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Oracle Database Management Tools

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Objectives

After completing this lesson, you should be able to:

- Use SQL *Plus to access the Oracle database
- Use SQL Developer to perform administrative tasks
- Use Oracle Enterprise Manager Cloud Control to manage the database instance

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Oracle Database Management Tools: Introduction

- SQL*Plus provides an interface to your database so that you can:
 - Perform database management operations
 - Execute SQL commands to query, insert, update, and delete data in your database
- SQL Developer
 - Is a graphical user interface for accessing your instance of Oracle Database
 - Supports development in both SQL and PL/SQL
- Oracle Enterprise Manager Cloud Control

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Using SQL*Plus

SQL*Plus is:

- A command-line tool
- Used interactively or in batch mode

```
[oracle@EDRSR11P1 ~]$ sqlplus hr

SQL*Plus: Release 12.1.0.1.0 Production on Tue Jul 9 08:45:39 2013

Copyright (c) 1982, 2012, Oracle. All rights reserved.

Enter password:
Last Successful login time: Tue Jul 09 2013 08:45:30 +00:00

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.1.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> SELECT last_name FROM employees;
LAST_NAME
-----
Abel
Ande
...
```

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Calling SQL*Plus from a Shell Script

```
$ ./batch_sqlplus.sh
SQL*Plus: Release 12.1.0.1.0 Production on Thu Nov 15 09:10:48 2012
Copyright (c) 1982, 2012, Oracle. All rights reserved.
Last Successful login time: Wed Nov 14 2012 12:10:11 +00:00
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.1.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics, Real Application Testing
and Unified Auditing options
SQL>
COUNT(*)
-----
107
SQL>
107 rows updated.
SQL>
Commit complete.
SQL> Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.1.0
- 64bit Production
With the Partitioning, OLAP, Advanced Analytics, Real Application Testing
and Unified Auditing options
$
```

Output

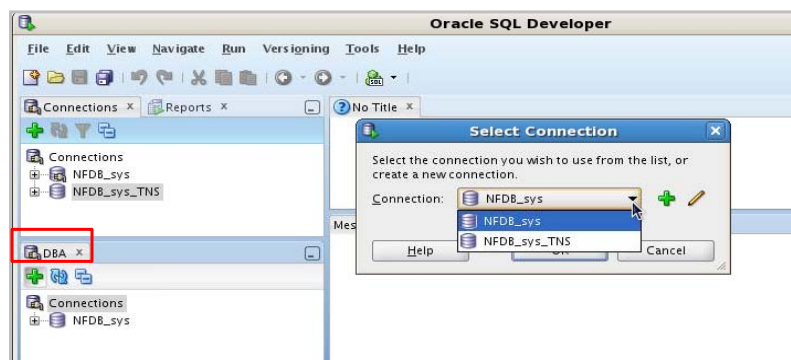
```
# Name of this file: batch_sqlplus.sh
# Count employees and give raise.
sqlplus hr/hr <<EOF
select count(*) from employees;
update employees set salary = salary*1.10;
commit;
quit
EOF
```

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Oracle SQL Developer: Connections

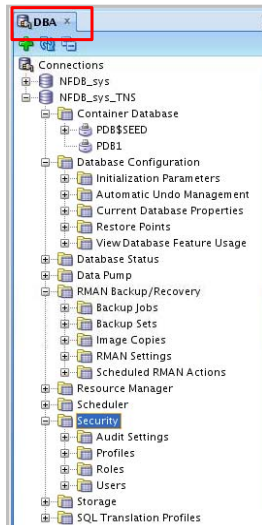
Perform DBA operations in the DBA navigator by using DBA connections:



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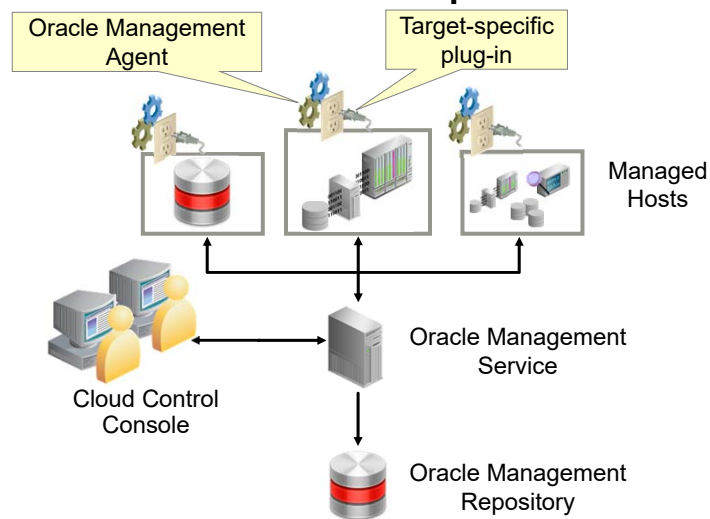
Oracle SQL Developer: DBA Actions



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Oracle Enterprise Manager Cloud Control Components



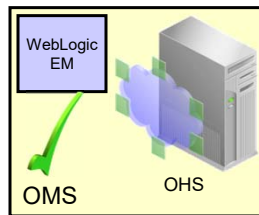
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Starting the Enterprise Manager Cloud Control Framework

To start the Cloud Control framework, perform the following steps:

1. Start the repository database listener.
2. Start the repository database instance.
3. Start OMS.
4. Start the agent on the OMS/repository server.
5. Start the agents on the managed servers.



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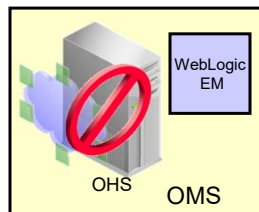
Stopping the Enterprise Manager Cloud Control Framework

To stop the Enterprise Manager Cloud Control framework, perform the following steps:

1. Stop the agents on managed servers.
2. Stop the agent on the OMS/repository server.
3. Stop OMS.
4. Stop the repository database instance.



Agents



Repository

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Types of Enterprise Manager Cloud Control Targets

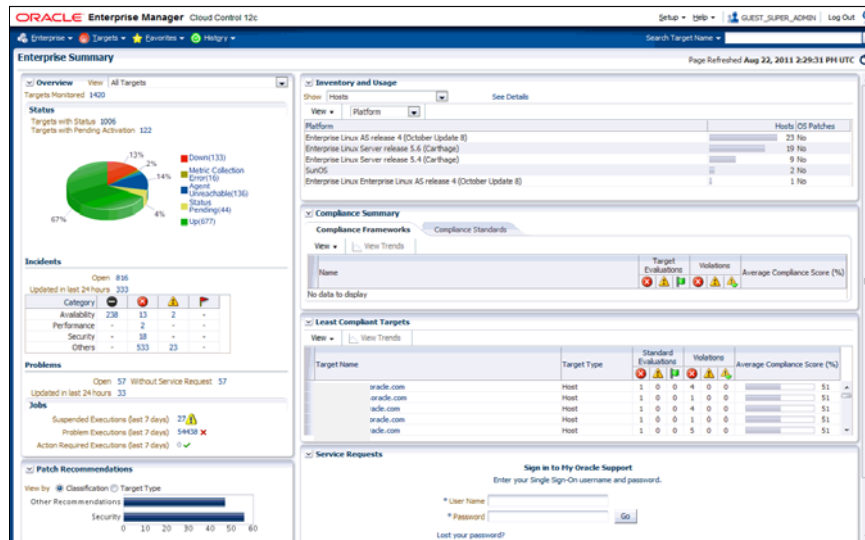
Enterprise Manager Cloud Control can monitor, administer, maintain, and manage different types of targets including:

- Oracle databases
- Oracle Database Listener
- Oracle Fusion Middleware products
- Oracle Application Server
- Oracle WebLogic Server
- Oracle applications, including E-Business Suite, SOA, Siebel, and PeopleSoft
- Exadata and Exalogic
- Cloud Control Components: OMR and OMS
- Third-party products

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Enterprise Manager Cloud Control



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Summary

In this lesson, you should have learned how to:

- Use SQL*Plus to access the Oracle database
- Use SQL Developer to perform administrative tasks
- Use Oracle Enterprise Manager Cloud Control to manage the database instance

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