Oracle Cloud Control 13c

ohsdba
Prerequisites

Hardware
- RAM: 8GB
- CPU: Intel (R) Core (TM) i7-4510U CPU @ 2.00GHz
- SSD: 256G
- OS: Windows 7 Ultimate, 64-bit 6.1.7601, Service Pack 1

Software
- VMware® Workstation 11.1.2 build-2780323
- Oracle Linux 7 Update 2 x86-64
- Oracle Database 12c Release 1 (12.1.0.2)

you can get Oracle Software from
https://edelivery.oracle.com

Note: please obey the terms of use

Install Guide
http://docs.oracle.com/cd/E63000_01/index.htm

Install Summary

<table>
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<th>Summary</th>
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<tbody>
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<td>OS</td>
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<tr>
<td>Server name</td>
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<tr>
<td>Public IP</td>
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<tr>
<td>root</td>
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<td>DB login U/P</td>
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<table>
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<tr>
<th>DB and EMCC</th>
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<tr>
<td>DB Name</td>
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<tr>
<td>Instance Name</td>
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<tr>
<td>Oracle_Base</td>
</tr>
<tr>
<td>Oracle_Home</td>
</tr>
<tr>
<td>OMS_Home</td>
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<tr>
<td>Agent_Home</td>
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<tr>
<td>DB/Weblogic User/Password</td>
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<tr>
<td>EMCC login URL</td>
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<tr>
<td>Admin Server Login URL</td>
</tr>
</tbody>
</table>

Note: you should have at least 4G memory with 4G swap for OMS server. If not, you will encounter issues. If your hardware resource is enough, please ignore
Create VM Server

Virtual Machine Details
- **State:** Powered off
- **Snapshot:** pm_bwv0_pl
- **Configuration file:** /Users/omserver/11G10/RAC1.rmx
- **Hardware compatibility:** Workstation 11.0 virtual machine
Install OEL 7.2

Screen snapshot

Oracle Linux 7.2

Install Oracle Linux 7.2
Test this media & install Oracle Linux 7.2

Troubleshooting

Press Tab for full configuration options on menu items.
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c

Base Environment
- Minimal Install
- Infrastructure Server
- File and Print Server
- Basic Web Server
- Virtualization Host
- **Server with GUI**
  - Server for operating network infrastructure services, with a GUI.

Add-Ons for Selected Environment
- **Backup Server**
  - Software to centralize your infrastructure’s backups.
- **DNS Name Server**
  - This package group allows you to run a DNS name server (BIND) on the system.
- **E-mail Server**
  - Allows the system to act as a SMTP and/or IMAP e-mail server.
- **FTP Server**
  - Allows the system to act as an FTP server.
- **File and Storage Server**
  - CIFS, SMB, NFS, iSCSI, iSER, and iSNS network storage server.
- **Hardware Monitoring Utilities**
  - A set of tools to monitor server hardware.
- **Identity Management Server**
  - Centralized management of users, servers and authentication policies.
- **Infiniband Support**
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c

The root account is used for administering the system. Enter a password for the root user.

Root Password: ********

Confirm: ********

You have provided a weak password. The password fails the dictionary check - it is based on a dictionary word. Press Done again to use anyway.
Install Oracle Cloud Control 13c

Oracle Linux: All errata and updates freely available across all channels at the same time, with or without a subscription.
Install Oracle Cloud Control 13c

Complete!

Oracle Linux is now successfully installed and ready for you to use!
Go ahead and reboot to start using it!

Reboot and Accept License
1) Read the License Agreement
2) I accept the license agreement.

Please make your choice from above ['q' to quit] ['c' to continue] ['r' to refresh]:
Install Oracle Cloud Control 13c

Typing

Select your keyboard layout or an input method:

- Cameron Multilingual (Durnak)
- Cameron Multilingual (Kpwy)
- English (Cameroon)
- English (Canada)
- English (Czech)

English (US)

About You

We need a few details to complete setup.

Full Name: shodba
Username: shodba

This will be used to name your home folder and can't be changed.
Config yum repository
[root@prod ~]# cd /etc/yum.repos.d/
[root@prod1 yum.repos.d]# ls
/etc/yum.repos.d
[root@prod1 yum.repos.d]# cp public-yum-ol7.repo public-yum-ol7.repo.bak
[root@prod1 yum.repos.d]# vi public-yum-ol7.repo
[OEL72]
name=ol72
baseurl=file:///run/media/root/OL-7.2\ Server.x86_64/
gpgcheck=0
Install Oracle Cloud Control 13c

enabled=1

"public-yum-ol7.repo" 5L, 94C written
[root@prod1 yum.repos.d]#
[root@prod1 yum.repos.d]#
[root@prod1 yum.repos.d]# cat public-yum-ol7.repo
[OEL72]
name=ol72
baseurl=file:///run/media/root/OL-7.2\ Server.x86_64/
gpgcheck=0
enabled=1
[root@prod1 yum.repos.d]#

Install 12cR1 preinstall package

[root@prod1 Packages]# yum install oracle-rdbms-server-12cR1-preinstall -y
Install Oracle Cloud Control 13c

Install glibc-devel 32bit

[root@prod1 Packages]# ls -l|grep glibc-devel
-rw-rw-r-- 1 root root  1098144 Sep 22 17:57 glibc-devel-2.17-105.0.1.el7.i686.rpm
-rw-rw-r-- 1 root root  1097252 Sep 22 17:57 glibc-devel-2.17-105.0.1.el7.x86_64.rpm

[root@prod1 Packages]# yum install glibc-devel-2.17-105.0.1.el7.i686.rpm -y

Loaded plugins: langpacks, ulninfo
Examining glibc-devel-2.17-105.0.1.el7.i686.rpm: glibc-devel-2.17-105.0.1.el7.i686
Marking glibc-devel-2.17-105.0.1.el7.i686.rpm to be installed
Resolving Dependencies
---> Running transaction check
---> Package glibc-devel.i686 0:2.17-105.0.1.el7 will be installed
---> Processing Dependency: libBrokenLocale.so.1 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libanl.so.1 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libcidn.so.1 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libcrypt.so.1 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libdl.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libm.so.6 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libnsl.so.1 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libnss_compat.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libnss_db.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libnss_files.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libnss_hesiod.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libnss_nis.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libnss_nisplus.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libresolv.so.2 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libthread_db.so.1 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Processing Dependency: libutil.so.1 for package: glibc-devel-2.17-105.0.1.el7.i686
---> Running transaction check
---> Package glibc.i686 0:2.17-105.0.1.el7 will be installed
---> Processing Dependency: libfreebl3.so(NSSRAWHASH_3.12.3) for package: glibc-2.17-105.0.1.el7.i686
---> Processing Dependency: libfreebl3.so for package: glibc-2.17-105.0.1.el7.i686
---> Running transaction check
---> Package nss-softokn-freebl.i686 0:3.16.2.3-13.el7_1 will be installed

Transaction Summary

Total 1 Package (+2 Dependent packages)
Total size: 5.4 M
Total downloaded: 4.4 M

Dependencies Resolved
Install Oracle Cloud Control 13c

Dependency Installed:
- glibc.i686 0:2.17-105.0.1.el7
- 0:3.16.2.3-13.el7_1
- nss-softokn-freebl.i686

Complete!
[root@prod1 Packages]#

Disable firewall
[root@prod1 ~]# systemctl list-unit-files
firewalld.service                       enabled
Firewalld is running.

[root@prod1 ~]# firewall-cmd --state
running

[root@prod1 ~]# systemctl disable firewalld
Removed symlink /etc/systemd/system/basic.target.wants/firewalld.service.
Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.

[root@prod1 ~]# systemctl stop firewalld
Not running

[root@prod1 ~]# systemctl list-unit-files|grep firewall
firewalld.service                     disabled

Modify hostname
Modify hostname to occprod.

occprod means Oracle Cloud Control for Production.

[root@prod1 Desktop]# hostnamectl set-hostname occprod.us.oracle.com --static
[root@occprod ~]# hostnamectl
Static hostname: occprod.us.oracle.com
  Icon name: computer-vm
  Chassis: vm
  Machine ID: 5b9c4aee63e4dcdb81da60a7a913c57
  Boot ID: 39b6aef3701d49fdb104e03ac530783
  Virtualization: vmware
  Operating System: Oracle Linux Server 7.2
  CPE OS Name: cpe:/o:oracle:linux:7:2:server
  Kernel: Linux 3.8.13-98.7.1.el7uek.x86_64
  Architecture: x86-64

[root@occprod ~]#

Expand Disk(optional)
I created the VM server with 40G at the beginning, but it is not enough. I resize the vm disk to 80G and then create a new partition with fdisk. If you have enough space, you can skip this step

[root@occprod ~]# fdisk /dev/sda
Welcome to fdisk (util-linux 2.23.2).
Install Oracle Cloud Control 13c

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help): p

Disk /dev/sda: 85.9 GB, 85899345920 bytes, 167772160 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x0009d2ec

Command (m for help): m
Command action
  a   toggle a bootable flag
  b   edit bsd disklabel
  c   toggle the dos compatibility flag
  d   delete a partition
  g   create a new empty GPT partition table
  G   create an IRIX (SGI) partition table
  l   list known partition types
  m   print this menu
  n   add a new partition
  o   create a new empty DOS partition table
  p   print the partition table
  q   quit without saving changes
  s   create a new empty Sun disklabel
  t   change a partition's system id
  u   change display/entry units
  v   verify the partition table
  w   write table to disk and exit
  x   extra functionality (experts only)

Command (m for help): n
Partition type:
  p   primary (2 primary, 0 extended, 2 free)
  e   extended
Select (default p):
Using default response p
Partition number (3,4, default 3):
First sector (83886080-167772159, default 83886080):
Using default value 83886080
Last sector, +sectors or +size(K,M,G) (83886080-167772159, default 167772159):
Using default value 167772159
Partition 3 of type Linux and of size 40 GiB is set

Command (m for help): p

Disk /dev/sda: 85.9 GB, 85899345920 bytes, 167772160 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Install Oracle Cloud Control 13c

I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x0009d2ec

Device Boot Start End Blocks Id System
/dev/sda1 * 2048 1026047 512000 83 Linux
/dev/sda2 1026048 83886079 41430016 8e Linux LVM
/dev/sda3 83886080 167772159 41943040 83 Linux

Command (m for help): w
The partition table has been altered!

Calling ioctl() to re-read partition table.

WARNING: Re-reading the partition table failed with error 16: Device or resource busy.
The kernel still uses the old table. The new table will be used at the next reboot or after you run partprobe(8) or kpartx(8)
Syncing disks.

[root@occprod ~]# mkfs.xfs -f /dev/sda3

Add below line to /etc/fstab
[root@occprod ~]# cat /etc/fstab | grep oradata
/dev/sda3 /oradata xfs defaults 0 0

[root@occprod ~]# df -h

Expand swap(optional)
The physical memory 4G with swap 2G is not enough, I expand the swap to 4G. If not, you will encounter issue during installing. If you have enough memory, you can skip this step

cd /oradata/
dd if=/dev/zero of=swap bs=1024 count=2048000
Install Oracle Cloud Control 13c

```
-install
/oradata/swap

[root@occprod ~]# free -m

+--------+-------+-------+-------+---------+----------+----------+
| Mem:   | 3683  | 231   | 3122  | 9       | 329      | 3384     |
| Swap:  | 4047  | 0     | 4047  |         |          |          |

[root@occprod ~]# swapon

NAME       TYPE    SIZE  USED PRIO
/oradata/swap file  2G   0B   -2
/dev/dm-1  partition 2G   0B  -1

[root@occprod ~]# cat /etc/fstab |grep oradata/swap
/oradata/swap swap defaults 0 0

Configure VM server

Create User & Directory

[root@occprod ~]# mkdir -p /pemrep/oracle/product/121
[root@occprod ~]# groupadd dbpemrep
[root@occprod ~]# useradd -g dbpemrep orpemrep -d /pemrep/oracle
[root@occprod ~]# chown -R orpemrep.dbpemrep /oradata
[root@occprod ~]# chown -R orpemrep.dbpemrep /pemrep
[root@occprod ~]# mkdir -p /pemrep/fmw/oms
[root@occprod ~]# mkdir -p /pemrep/fmw/agent
[root@occprod ~]# mkdir -p /pemrep/fmw/swlib
[root@occprod ~]# chown -R orpemrep.dbpemrep /pemrep/fmw

Configure /etc/selinux/config

selinux=disabled

Configure /etc/security/limits.conf

orpemrep soft nproc 4096
orpemrep hard nproc 16384
orpemrep soft nofile 4096
orpemrep hard nofile 65536

Configure /etc/pam.d/login

session required pam_limits.so

Configure /etc/sysctl.conf

fs.file-max = 6815744
kernel.sem = 250 32000 100 128
kernel.shmmni = 4096
kernel.shmall = 1073741824
kernel.shmmax = 439804651104
kernel.panic_on_oops = 1
net.core.mmem_default = 262144
net.core.mmem_max = 4194304
net.core.wmem_default = 262144
net.core.wmem_max = 1048576
net.ipv4.conf.all.rp_filter = 2
net.ipv4.conf.default.rp_filter = 2
fs.aio-max-nr = 1048576
net.ipv4.ip_local_port_range = 11000 65000

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Run preinstall and Verify result

Run preinstall

[root@occprod Packages]# oracle-rdbms-server-12cR1-preinstall-verify
/bin/sed: -e expression #1, char 116: unknown command: `3'
/bin/sed: -e expression #1, char 116: unknown command: `3'
[root@occprod Packages]#
[root@occprod Packages]#

you see above error message, but it's successfully executed.

If you do not want to see the error message, you can modify below two lines in script.

[&lt;root@occprod oracle-rdbms-server-12cR1-preinstall]# diff oracle-rdbms-server-12cR1-preinstall-verify oracle-rdbms-server-12cR1-preinstall-verify.bak
542c542
&lt; ${SED} -i /^#\[[:space:]]*$COMMENT\]/d ${LIMITSFILE}
---
&gt; ${SED} -i /^#\[[:space:]]*$COMMENT\]/d ${LIMITSFILE}
570c570
&lt;           ${SED} -i /^#\[[:space:]]*$COMMENT\]/d ${LIMITSFILE}
---
&gt;           ${SED} -i /^#\[[:space:]]*$COMMENT\]/d ${LIMITSFILE}

[&lt;root@occprod ~]# oracle-rdbms-server-12cR1-preinstall-verify

Verify result

[&lt;root@occprod ~]# cd /var/log/oracle-rdbms-server-12cR1-preinstall/
[&lt;root@occprod oracle-rdbms-server-12cR1-preinstall]# ls -ltr
total 0
drwxr-xr-x. 4 root root 60 Jan 20 15:22 backup
drxw-----. 2 root root 26 Jan 20 15:22 results
[&lt;root@occprod oracle-rdbms-server-12cR1-preinstall]# cd results/
[&lt;root@occprod results]# ls -ltr
total 4
-rw-r--r-- 1 root root 3210 Jan 20 15:22 orakernel.log
[&lt;root@occprod results]# less orakernel.log
Adding group oinstall with gid 54321
groupadd: group 'oinstall' already exists
Adding group dba
groupadd: group 'dba' already exists
User oracle is already present
uid=54321(oracle) gid=20000(oinstall) groups=20000(oinstall),20001(dba),10001(asmdba)
Creating oracle user passed

Verifying kernel parameters as per Oracle recommendations...
fs.file-max is matching with preinstall config.
fs.file-max = 6815744
kernel.sem is matching with preinstall config.
kernell.sem = 250 32000 100 128
kernel.shmmni is matching with preinstall config.
kernell.shmmni = 4096
kernel.shmall is matching with preinstall config.
kernell.shmall = 1073741824
kernel.shmmmax is matching with preinstall config.
kernel.shmmax = 4398046511104
kernel.panic_on_oops is matching with preinstall config.
kernel.panic_on_oops = 1
net.core.rmem_default is matching with preinstall config.
net.core.rmem_default = 262144
net.core.rmem_max is matching with preinstall config.
net.core.rmem_max = 4194304
net.core.wmem_default is matching with preinstall config.
net.core.wmem_default = 262144
net.core.wmem_max is matching with preinstall config.
net.core.wmem_max = 1048576
net.ipv4.conf.all.rp_filter is matching with preinstall config.
net.ipv4.conf.all.rp_filter = 2
net.ipv4.conf.default.rp_filter is matching with preinstall config.
net.ipv4.conf.default.rp_filter = 2
fs.aio-max-nr is matching with preinstall config.
fs.aio-max-nr = 1048576
net.ipv4.ip_local_port_range is matching with preinstall config.
net.ipv4.ip_local_port_range = 11000 65000
Setting kernel parameters as per oracle recommendations...
Altered file /etc/sysctl.conf
Original file backed up at /etc/sysctl.conf.orabackup
Verifying & setting of kernel parameters passed

Setting user limits using /etc/security/limits.d/oracle-rdbms-server-12cR1-preinstall.conf
Verifying oracle user OS limits as per Oracle recommendations...
oracle soft nofile 1024
nofile soft limit is matching with preinstall config.
oracle hard nofile 65536
nofile hard limit is matching with preinstall config.
oracle soft nproc 16384
nproc soft limit is matching with preinstall config.
oracle hard nproc 16384
nproc hard limit is matching with preinstall config.
oracle soft stack 10240
stack soft limit is matching with preinstall config.
oracle hard stack 32768
stack hard limit is matching with preinstall config.
oracle hard memlock 134217728
memlock hard limit is matching with preinstall config.
oracle soft memlock 134217728
memlock soft limit is matching with preinstall config.
Setting oracle user OS limits as per Oracle recommendations...
Altered file /etc/security/limits.d/oracle-rdbms-server-12cR1-preinstall.conf
Original file backed up at /var/log/oracle-rdbms-server-12cR1-preinstall/backup/Jan-20-2016-15-22-18
Verifying & setting of user limits passed

Verifying kernel boot parameters as per Oracle recommendations...
numa=off already present

transparent_hugepage=never already present

Verifying & setting of boot parameters passed

Trying to add NOZEROCONF parameter...
Parameter already present
Setting /etc/sysconfig/network parameters passed

Taking a backup of old config files under /var/log/oracle-rdbms-server-12cR1-preinstall/backup/Jan-20-2016-15-22-18
[root@occprod results]#

Install Database Software only

[root@occprod ~]# xhost +
access control disabled, clients can connect from any host
[root@occprod ~]# su - orpemrep
Last login: Fri Feb 26 15:35:44 CST 2016 on pts/1
-bash-4.2$ export DISPLAY=:0.0
-bash-4.2$ cd /mnt/hgfs/12102/ em13100/
-bash-4.2$ cd /mnt/hgfs/12102/database/
-bash-4.2$ ./runInstaller
bash-4.2$ cd /mnt/hgfs/12102/database/
bash-4.2$ ./runInstaller
Oracle Database 12c Release 1 Installer - Step 1 of 9

Configure Security Updates

- Installation Option
- Grid Installation Options
- Install Type
- Typical installation
- Prerequisite Checks
- Summary
- Install Product
- Finish

Provide your email address to be informed of security issues, install the product and initiate configuration manager View details

Email: [field]
Easier for you if you use your My Oracle Support email address/username.

[checkbox]
I wish to receive security updates via My Oracle Support

My Oracle Support Password: [field]

[button] Next >
The installation of Oracle Database was successful.
Select any of the following install options:

- Create and configure a database
- Install database software only
- Upgrade an existing database
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c
Specify Installation Location

Oracle Database 12c Release 1 Installer - Step 6 of 11

Specify a path to place all Oracle software and configuration-related files installed by this installation owner. This location is the Oracle base directory for the installation owner.

Oracle base: /u01/app/oracle/product

Specify a location for storing Oracle database software files separate from database configuration files in the Oracle base directory. This software directory is the Oracle database home directory.

Software location: /u01/app/oracle/product/12.1.0.2
You are starting your first installation on this host. Specify a directory for installing metadata files (for example, install log files). This directory is called the "inventory directory". The installer automatically sets up subdirectories for each product to contain inventory data. The subdirectory for each product typically requires 150 kilobytes of disk space.

**Inventory Directory:** /pmrep/oracle/orainventory

Specify an operating system group whose members have write permission to the inventory directory (orainventory).

**oracleinventory Group Name:** pmrep
Install Oracle Cloud Control 13c

Oracle Database 12c Release 1 Installer - Step 8 of 12

Privileged Operating System groups

SYS privileges are required to create a database using operating system (OS) authentication. Membership in OS Groups grants the corresponding SYS privilege, e.g., membership in O$DBA grants the O$DBA privilege.

- Database Administrator (O$DBA) group: dba
- Database Operator (O$OPER) group (Optional): screen
- Database Backup and Recovery (O$BACKUPDBA) group: dba
- Data Guard administrative (O$DGDBA) group: dba
- Encryption Key Management administrative (O$KMDBA) group: dba
Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.

Checking Root user consistency...
### Perform Prerequisite Checks

#### Verification Result

Some of the minimum requirements for Installation are not completed. Review and fix the issues listed in the following table, and recheck the system.

<table>
<thead>
<tr>
<th>Checks</th>
<th>Status</th>
<th>Fixable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swap Size</td>
<td>Warning</td>
<td>No</td>
</tr>
<tr>
<td>Hard Limit: maximum open file descriptors</td>
<td>Failed</td>
<td>Yes</td>
</tr>
</tbody>
</table>

This is a prerequisite condition to test whether sufficient total swap space is available on the system.

- **Expected Value**: 2.076GB (200948.0KB)
- **Actual Value**: 1.2GB (122348.0KB)
Install Oracle Cloud Control 13c

```
[root@occprod ~]# /tmp/CVU_12.1.0.2.0_orpemrep/runfixup.sh
All Fix-up operations were completed successfully.
[root@occprod ~]#
[root@occprod ~]#
```
Install Oracle Cloud Control 13c

Perform Prerequisite Checks

Verify the minimum requirements for installation are not completed. Review and fix the issues listed in the following table, and recheck the system.

<table>
<thead>
<tr>
<th>Checks</th>
<th>Status</th>
<th>Fixable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swap Size</td>
<td>Ignored</td>
<td>No</td>
</tr>
</tbody>
</table>

To test whether sufficient total swap space is available on the system, (more details)

**Expected Value**: 2.676 GB (2005940.0KB)
**Actual Value**: 2GB (2097144.0KB)
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c
Run root scripts
[root@occprod ~]# /pemrep/oracle/oraInventory/orainstRoot.sh
Changing permissions of /pemrep/oracle/oraInventory.
Adding read, write permissions for group.
Removing read, write, execute permissions for world.

Changing groupname of /pemrep/oracle/oraInventory to dbpemrep.
The execution of the script is complete.
[root@occprod ~]# /pemrep/oracle/product/121/root.sh
Performing root user operation.

The following environment variables are set as:
    ORACLE_OWNER= orpemrep
    ORACLE_HOME= /pemrep/oracle/product/121

Enter the full pathname of the local bin directory: [/usr/local/bin]:
    Copying dbhome to /usr/local/bin ...
    Copying oraenv to /usr/local/bin ...
    Copying coraenv to /usr/local/bin ...

Creating /etc/oratab file...
Entries will be added to the /etc/oratab file as needed by Database Configuration Assistant when a database is created. Finished running generic part of root script. Now product-specific root actions will be performed.

[root@occprod ~]#

---

Create Database

Download database template for EM

-bash-4.2$ pwd
/pemrep/oracle/product/121/assistants/dbca/templates
-bash-4.2$ cp
/mnt/hgfs/12102/12.1.0.2.0_Database_Template_for_EM13_1_0_0_0_Linux_x64.zip .
-bash-4.2$ ls -ltr

```
total 1219168
-rw-r--r-- 1 orpemrep dbpemrep 11000 Dec 23 2013 New_Database.dbt
-rw-r--r-- 1 orpemrep dbpemrep 2379776 Jul 7 2014 example.dmp
-rw-r--r-- 1 orpemrep dbpemrep 22339584 Jul 7 2014 example01.dfb
-rw-r--r-- 1 orpemrep dbpemrep 178683904 Jul 7 2014 sampleschema.dfb
-rw-r--r-- 1 orpemrep dbpemrep 5333 Jul 7 2014 sampleschema.xml
-rw-r--r-- 1 orpemrep dbpemrep 155189248 Jul 7 2014 pdbseed.dfb
-rw-r--r-- 1 orpemrep dbpemrep 4045 Jul 7 2014 pdbseed.xml
```
Install Oracle Cloud Control 13c

```
-bash-4.2$ unzip 12.1.0.2.0_Database_Template_for_EM13_1_0_0_0Linux_x64.zip
 Archive: 12.1.0.2.0_Database_Template_for_EM13_1_0_0_0Linux_x64.zip
 inflating: set_repo_param_12.1.0.2.0_Database_SQL_for_EM13_1_0_0_0_Large_deployment.sql
 inflating: set_repo_param_12.1.0.2.0_Database_SQL_for_EM13_1_0_0_0_Medium_deployment.sql
 inflating: set_repo_param_12.1.0.2.0_Database_SQL_for_EM13_1_0_0_0_Small_deployment.sql
 inflating: shpool_12.1.0.2.0_Database_Template_for_EM13_1_0_0_0_Large_deployment.sql
 inflating: 12.1.0.2.0_Database_Template_for_EM13_1_0_0_0_Large_deployment.dbc
 inflating: 12.1.0.2.0_Database_Template_for_EM13_1_0_0_0_Medium_deployment.dbc
 inflating: 12.1.0.2.0_Database_Template_for_EM13_1_0_0_0_Small_deployment.dbc
 inflating: 12.1.0.2.0_Database_Template_for_EM13_1_0_0_0.dbc
 inflating: 12.1.0.2.0_Database_Template_for_EM13_1_0_0_0.ctl
-bash-4.2$
```
### Create database with EM template

#### Database Configuration Assistant - Welcome - Step 1 of 6

**Database Operation**

<table>
<thead>
<tr>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Creation Mode</strong></td>
</tr>
<tr>
<td>Prerequisite Checks</td>
</tr>
<tr>
<td>Summary</td>
</tr>
<tr>
<td>Progress Page</td>
</tr>
<tr>
<td>Finish</td>
</tr>
</tbody>
</table>

Select the operation that you want to perform:

- [ ] Create Database
- [ ] Configure Database Options
- [ ] Delete Database
- [ ] Manage Templates
- [ ] Manage Pluggable Databases
Database Configuration Assistant - Create Database - Step 3 of 14

Install Oracle Cloud Control 13c

### Database Template

Templates that include datalines contain pre-created databases. They allow you to create a new database in minutes, as opposed to an hour or more. Use templates without datalines only when necessary, such as when you need to change attributes like block size, which cannot be altered after database creation.

Select a template for your database:

<table>
<thead>
<tr>
<th>Select</th>
<th>Template</th>
<th>Includes Datalines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Purpose or Transaction Processing</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>12.1.0.20 Database Template for OE11.0.0 Large deploy</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>12.1.0.20 Database Template for OE11.0.0 Medium deploy</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>12.1.0.20 Database Template for OE11.0.0 Small deploy</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Custom Database</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Data Warehouse</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Additional Options

- Help
- Previous
- Next
- Finish
- Cancel
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c

Database Configuration Assistant - Create Database - Step 5 of 14

Management Options

- Database Operation
- Creation Mode
- Database Template
- Database Identification
- Management Options
- Database Credentials
- Storage Locations
- Database Options
- Initialization Parameters
- Creation Options
- Prerequisite Checks
- Summary
- Progress Page
- Finish

Specify the management options for the database.

- Configure Enterprise Manager (EM) Database Express
  - EM Database Express Port: 5500

- Register with Enterprise Manager (EM) Cloud Control
  - EM Host:
  - EM Port:
  - EM Admin Username:
  - EM Admin Password:

Help < Back  Next > Finish Cancel
Install Oracle Cloud Control 13c

Database Configuration Assistant - Create Database - Step 6 of 15

Database Credentials

For security reasons, you must specify passwords for the following user accounts in the new database.

- Use Different Administrative Passwords

<table>
<thead>
<tr>
<th>User Name</th>
<th>Password</th>
<th>Confirm Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSTEM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Use the Same Administrative Password for All Accounts

Password: ************
Confirm Password: ************

Messages:
Password: The password entered does not conform to the Oracle recommended standards. A password should have minimum of 8 characters in length. In addition, the password must contain at least one upper case character, one lower case character and one digit.
Install Oracle Cloud Control 13c

Database Configuration Assistant - Create Database - Step 7 of 15

Network Configuration

Listeners from current Oracle home are listed below. To create a new listener in current Oracle home, specify the listener name and port.

Select Listeners:

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Port</th>
<th>Oracle Home</th>
<th>Status</th>
</tr>
</thead>
</table>

- **Create a New Listener**

  - **Listener Name**: pemrep
  - **Listener Port**: 15210
  - Target Oracle Home: /pemrep/oracle/product/121
Amend the memory settings as desired, click on the "Character Sets" tab and select the "AL32UTF8" option and click the "Next" button. In this case I'm accepting the memory defaults.
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c

Database Configuration Assistant - Create Database - Step 10 of 15

Initialization Parameters

Database Operation
Installation Mode
Database Template
Database Identification
Management Options
Database Credentials
Network Configuration
Storage Locations
Database Options

Initialization Parameters

Memory
String
Character Sets
Connection Mode

Use the default
The default character set for this database is based on the language setting of this operating system: WEBMSWINL252.

Use Unicode (AL32UTF8)
Setting character set to Unicode (AL32UTF8) enables you to store multiple language groups.

Choose from the list of character sets
Database Character Set: AL32UTF8 - Unicode UTF-8 Universal character set

National Character Set: AL16UTF16 - Unicode UTF-16 Universal Character set

Default Language: American

Default Territory: United States

All Initialization Parameters...
Install Oracle Cloud Control 13c

Database Configuration Assistant - Create Database - Step 11 of 15

Creation Options

- Database Operation
- Creation Mode
- Database Template
- Database Identification
- Management Options
- Database Credentials
- Network Configuration
- Storage Locations
- Database Options
- Initialization Parameters

Creation Options

- Prerequisite Checks
- Summary
- Progress Page
- Finish

Select the database creation options:

- Create Database

- Save as a Database Template
  - Name: pemrep
  - Description: This is a template created from an existing template - General Purpose

- Generate Database Creation Scripts


Customize Storage Locations

Help  < Back  Next >  Finish  Cancel
Install Oracle Cloud Control 13c

Create Database - Summary

Database Configuration Summary

Global Database Name: peremp
Database Configuration Type: Single Instance
SID: peremp
Create As Container Database: Yes
Storage Type: File System
Memory Configuration Type: Automatic Memory Management
Template Name: General Purpose or Transaction Processing

Database Configuration Details

Database Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle JVM</td>
<td>true</td>
</tr>
<tr>
<td>Oracle Text</td>
<td>true</td>
</tr>
<tr>
<td>Oracle Multimedia</td>
<td>true</td>
</tr>
<tr>
<td>Oracle OLAP</td>
<td>true</td>
</tr>
<tr>
<td>Oracle Spatial</td>
<td>true</td>
</tr>
</tbody>
</table>
Install Oracle Cloud Control 13c

Database Configuration Assistant - Create Database - Step 14 of 15

Progress Page

Clone database "pmapp" creation in progress...

6%

Steps | Status
--- | ---
Copying database files | In Progress
Creating and starting Oracle instance | Complete
Completing Database Creation | Complete

Activity Log  Alert Log

Help  Previous  Next  Finish  Cancel
Install Oracle Cloud Control 13c

-bash-4.2$ lsnrctl status pemrep

LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 20-JAN-2016 23:10:38

Copyright (c) 1991, 2014, Oracle. All rights reserved.

Connecting to

(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=occprod.us.oracle.com)(PORT=10010)))

STATUS of the LISTENER

-----------------------
Alias       pemrep
Version     TNSLSNR for Linux: Version 12.1.0.2.0 - Production
Start Date  20-JAN-2016 23:02:14
Uptime      0 days 0 hr. 8 min. 23 sec
Trace Level off
Security     ON: Local OS Authentication
SNMP         OFF
Listener Parameter File /pemrep/oracle/product/121/network/admin/listener.ora
Listener Log File /pemrep/oracle/product/diag/tnslsnr/occprod/pemrep/alert/log.xml
Listening Endpoints Summary...
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=occprod)(PORT=10010)))

Services Summary...
Service "ohsdba" has 1 instance(s).
Service "pemrep", status READY, has 1 handler(s) for this service...
Service "pemrep" has 1 instance(s).
Service "pemrep", status READY, has 1 handler(s) for this service...
Service "pemrepXDB" has 1 instance(s).
Service "pemrep", status READY, has 1 handler(s) for this service...
The command completed successfully
-bash-4.2$

OMS Install Steps

```
[oracle@occprod ~]$ cd /mnt/hgfs/em13100/
[oracle@occprod em13100]$ ls -l
```
total 6616016
```
-rwxrwxrwx 1 root root 1315250699 Dec 19 15:11 em13100_linux64-2.zip
-rwxrwxrwx 1 root root 2145473190 Dec 19 17:14 em13100_linux64-3.zip
-rwxrwxrwx 1 root root 2141357330 Dec 24 18:57 em13100_linux64-4.zip
-rwxrwxrwx 1 root 331590923 Dec 24 18:47 em13100_linux64-5.zip
-rwxrwxrwx 1 root root 841114290 Dec 19 13:33 em13100_linux64.bin
[oracle@occprod em13100]$ ./em13100_linux64.bin
```
Install Oracle Cloud Control 13c

Software Updates

Oracle Enterprise Manager Cloud Control 13c Installation - Step 2 of 11

My Oracle Support Details

Software Updates

Oracle Inventory
- Prerequisite Checks
- Installation Types
- Installation Details
- Configuration Details
- Shared Location Details
- Review
- Install Progress
- Finish

Search for Updates (Prerequisites, Critical Patches, Interim Patches, Plugins, etc.)

- Local Directory
  - Browse...

My Oracle Support (Requires Internet Connection)
- User Name
- Password

Search for Updates

Messages:
### Prerequisite Checks

Prerequisite checks verify that your environment meets all minimum requirements for installing and configuring your selected product.

<table>
<thead>
<tr>
<th>Prerequisite Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Checking whether the Oracle software being installed is certified</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking whether the required packages are installed on the host</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking whether the required glibc package is installed on the host</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking for sufficient inventory directory space</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking whether the software is compatible with the current operating system</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking timezone settings</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking for the required kernel parameters</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking for sufficient physical memory</td>
<td>Warning</td>
</tr>
<tr>
<td>Checking for sufficient swap space</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking for the LD_ASSUME_KERNEL environment variable</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Checking for the http_proxy environment variable</td>
<td>Succeeded</td>
</tr>
</tbody>
</table>

#### Checking for sufficient physical memory

**Description:**
Checks whether the host has the required physical memory.

- **Expected result:** 10040MB
- **Actual Result:** 2760MB

Check complete. The overall result of this check is: **Failed**

**Recommendation:**
You do not have the required physical memory to perform the install. You need a minimum of 10GB. Arrange for the required physical memory before proceeding any further.
Installation Types

- My Oracle Support Details
- Software Updates
- Prerequisite Checks
- Installation Details
  - Select Plug-ins
  - WebLogic Server Configuration
  - Database Connection Details
  - Enterprise Manager Configuration
  - Shared Location Details
  - Port Configuration Details
  - Review
  - Install Progress
  - Finish

Installation Types

- Create a new Enterprise Manager system
  - Simple
  - Advanced
- Install software only
  (Installs only the software binaries. Allows you to configure or upgrade at a later stage.)

Messages:

Help  < Back  Next >  Install  Cancel
Install Oracle Cloud Control 13c

Oracle Enterprise Manager Cloud Control 13c Installation - Step 6 of 14

Select Plug-ins

Plug-ins provide management capabilities tailored to specific types of targets or solution areas and typically have their own lifecycle independent of the Enterprise Manager core platform. Select the plugins you want to configure.

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oracle Cloud Framework</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Database</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Exadata</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Fusion Middleware</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Systems Infrastructure</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Apache Tomcat</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>IBM DB2 Database</td>
<td>12.1.0.4.0</td>
</tr>
<tr>
<td></td>
<td>Microsoft .Net Framework</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Microsoft Active Directory</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Microsoft IIS</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Microsoft SQL Server Database</td>
<td>12.1.0.6.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Audit Vault</td>
<td>12.1.0.4.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Audit Vault and Database Firewall</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Big Data Appliance</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Cloud Application</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Consolidation Planning and Chargeback</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Engineered System Healthchecks</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Fusion Applications</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle GTacks Healthchecks</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Siebel</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Storage Management Framework</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Virtual Infrastructure</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Virtual Networking</td>
<td>12.1.0.2.0</td>
</tr>
<tr>
<td></td>
<td>Oracle Virtualization</td>
<td>13.1.1.0.0</td>
</tr>
<tr>
<td></td>
<td>Oracle APEX Database</td>
<td>12.1.0.2.0</td>
</tr>
</tbody>
</table>

Help  < Back  Next  Install  Cancel
Install Oracle Cloud Control 13c

WebLogic Server Configuration Details

- WebLogic Domain Name: OCMdomain
- WebLogic User Name: weblogic
- WebLogic Password: ********
- Confirm Password: ********
- Node Manager User Name: nodemanager
- Node Manager Password: ********
- Confirm Password: ********
- OMS Instance Base Location: /emwmp/emw/emw_oms

Messages:
Oracle Enterprise Manager Cloud Control 13c Installation - Step 8 of 14

Database Connection Details

- Database Host Name: occprod
- Port: 1521
- Service/SID: penrep
- SYS Password: *****
- Deployment Size: SMALL

Warning

For the deployment size you have selected, you must have at least 3 GB of physical memory. You currently have only 2 GB of physical memory. This will not cause the installation to fail, but will affect the performance of Enterprise Manager. Either exit the installer, allocate the required memory, and retry the installation, or finish the installation and then allocate the required memory.
Installation Warning:

The following prerequisite check failed because the Oracle Database, where the Management Repository will be configured, does not meet the configuration requirements. These failures do not impact the installation, but you may encounter performance issues with the product later. You can either click Cancel, fix the issue manually now, based on the recommendation offered for this prerequisite, and click Next, or you can click OK to fix it after the installation ends. For more details check the logs: /tmp/Orainstall2016-02-26_08-45-21PM/ormdboreerees

<table>
<thead>
<tr>
<th>Prereq Name</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check the pga_aggregate_target instance parameter value.</td>
<td>The pga_aggregate_target instance parameter should be set to at least 1000000000 bytes.</td>
</tr>
<tr>
<td>Check the sga_target instance parameter value.</td>
<td>The sga_target instance parameter should be set to at least 100000000 bytes.</td>
</tr>
</tbody>
</table>

OK  Cancel
Install Oracle Cloud Control 13c

Enterprise Manager Configuration Details

- My Oracle Support Details
- Software Updates
- Prerequisite Checks
- Installation Types
- Installation Details
- Select Plug-ins
- WebLogic Server Configuration
- Database Connection Details

Enterprise Manager Configuration Details

- Shared Location Details
- Port Configuration Details
- Review
- Install Progress
- Finish

Messages:

SISMAN Password: ********
Confirm Password: ********
Agent Registration Password: ********
Confirm Password: ********

Help  < Back  Next >  Install  Cancel
Install Oracle Cloud Control 13c

Enterprise Manager Shared Location Details

Configure Oracle Software Library

Software Library Location: /u01/app/oracle/cloudcontrol13c

If you are planning to have a multi-OMS setup, then enter a shared location that is accessible from all the OMS instances.

Configure a Shared Location for Oracle BI Publisher

Config Volume

Cluster Volume

Sets up the shared storage for BI Publisher, in preparation for adding an OMS (which will also contain a scaled-out BI Publisher). Adding an OMS will also add a BI Publisher server that will function in a High Availability environment. Therefore, BI Publisher will support both redundancy and scalabilty.

Config volume contains the BI Publisher repository and configuration files.
Cluster volume contains storage required for the BI Publisher scheduler to operate in a HA environment.

Enable BI Publisher

Enable Oracle BI Publisher

Messages:
Configuration of the Enterprise Manager system requires the allocation of several ports to facilitate internal communication between system components and to provide access to the console through a browser. The following table contains the ports that will be allocated, along with the recommended port ranges, for each component. By default, the first available port in the specified port range has been chosen.

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Recommended Port Range</th>
<th>Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Manager Upload Http Port</td>
<td>4889-4898</td>
<td>4889</td>
</tr>
<tr>
<td>Enterprise Manager Upload Http SSL Port</td>
<td>4599-4600</td>
<td>4600</td>
</tr>
<tr>
<td>OHS Http Port</td>
<td>9788, 9791-9800</td>
<td>9788</td>
</tr>
<tr>
<td>BI Publisher Http Port</td>
<td>9701-9702, 9750</td>
<td>9701</td>
</tr>
<tr>
<td>Enterprise Manager Central Console Http SSL Port</td>
<td>7700-7800</td>
<td>7700</td>
</tr>
<tr>
<td>Node Manager Http SSL Port</td>
<td>7401-7500</td>
<td>7403</td>
</tr>
<tr>
<td>BI Publisher Http SSL Port</td>
<td>9801, 9801-9850</td>
<td>9803</td>
</tr>
<tr>
<td>OHS Http SSL Port</td>
<td>9899, 9899-9900</td>
<td>9899</td>
</tr>
<tr>
<td>Managed Server Http Port</td>
<td>7201-7300</td>
<td>7202</td>
</tr>
<tr>
<td>Oracle Management Agent Port</td>
<td>3872, 3872-3874</td>
<td>3872</td>
</tr>
<tr>
<td>Enterprise Manager Central Console Http Port</td>
<td>7700, 7700-7709</td>
<td>7700</td>
</tr>
<tr>
<td>Admin Server Http SSL Port</td>
<td>7301-7300</td>
<td>7302</td>
</tr>
<tr>
<td>Managed Server Http SSL Port</td>
<td>7801-7800</td>
<td>7801</td>
</tr>
</tbody>
</table>
Review the information you have provided, and click install to begin the installation process.

- **Install a new Enterprise Manager system**
  - Source: /mnt/hgfs/em13100stage/products.xml

- **Disk Space**
  - Available: 21.00GB
  - Required: 17.5 GB

- **Installation Location**
  - Oracle Management Service Home: /permrep/ fmw/oms
  - Oracle Management Agent Home: /permrep/fmw/agent/agent_13.1.0.0.0

- **Database Information**
  - Connect String: (DESCRIPTION=ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=))(DESCRIPTION=ADDR

- **Tablespace Information**
  - Management Tablespace: /oradata/permrep/mgmt.dbf
  - Configuration Data Tablespace: /oradata/permrep/mngedcm_datadbf
  - JVM Diagnostics Data Tablespace: /oradata/permrep/mngedcm_datadbf

- **WebLogic Server Information**
  - Domain Name: GCDomain
  - Node Manager User Name: nodemanager
  - WebLogic Domain Home: /permrep/fmw/mydomain
Review the information you have provided, and click install to begin the installation process.

- **WebLogic Server Information**
  - Domain Name: GCCDomain
  - Node Manager User Name: nodeadmin
  - WebLogic Server User Name: weblogic

- **Ports**
  - Enterprise Manager Upload Http Port: 4888
  - Enterprise Manager Upload Http SSL Port: 4889
  - OHS Http Port: 9788
  - BI Publisher Http Port: 9701
  - Enterprise Manager Control Console Http SSL Port: 7803
  - Node Manager Http SSL Port: 7403
  - BI Publisher Http SSL Port: 9803
  - OHS Http SSL Port: 9851
  - Managed Server Http Port: 7202
  - Oracle Management Agent Port: 3872
  - Enterprise Manager Central Console Http Port: 7788
  - Admin Server Http SSL Port: 7302
  - Managed Server Http SSL Port: 7302
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c
Install Oracle Cloud Control 13c

Run allroot.sh
This script will enable OMS autostart

[root@occp ~]# /pemrep/fmw/oms/allroot.sh

Starting to execute allroot.sh ..........
Starting to execute /pemrep/fmw/oms/root.sh ......
/etc exist
Creating /etc/oragchomelist file...
/pemrep/fmw/oms
Finished product-specific root actions.
/etc exist
Finished execution of /pemrep/fmw/oms/root.sh ......

Starting to execute /pemrep/fmw/agent/agent_13.1.0.0.0/root.sh ......
Finished product-specific root actions.
/etc exist
Finished execution of /pemrep/fmw/agent/agent_13.1.0.0.0/root.sh ......
[root@occp ~]#
This information is also available at

/pemrep/fmw/oms/install/setupinfo.txt

See the following for information pertaining to your Enterprise Manager installation:

Use the following URL to access:

1. Enterprise Manager Cloud Control URL: https://occpred:7883/em
2. Admin Server URL: https://occpred:7102/console
3. BI Publisher URL: https://occpred:9809/wmp/server

The following details need to be provided while installing an additional OMS:

1. Admin Server Host Name: occpred
2. Admin Server Port: 7102

You can find the details on ports used by this deployment at:

/pemrep/fmw/oms/install/portlist.ini

NOTE:
An encryption key has been generated to encrypt sensitive data in the Management Repository. If this key is lost, all encrypted data in the Repository becomes unusable.

A backup of the OMS configuration is available in

/pemrep/fmw/jcr_inst/occmg_OMS.backup on host occpred. See Cloud Control Administrators Guide for details on how to back up and recover an OMS.

NOTE: This backup is valid only for the initial OMS configuration. For example, it will not reflect any uninstalled or new OMS changes like the addition of a new OMS or changes to...
Install Oracle Cloud Control 13c

**Oracle Enterprise Manager Cloud Control 13c Installation - Step 14 of 14**

**ORACLE Enterprise Manager Cloud Control 13c**

**Use the following URL to access:**

1. Enterprise Manager Cloud Control URL: https://occpod:7808/em
2. Admin Server URL: https://occpod:7102/console
3. BI Publisher URL: https://occpod:8083/bipserver

**The following details need to be provided while installing an additional OMS:**

1. Admin Server Host Name: occprod
2. Admin Server Port: 7102

You can find the details on ports used by this deployment at:

`/emrep/fmw/oms/install/portlist.ini`

**NOTE:**

An encryption key has been generated to encrypt sensitive data in the Management Repository.

If this key is lost, all encrypted data in the Repository becomes unusable.

A backup of the OMS configuration is available in

`/emrep/fmw/ocmg_instance/OCMG_OMS1/system/backup` on host occprod. See Cloud Control Administrators Guide for details on how to back up and recover an OMS.

**NOTE:** This backup is valid only for the initial OMS configuration. For example, it will not reflect plugins installed later, topology changes like the addition of a load balancer, or changes to other properties made using emctl or emcm. Backups should be created on a regular basis to ensure they capture the current OMS configuration. Use the following command to backup the OMS configuration:

```
/emrep/fmw/oms/bin/emctl exportconfig oms -dir <backup dir>
```
Install Oracle Cloud Control 13c

-bash-4.2$ top

top - 23:16:03 up 2:02, 4 users, load average: 79.62, 27.57, 14.10
Tasks: 310 total, 4 running, 306 sleeping, 0 stopped, 0 zombie
%cpu(s): 19.1 us, 40.4 sy, 0.0 ni, 0.3 id, 25.6 wa, 0.0 hi, 14.5 si, 0.0 st
KiB Mem : 3772036 total, 33544 free, 3056992 used, 682400 buff/cache
KiB Swap: 443144 total, 468736 free, 364808 used, 188232 avail Mem

-bash-4.2$ top

top - 23:16:03 up 2:02, 4 users, load average: 79.63, 27.57, 14.10
Tasks: 310 total, 4 running, 306 sleeping, 0 stopped, 0 zombie
%cpu(s): 19.1 us, 40.4 sy, 0.0 ni, 0.3 id, 25.6 wa, 0.0 hi, 14.5 si, 0.0 st
KiB Mem : 3772036 total, 33544 free, 3056992 used, 682400 buff/cache
KiB Swap: 443144 total, 468736 free, 364808 used, 188232 avail Mem
Install Oracle Cloud Control 13c

Setup Info Summary

This information is also available at:

/pemrep/fmw/oms/install/setupinfo.txt

See the following for information pertaining to your Enterprise Manager installation:

Use the following URL to access:

1. Enterprise Manager Cloud Control URL: https://occprod:7803/em
2. Admin Server URL: https://occprod:7102/console
3. BI Publisher URL: https://occprod:9803/xmlpserver

The following details need to be provided while installing an additional OMS:

1. Admin Server Host Name: occprod
2. Admin Server Port: 7102

You can find the details on ports used by this deployment at: /pemrep/fmw/oms/install/portlist.ini

NOTE:
An encryption key has been generated to encrypt sensitive data in the Management Repository. If this key is lost, all encrypted data in the Repository becomes unusable.

A backup of the OMS configuration is available in
/pemrep/fmw/ge_inst/em/EMGC_OMS1/sysman/backup on host occprod. See Cloud Control Administrators Guide for details on how to back up and recover an OMS.

NOTE: This backup is valid only for the initial OMS configuration. For example, it will not reflect plug-ins installed later, topology changes like the addition of a load balancer, or changes to other properties made using emctl or emcli. Backups should be created on a regular basis to ensure they capture the current OMS configuration. Use the following command to backup the OMS configuration:
/pemrep/fmw/oms/bin/emctl exportconfig oms -dir <backup dir>

**OMS and Agent Status**

`-bash-4.2$ /pemrep/fmw/oms/bin/emctl status oms -details`
Oracle Enterprise Manager Cloud Control 13c Release 1
Copyright (c) 1996, 2015 Oracle Corporation. All rights reserved.
Enter Enterprise Manager Root (SYSMAN) Password :
Console Server Host        : occprod
HTTP Console Port          : 7788
HTTPS Console Port         : 7803
HTTP Upload Port           : 4889
HTTPS Upload Port          : 4903
EM Instance Home           : /pemrep/fmw/gc_inst/em/EMGC_OMS1
OMS Log Directory Location : /pemrep/fmw/gc_inst/em/EMGC_OMS1/sysman/log
OMS is not configured with SLB or virtual hostname
Agent Upload is locked.
OMS Console is locked.
Active CA ID: 1
Console URL: https://occprod:7803/em
Upload URL: https://occprod:4903/empbs/upload

**WLS Domain Information**
Domain Name : GCDomain
Admin Server Host      : occprod
Admin Server HTTPS Port: 7102
Admin Server is RUNNING

**Oracle Management Server Information**
Managed Server Instance Name: EMGC_OMS1
Oracle Management Server Instance Host: occprod
WebTier is Up
Oracle Management Server is Up
JVMD Engine is Up

**BI Publisher Server Information**
BI Publisher Managed Server Name: BIP
BI Publisher Server is Up
BI Publisher HTTP Managed Server Port : 9701
BI Publisher HTTPS Managed Server Port : 9803
BI Publisher HTTP OHS Port : 9788
BI Publisher HTTPS OHS Port : 9851
BI Publisher is locked.
BI Publisher Server named 'BIP' running at URL: https://occprod:9851/xmlpserver
BI Publisher Server Logs: /pemrep/fmw/gc_inst/user_projects/domains/GCDomain/servers/BIP/logs/
BI Publisher Log : /pemrep/fmw/gc_inst/user_projects/domains/GCDomain/servers/BIP/logs/bipublisher/bipublisher.log

`-bash-4.2$ /pemrep/fmw/agent/agent_inst/bin/emctl status agent`
Oracle Enterprise Manager Cloud Control 13c Release 1
Copyright (c) 1996, 2015 Oracle Corporation. All rights reserved.

Agent Version : 13.1.0.0.0
OMS Version : 13.1.0.0.0
Install Oracle Cloud Control 13c

Protocol Version : 12.1.0.1.0
Agent Home : /pemrep/fmw/agent/agent_inst
Agent Binaries : /pemrep/fmw/agent/agent_13.1.0.0.0
Core JAR Location : /pemrep/fmw/agent/agent_13.1.0.0.0/jlib
Agent Process ID : 21060
Parent Process ID : 20906
Agent URL : https://occprod:3872/emd/main/
Local Agent URL in NAT : https://occprod:3872/emd/main/
Repository URL : https://occprod:4903/empbs/upload
Started at : 2016-03-02 13:05:22
Started by user : orpemrep
Operating System : Linux version 3.8.13-98.7.1.el7uek.x86_64 (amd64)
Number of Targets : 33
Last Reload : (none)
Last successful upload : 2016-03-02 13:18:12
Last attempted upload : 2016-03-02 13:19:55
Total Megabytes of XML files uploaded so far : 1.15
Number of XML files pending upload : 14
Size of XML files pending upload(MB) : 0.01
Available disk space on upload filesystem : 24.55%
Collection Status : Collections enabled
Heartbeat Status : Ok
Last attempted heartbeat to OMS : 2016-03-02 13:19:21
Last successful heartbeat to OMS : 2016-03-02 13:18:20
Next scheduled heartbeat to OMS : 2016-03-02 13:19:21

Agent is Running and Ready
-bash-4.2$

Install log

-bash-4.2$ ./em13100_linux64.bin
0%...............................................................100%
Launcher log file is /tmp/OraInstall2016-03-01_09-24-09PM/launcher2016-03-01_09-24-09PM.log.
Starting Oracle Universal Installer
Checking if CPU speed is above 300 MHz. Actual 2594.019 MHz Passed
Checking monitor: must be configured to display at least 256 colors. Actual 16777216 Passed
Checking swap space: must be greater than 512 MB. Actual 4047 MB Passed
Checking if this platform requires a 64-bit JVM. Actual 64 Passed (64-bit not required)
Checking temp space: must be greater than 300 MB. Actual 21617 MB Passed

Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2016-03-01_09-24-09PM
----Prereq Config Location main----
/tmp/OraInstall2016-03-01_09-24-09PM/stage/prereq
EMGCInstaller args -scratchPath
EMGCInstaller args /tmp/OraInstall2016-03-01_09-24-09PM/stage/prereq
EMGCInstaller args -sourceType
EMGCInstaller args network
EMGCInstaller args -timestamp
EMGCInstaller args 2016-03-01_09-24-09PM
EMGCInstaller args -paramFile
EMGCInstaller args /tmp/sfx_bvr0OQ/Disk1/install/linux64/oraparam.ini
EMGCInstaller args -nocleanUpOnExit
DiskLoc inside SourceLoc/mnt/hgfs/em13100
EMFileLoc:/tmp/OraInstall2016-03-01_09-24-09PM/oui/em/
ScratchPathValue:/tmp/OraInstall2016-03-01_09-24-09PM
ConfigSharedLocation : shareLocationForBIP.isSelectedtrue
ConfigSharedLocation : bipConfigText
ConfigSharedLocation : bipClusterText
hostname instantiation HOSTNAME=occprod
hostname instantiation ADMIN_SERVER_HOSTNAME=occprod
hostname instantiation MANAGED_SERVER_HOSTNAME=occprod
hostname instantiation s_hostname=occprod

Installation in progress (Tuesday, March 1, 2016 9:32:43 PM CST) 98% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:32:44 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:32:44 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:32:44 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:32:45 PM CST)

Installation in progress (Tuesday, March 1, 2016 9:33:12 PM CST) 98% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:33:13 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:33:13 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:33:13 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:33:14 PM CST)

Installation in progress (Tuesday, March 1, 2016 9:33:24 PM CST) 98% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:33:24 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:33:24 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:33:24 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:33:25 PM CST)

Installation in progress (Tuesday, March 1, 2016 9:33:48 PM CST) 98% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:33:49 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:33:49 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:33:49 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:33:51 PM CST)

............................................................

Installation in progress (Tuesday, March 1, 2016 9:33:58 PM CST)
98% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:33:59 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:33:59 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:33:59 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:34:00 PM CST)

............................................................

Installation in progress (Tuesday, March 1, 2016 9:34:03 PM CST)
98% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:34:03 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:34:03 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:34:03 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:34:05 PM CST)

............................................................

Installation in progress (Tuesday, March 1, 2016 9:34:06 PM CST)
84% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:34:06 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:34:06 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:34:06 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:34:07 PM CST)

............................................................

Installation in progress (Tuesday, March 1, 2016 9:34:11 PM CST)
98% Done.
Install successful

Linking in progress (Tuesday, March 1, 2016 9:34:11 PM CST)
Link successful
Install Oracle Cloud Control 13c

Setup in progress (Tuesday, March 1, 2016 9:34:11 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:34:11 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:34:12 PM CST)

..............................................................
.......
Installation in progress (Tuesday, March 1, 2016 9:34:13 PM CST)
96% Done.

Install successful

Linking in progress (Tuesday, March 1, 2016 9:34:13 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:34:13 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:34:13 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:34:14 PM CST)

..............................................................
.......
Installation in progress (Tuesday, March 1, 2016 9:34:15 PM CST)
72% Done.

Install successful

Linking in progress (Tuesday, March 1, 2016 9:34:16 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:34:16 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:34:16 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:34:17 PM CST)

..............................................................
.......
Installation in progress (Tuesday, March 1, 2016 9:34:18 PM CST)
94% Done.

Install successful

Linking in progress (Tuesday, March 1, 2016 9:34:18 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:34:18 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:34:18 PM CST)
Saving inventory complete

End of install phases. (Tuesday, March 1, 2016 9:34:19 PM CST)

..............................................................
.......
Installation in progress (Tuesday, March 1, 2016 9:34:20 PM CST)
77% Done.

Install successful

Linking in progress (Tuesday, March 1, 2016 9:34:20 PM CST)
Link successful

Setup in progress (Tuesday, March 1, 2016 9:34:20 PM CST)
Setup successful

Saving inventory (Tuesday, March 1, 2016 9:34:20 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:34:21 PM CST)

.................................................................

Installation in progress (Tuesday, March 1, 2016 9:34:22 PM CST)
92% Done.
Install successful
Linking in progress (Tuesday, March 1, 2016 9:34:22 PM CST)
Link successful
Setup in progress (Tuesday, March 1, 2016 9:34:22 PM CST)
Setup successful
Saving inventory (Tuesday, March 1, 2016 9:34:22 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:34:24 PM CST)

.................................................................

Installation in progress (Tuesday, March 1, 2016 9:34:25 PM CST)
81% Done.
Install successful
Linking in progress (Tuesday, March 1, 2016 9:34:25 PM CST)
Link successful
Setup in progress (Tuesday, March 1, 2016 9:34:25 PM CST)
Setup successful
Saving inventory (Tuesday, March 1, 2016 9:34:25 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:34:26 PM CST)

.................................................................

Installation in progress (Tuesday, March 1, 2016 9:34:27 PM CST)
98% Done.
Install successful
Linking in progress (Tuesday, March 1, 2016 9:34:27 PM CST)
Link successful
Setup in progress (Tuesday, March 1, 2016 9:34:27 PM CST)
Setup successful
Saving inventory (Tuesday, March 1, 2016 9:34:27 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:34:28 PM CST)

.................................................................

Installation in progress (Tuesday, March 1, 2016 9:34:29 PM CST)
72% Done.
Install successful
Linking in progress (Tuesday, March 1, 2016 9:34:30 PM CST)
Link successful
Setup in progress (Tuesday, March 1, 2016 9:34:30 PM CST)
Setup successful
Saving inventory (Tuesday, March 1, 2016 9:34:30 PM CST)
Saving inventory complete
End of install phases. (Tuesday, March 1, 2016 9:34:31 PM CST)
OMS OracleHome : /pemrep/fmw/oms
13NGCBEKAGGREGATE : oracle.sysman.top.agent
Install Oracle Cloud Control 13c

13NGCHEKAGGREGATE : oracle.sysman.top.oms
13NGCHEKAGGREGATE : encap_oms
13NGCHEKAGGREGATE : OuiConfigVariables
13NGCHEKAGGREGATE : OuiConfigVariables

Getting Inet Addresses for host occprod.us.oracle.com
** Agent Port Check completed successfully.**
Logs successfully copied to /pemrep/oracle/oraInventory/logs.

Start/Stop operations

.bash_profile
export ORACLE_BASE=/pemrep/oracle/product
export ORACLE_HOME=$ORACLE_BASE/121
export ORACLE_SID=pemrep
export PATH=$ORACLE_HOME/bin:$PATH:
export ORACLE_HOME=/pemrep/oracle/product/121
export OMS_HOME=/pemrep/fmw/oms
export AGENT_HOME=/pemrep/fmw/agent/agent_13.1.0.0.0

Start DB/OMS/Agent
$ORACLE_HOME/bin/dbstart $ORACLE_HOME
$OMS_HOME/bin/emctl start oms
$AGENT_HOME/bin/emctl start agent

Stop OMS/Agent/DB
$OMS_HOME/bin/emctl stop oms -all
$AGENT_HOME/bin/emctl stop agent
$ORACLE_HOME/bin/dbshut $ORACLE_HOME

Disable OMS Autostart
[root@occprod ~]# cd /etc/rc.d/init.d/
[root@occprod init.d]# ls -l|grep gc
-rw-r-x--- 1 root root 1751 Mar  1 23:16 gcstartup
-rw-r-x--- 1 root root 128 Mar  1 23:16 lockgcstartup
-rw-r-x--- 1 root root  83 Mar  1 23:16 unlockgcstartup
[root@occprod init.d]# pwd
/etc/rc.d/init.d
[root@occprod init.d]# mv gcstartup gcstartup.bak
[root@occprod init.d]# ls -l|grep gc
-rw-r-x--- 1 root root 1751 Mar  1 23:16 gcstartup.bak
-rw-r-x--- 1 root root 128 Mar  1 23:16 lockgcstartup
-rw-r-x--- 1 root root  83 Mar  1 23:16 unlockgcstartup
[root@occprod init.d]#
Install Oracle Cloud Control 13c

[root@occprod init.d]# cat lockgcstartup
#!/bin/sh
if [ -d /var/lock/subsys ]; then
touch /var/lock/subsys/gcstartup
touch /var/lock/subsys/unlockgcstartup
fi
[root@occprod init.d]# cat unlockgcstartup
#!/bin/sh
rm -f /var/lock/subsys/gcstartup
rm -rf /var/lock/subsys/unlockgcstartup
[root@occprod init.d]#

Emcc 13c login page

![Enterprise Manager Cloud Control 13c login page](image-url)
Oracle Enterprise Manager provides central management of your entire Oracle environment. Note that usage of certain product features requires separate licenses for Oracle Enterprise Manager Management Packs. You can enable or disable access to Management Pack features to stay compliant with your license terms. This can be done for individual targets, or you can use batch update to enable or disable management packs for all targets of a specific type.

Management Pack features can be accessed through Oracle Enterprise Manager Cloud Control browser interface, EMCLI (Enterprise Manager Command-line Interface) as well as through APIs provided with Oracle Database software. Access with any of these methods requires appropriate Management Pack license. For detailed information on the functionality contained within these packs, please refer to the Oracle Database Licensing Information document, the Oracle Application Server Licensing Information document, or the Oracle Enterprise Manager Licensing Information document.