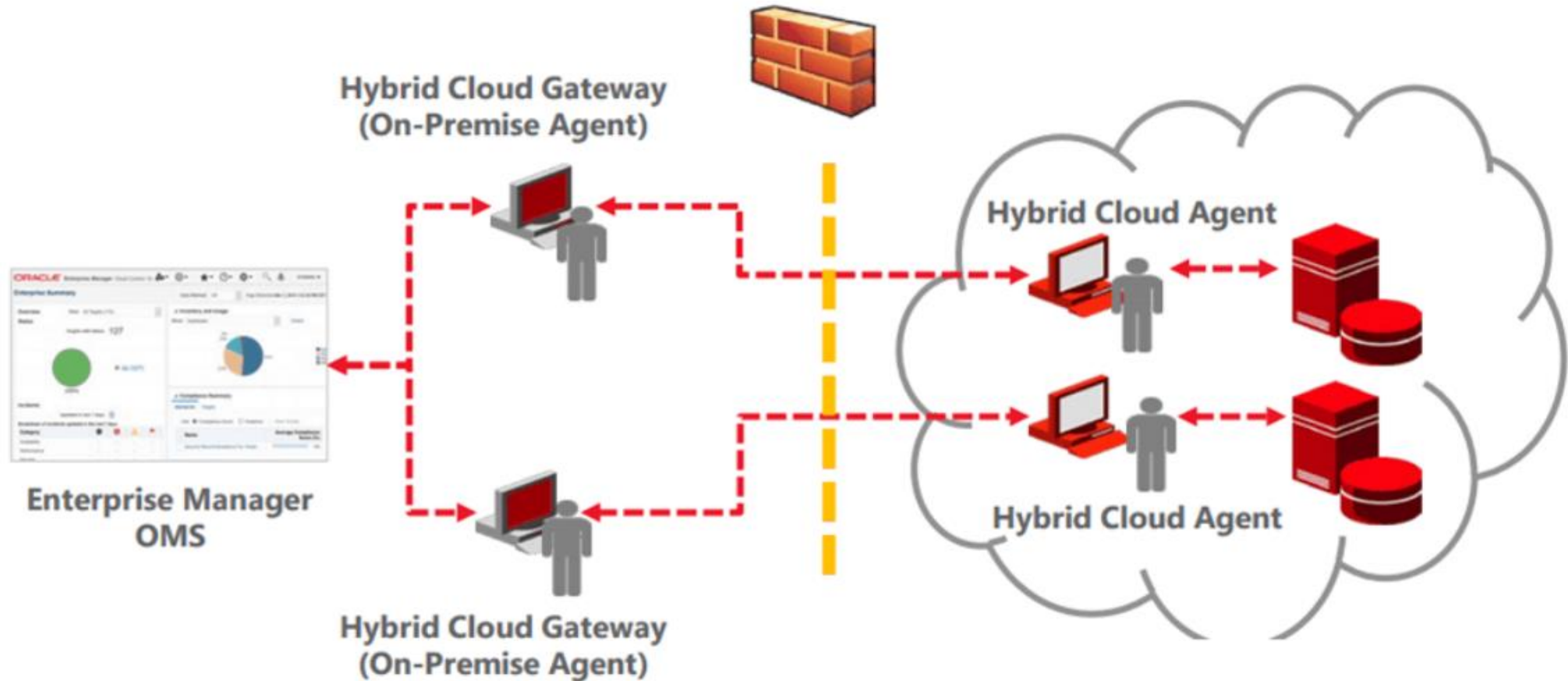
Oracle Enterprise Manager is a system management tool which provides an integrated solution for managing your heterogeneous environment.

It combines a graphical console, agents, common services, and tools to provide an integrated, comprehensive systems management platform for managing Oracle products.



## Tasks from Oracle Enterprise Manager Console:

- \* Administer, diagnose, and tune multiple databases
- \* Distribute software to multiple servers and clients
- \* Schedule jobs on multiple nodes at varying time intervals
- \* Monitor objects and events throughout the network
- \* Customize your display using multiple graphic maps and groups of network objects, such as nodes and databases
- \* Administer Real Application Clusters



# Keywords:



1. **Oracle management repository** store data collected by the management agent gets stored. Also, it organizes the data so that it can be retrieved by the OMS and displayed in the Enterprise Manager Cloud Control console.
2. **Oracle Management Service(OMS)** is a web-based application that runs on Weblogic 13c. OMS is deployed to the middleware home which contains WebLogic Server, plug-ins, JVMD Engine, Oracle WT directory, and other relevant configuration files.
3. **Plug-in** is a pluggable entity that offers special management capabilities customized to suit specific target types. Plug-ins are deployed to the OMS as well as the Management Agent in OEM 13c.

# Keywords:

4. **The management agent** is run on every host that you want to monitor. The management agent works with plug-ins to monitor the target server.

There are two types of management agents :

- a) Central Agent
- b) Standalone Management Agent.

5. **The console** is the GUI front end of the OEM application. With the help of the console, you can monitor your entire computing environment from one location.



# EMCTL

EMCTL is a command-line tool used to execute certain tasks on Oracle Management Service (OMS) and Management Agents.

You can use it for tasks such as starting or stopping OMS instances, setting properties on OMS instances, or getting a list of targets being monitored by a specific Management Agent.

EMCTL commands are executed on a specific OMS or Management Agent

# EMCTL



## To start the dbconsole process:

1. Navigate into your \$ORACLE\_HOME/bin directory

2. Run the following statement:

```
./emctl start dbconsole
```

Additionally, you can stop the process and view its status.

To stop the dbconsole process:

```
./emctl stop dbconsole
```

To view the status of the dbconsole process:

```
./emctl status dbconsole
```



# ORACLE Enterprise Manager Cloud Control 12c

# 12c

**Login**

User Name

Password

## Enterprise Manager Key Features

- Complete, Integrated, Application-to-Disk IT Management  
Use one product to manage your entire IT infrastructure. Manage applications, middleware, database, OS and virtualization from a single console. Discover

## New in this Release

- Get organized with Administration Groups  
Perform group-level operations on member targets of hierarchical Admin Groups based on configurable target properties. Use Template Collections to

## Did you know...

Integrated Sun Hardware Management with Ops Center  
Enterprise Manager Ops Center provides a complete management solution for hardware and firmware. While Ops Center is available as a standalone product



Setup ▾ Help ▾ | SYSMAN | Log Out

Search Target Name

- Configure Auto Discovery
- Auto Discovery Results
- Add Targets Manually

---

- Group...
- Administration Groups...

---

- Generic System...
- Redundancy System...
- Generic Service...

Oracle Load Map

Click here to download plugin.

- My Preferences ▸
- Add Target ▸**
- Agents
- Post Upgrade Tasks

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- Extensibility ▸
- Proxy Settings

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- Security ▸
- Incidents ▸
- Notifications ▸

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- Provisioning and Patching ▸
- My Oracle Support ▸
- Middleware Diagnostics

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- Management Services and Repository
- Management Packs ▸

## Enterprise Summary

Page Refreshed Apr 24, 2014 6:19:00 AM UTC

Auto Refresh Off

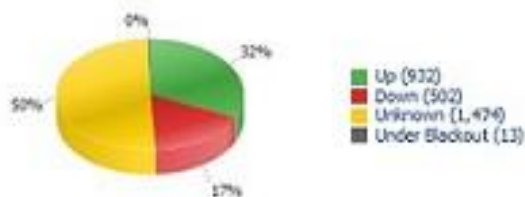
## Overview

View All Targets

Targets Monitored 3538

## Status

Targets with Status 2921



## Incidents

Updated in the last 24 hours: 68  
 Updated in last 7 days: 262

Breakdown of incidents updated in the last 7 days

Category	Incidents	Severity
Availability	98	44
Performance	-	1
Security	-	39
Others	-	81

## Problems

Total Open: 207 Without Service Request: 206  
 Updated in the last 24 hours: 8

## Jobs

Suspended Executions: 24  
 Problem Executions: 99734  
 Action Required Executions: 0

## Patch Recommendations

View by Classification Target Type



All Recommendations

## Inventory and Usage

Show Hosts Details



## Compliance Summary

Frameworks Standards

View Trends

Name	Target Evaluations			Violations			Average Compliance Score (%)
	Pass	Warn	Fail	Pass	Warn	Fail	
Security Technical Implementation Guide (STIG)	1	0	0	1	130	25	31
Fusion Applications Compliance	1	0	5	4	29	16	67
PCI DSS (Version 2.0) - Example Only	1	0	6	4	81	16	72
Oracle Generic Compliance Framework	1	0	6	4	81	16	80

## Least Compliant Targets

View Trends Target Type Host

Target Name	Target Type	Standard Evaluations			Violations			Average Compliance Score (%)
		Pass	Warn	Fail	Pass	Warn	Fail	
slc04sz.us.oracle.com	Host	1	0	0	2	0	0	51
slc03wry.us.oracle.com	Host	1	0	0	1	0	0	51
slc03zra.us.oracle.com	Host	1	0	0	5	0	0	51
slc00ero.us.oracle.com	Host	1	0	0	13	0	0	51
slc00ern.us.oracle.com	Host	1	0	0	13	0	0	51



### Enterprise Summary

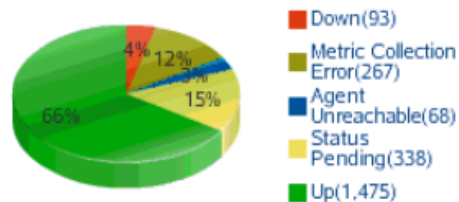
Page Refreshed Jul 29, 2011 4:39:05 AM PDT

Overview View All Targets

Targets Monitored 2905

#### Status

Targets with Status 2241



#### Incidents

Open 1097  
Updated in last 24 hours 696

Category	Open	Warning	Error	Critical
Availability	95	244	60	-
Performance	-	4	-	-
Security	-	122	-	-
Others	95	934	62	-

#### Problems

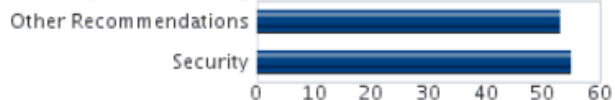
Open 36 Without Service Request 36  
Updated in last 24 hours 30

#### Jobs

Suspended Executions (last 7 days) 15 ⚠  
Problem Executions (last 7 days) 4267 ✖  
Action Required Executions (last 7 days) 0 ✔

#### Patch Recommendations

View by Classification Target Type



#### Inventory and Usage

Show Hosts See Details

Platform	Hosts	OS Patches
Enterprise Linux Server release 5.6 (Carthage)	39	No
Enterprise Linux AS release 4 (October Update 8)	15	No
Enterprise Linux Server release 5.4 (Carthage)	6	No
SunOS	5	No
Red Hat Enterprise Linux Server release 6.0 (Santiago)	3	No

#### Compliance Summary

Compliance Frameworks Compliance Standards

View View Trends

Name	Target Evaluations	Violations	Average Compliance Score (%)
No data to display			

#### Least Compliant Targets

Target Name	Target Type	Standard Evaluations	Violations	Average Compliance Score (%)
example1.com	Host	0 0 1	1 0 0	51
example2.com	Host	1 0 0	2 0 0	51
example3.com	Host	1 0 0	1 0 0	51
example4.com	Host	1 0 0	2 0 0	51
example5.com	Host	0 0 1	0 0 0	100

#### Service Requests

#### My Oracle Support

You cannot access My Oracle Support while in offline mode.

# Database: database

Home [Performance](#) [Administration](#) [Maintenance](#)

Page Refreshed Dec 16, 2003 12:02:13 PM [Refresh](#)

View Data [Manually](#)

## General



[Shutdown](#)

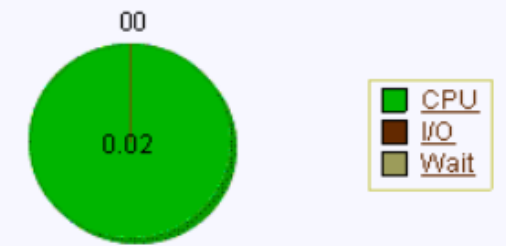
Status **Up**  
 Up Since **Dec 10, 2003 11:16:04 AM**  
 Time Zone **PST**  
 Availability (%) **100**  
(Last 24 hours)  
 Instance Name **s031209**  
 Version **10.1.0.2.0**  
 Read Only **No**  
 Oracle Home [/ade/hakali\\_s031209/oracle](#)  
 Listener [LISTENER\\_dsunrap23.us.oracle.com](#)  
 Host [dsunrap23.us.oracle.com](#)

## Host CPU



Run Queue **0.16**  
 Paging (pages per second) **0.0**

## Active Sessions



Active Sessions **0.02**  
 SQL Response Time (%) **108.45**  
(compared to baseline)

## High Availability

Instance Recovery Time (seconds) **17**  
 Last Backup **n/a**  
 Archiving **Disabled**  
 Archive Area Used (%) **n/a**  
 Flashback Logging **Disabled**

## Space Usage

Database Size (GB) **1**  
 Problem Tablespaces **1**  
 Segment Findings **Not Configured**  
 Policy Violations **229**  
 Dump Area Used (%) **63**

## Diagnostic Summary

Performance Findings **0**  
 All Policy Violations **285**  
 Alert Log **No ORA- errors**

## Alerts

Critical **0**  
 Warnings **1**

## Alerts

Severity	Category	Name	Message	Alert Triggered	Last Value	Time
	Tablespaces Full (dictionary managed)	Tablespace Space Used (%) (dictionary managed)	Tablespace [SYSTEM] is [90.41 percent] full	Dec 10, 2003 12:25:06 PM	91.93	Dec 16, 2003 11:55:05 AM



Summary

Status

Up Time	4
Version	1
Load	0
Total Sessions	1
Last Backup	1
Available Space	1
Used Space	1
Total SGA	1

Diagnostics

ADDM Findings	0
Incidents	0

- Performance Home
- Top Activity
- ASH Analytics
- SQL Monitoring
- SQL
- AWR
- Advisors Home
- Emergency Monitoring
- Real-Time ADDM
- Adaptive Thresholds
- Search Sessions
- Blocking Sessions
- Database Replay

Performance

Activity Class





**Success**

The connection test was successful.



**Configure Database Instance: Properties**

\* Name

Type Database Instance

\* Database System

Name	Value
Oracle Home Path	<input type="text" value="/u01/app/oracle/product/11.2.0/db_1"/>
Monitor Username	dbsnmp
Monitor Password	<input type="password" value="●●●●●●"/>
Role	Normal <input type="button" value="v"/>
Listener Machine Name	<input type="text" value="zurich"/>
Port	<input type="text" value="1521"/>
Database SID	<input type="text" value="CLOUD"/>
Preferred Connect String Enter the connection string that OMS should use when connecting to the target database. If blank, the OMS would automatically construct one using the host, port, SID provided above.	<input type="text"/>



Summary ⓘ

Status

Up Time 42 days, 3 hrs  
 Version 12.1.0.2.0  
 Load 0.01 average active sessions  
 Total Sessions 66  
 Last Backup N/A  
 Available Space 0.57 GB  
 Used Space 4.30 GB  
 Total SGA 752.00 MB

Diagnostics

ADDM Findings 0  
 Incidents 0 1 0 0

Pluggable Databases ⓘ

Summary ↑ 1

Name  Status All ⓘ

Name	Target	Status
██████████	-MGMTDB ██████████	↑

Compliance Summary ⓘ

View Trends

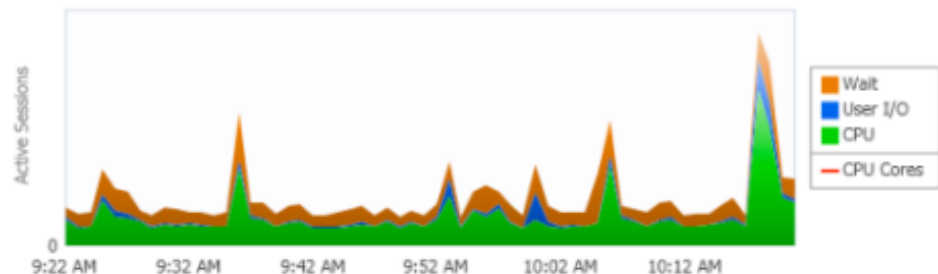
Compliance Standard	Average Score
No data to display	

Jobs Running ⓘ

Name	Duration(m)	Container
No data to display.		

Performance

Activity Class Services Containers



Resources

SQL Monitor - Last Hour

Status	Duration	SQL ID	Session ID	Parallel	Database Time	Container
✓	0.01 s	dut05xpjgv31d	48	3	█	CDB\$ROOT
✓		b7wnbt1cn9529	269	3	█	CDB\$ROOT
✓		dut05xpjgv31d	48	3	█	CDB\$ROOT
✓	1.00 s	dut05xpjgv31d	48	3	█	CDB\$ROOT
✓	0.11 s	0ybxjca2x223	51	3	█	CDB\$ROOT
✓	0.05 s	4zx90xpgr0069	51	3	█	CDB\$ROOT
✓	0.05 s	82jdmx2iffqvz	33	3	█	CDB\$ROOT
✓	0.02 s	860056apsha6c	51	3	█	CDB\$ROOT
✓	0.13 s	a193k5u3nrin1	51	3	█	CDB\$ROOT

Incidents and Problems ⓘ

View ▾ Target Local target and related targets ▾ Category All ▾ 0 1 0 0

Summary	Target	Severity	Status	Escalate
249.34 MB of Audit Trail files collected (.aud: 249.34, .xml: 0, .bin: 0)	█	✖	New	-



Database Home

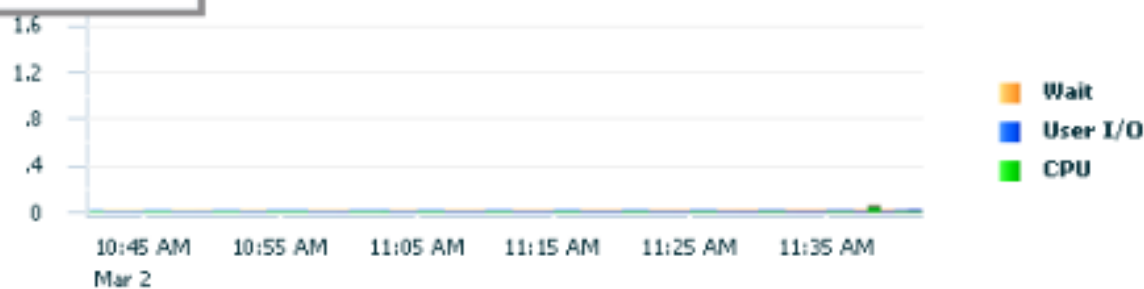
Status

Up Time 2 days, 16 hours, 35 min  
 Type Single Instance (orcl)  
 Version 12.1.0.2.0 Enterprise Editi  
 Database Name ORCL  
 Instance Name orcl  
 Platform Name Linux x86 64-bit  
 Host Name Her.Mine  
 Oracle Home /u01/app/oracle/product/12  
 Thread 1  
 Archiver Stopped

- Tablespaces
- Undo Management
- Redo Log Groups
- Archive Logs
- Control Files

Page Refreshed 11:40:18 AM GMT+0800 Auto Refresh 1 Minute

Services



Incidents - Last 24 Hours

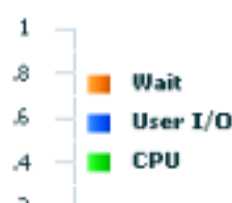
In...	Time	In...	Pr...	Error
No Incidents				

Resources

Host CPU



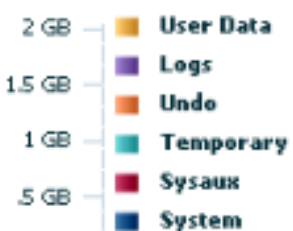
Active Sessions



Memory



Data Storage



Running Jobs

In...	Owner	Name	Ela...	Started
-------	-------	------	--------	---------

SQL Monitor - Last Hour (20 max)

Sta...	Duration	Type	ID	User	Parallel	Dc
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Oracle Enterprise Manager (SYS) - Database Instance: khn.dblab.com\_khrn\_2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Oracle Enterprise Manager (SYS) - Dat...

dblab.com https://k2r720n2.dblab.com:5500/em/console/database/instance/sitemap?type=oracle\_database&target=khm.dl

Cluster Database: khn.dblab.com > Logged in As SYS

### Database Instance: khn.dblab.com\_khrn\_2

Switch Database Instance khn.dblab.com\_khrn\_2

Home Performance Availability Server Schema Data Movement Software and Support

Baseline Name **SYSTEM\_MOVING\_WINDOW** Settings View Data Real Time: 15 Second Refresh

Show  Baselines  CPU Cores  CPU Threads

**Host: Average Runnable Processes**  Show Load Average

Runnable Processes

Legend:

- Load Average
- Non-Database Host CPU
- Instance Background CPU
- Instance Foreground CPU

Run ADDM Now Run ASH Report

**Average Active Sessions**  Foreground Only  Foreground + Background

Average Active Sessions

Legend:

- Other
- Cluster
- Queuing
- Network
- Administrative
- Configuration
- Commit
- Application
- Concurrency
- System I/O
- User I/O
- Scheduler
- CPU Wait
- CPU



For more detail:

<https://www.oracle.com/technical-resources/articles/enterprise-manager/oem-packs-overview.html>

# Oracle Enterprise Manager(OEM) 13c

Completed

