

# Oracle Enterprise Manager Cloud Control 13c

Download the following software:

- [Oracle Linux 7 \(x86\\_64\)](#)
- [Oracle Database \(x86\\_64\) 12c, 18c or 19c Enterprise Edition](#)
- [Enterprise Manager Cloud Control 13c Release 3 \(13.3.0.0\) \(x86\\_64\)](#)

## OS Installation

Install Oracle Linux 7. Choose "Server with a GUI" during installation.

Do the following as root.

### 1. Install required packages

```
yum install oracle-database-server-12cR2-preinstall -y
yum install wget -y
yum install make -y
yum install binutils -y
yum install gcc -y
yum install libaio -y
yum install glibc-common -y
yum install libstdc++ -y
yum install sysstat -y
yum install glibc -y
yum install glibc-devel.i686 -y
yum install glibc-devel -y
yum install libXtst -y
```

### 2. Create the directory structures

```
mkdir -p /u01/app/oracle/product/12.2.0.1/db_1
mkdir -p /u01/app/oracle/middleware
```

```
mkdir -p /u01/app/oracle/agent
mkdir -p /u01/tmp
mkdir -p /u01/oradata
chown -R oracle:oinstall /u01
chmod -R 775 /u01
```

## Database Installation

Do the following as the oracle user

1. Create a scripts directory.

```
mkdir /home/oracle/scripts
```

2. Create `/home/oracle/scripts/setEnv.sh` with the following contents:

```
export TMP=/tmp
export TMPDIR=$TMP

export ORACLE_HOSTNAME=oraem.servers-farm.io
export ORACLE_UNQNAME=emcdb
export ORACLE_BASE=/u01/app/oracle
export ORACLE_HOME=$ORACLE_BASE/product/12.2.0.1/db_1
export ORACLE_SID=emcdb

export PATH=/usr/sbin:/usr/local/bin:$PATH
export PATH=$ORACLE_HOME/bin:$PATH

export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export CLASSPATH=$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib

export OMS_HOME=/u01/app/oracle/middleware
export AGENT_HOME=/u01/app/oracle/agent/agent_inst

export MW_HOME=${ORACLE_BASE}/middleware
export OMS_HOME=${MW_HOME}
export GC_INST=${ORACLE_BASE}/gc_inst
export AGENT_BASE=${ORACLE_BASE}/agent
```

3. Add the new script to your bash profile.

```
echo ". /home/oracle/scripts/setEnv.sh" >> /home/oracle/.bash_profile
```

#### 4. Create a software folder and unzip the database.zip download in it.

```
mkdir /u01/software/  
cd /u01/software  
unzip ~/odb12c.zip  
cd database
```

#### 5. Run the silent database install.

```
./runInstaller -ignorePrereq -waitforcompletion -silent \
  -responseFile /u01/software/database/response/db_install.rsp \
  oracle.install.option=INSTALL_DB_SWONLY \
  ORACLE_HOSTNAME=${HOSTNAME} \
  UNIX_GROUP_NAME=oinstall \
  INVENTORY_LOCATION=/u01/app/oraInventory \
  SELECTED_LANGUAGES=en,en_US \
  ORACLE_HOME=${ORACLE_HOME} \
  ORACLE_BASE=${ORACLE_BASE} \
  oracle.install.db.InstallEdition=EE \
  oracle.install.db.OSDBA_GROUP=dba \
  oracle.install.db.OSBACKUPDBA_GROUP=dba \
  oracle.install.db.OSDGDBA_GROUP=dba \
  oracle.install.db.OSKMDBA_GROUP=dba \
  oracle.install.db.OSRACDBA_GROUP=dba \
  SECURITY_UPDATES_VIA_MYORACLESUPPORT=false \
  DECLINE_SECURITY_UPDATES=true
```

#### 6. Start the listener

```
lsnrctl start
```

#### 7. Create the repository database

```
dbca -silent -createDatabase \
  -templateName General_Purpose.dbc \
  -gdbname emcdb -sid emcdb -responseFile NO_VALUE \
  -characterSet AL32UTF8 \
  -sysPassword SysAdminpW1 \
  -systemPassword SysAdminpW1 \
```

```

-createAsContainerDatabase true \
-numberOfPDBs 1 \
-pdbName emrep \
-pdbAdminPassword SysAdminPW1 \
-databaseType MULTIPURPOSE \
-automaticMemoryManagement false \
-totalMemory 2000 \
-storageType FS \
-datafileDestination /u01/oradata \
-redoLogFileSize 50 \
-emConfiguration NONE \
-ignorePreReqs

```

8. Set the pluggable database to auto-start.

```

sqlplus / as sysdba <<EOF
alter system set db_create_file_dest='/u01/oradata';
alter pluggable database emrep save state;

-- Recommended settings
alter system set "_allow_insert_with_update_check"=true scope=both;
alter system set session_cached_cursors=200 scope=spfile;
alter system set sga_target=800M scope=both;
alter system set pga_aggregate_target=450M scope=both;

-- For 12.1.0.2
alter system set optimizer_adaptive_features=false scope=both;
exit;
EOF

```

## Enterprise Manager Installation

Do the following as the oracle user.

1. Follow the extraction guide downloaded with the EM files. Place all of the files in /u01/software/em.

- 2, Setup the environment

```
export ORA_INVENTORY=/u01/app/oraInventory
export PDB_NAME=emrep
export SYS_PASSWORD=SysAdminpW1
export UNIX_GROUP_NAME=oinstall
export MW_HOME=${ORACLE_BASE}/middleware
export OMS_HOME=${MW_HOME}
export GC_INST=${ORACLE_BASE}/gc_inst
export AGENT_BASE=${ORACLE_BASE}/agent
export WLS_USERNAME=weblogic
export WLS_PASSWORD=SysAdminpW1
export SYSMAN_PASSWORD=${WLS_PASSWORD}
export AGENT_PASSWORD=${WLS_PASSWORD}
export SOFTWARE_LIBRARY=${ORACLE_BASE}/swlib
export DATABASE_HOSTNAME=localhost
export LISTENER_PORT=1521
export SOFTWARE_DIR=/u01/software/em
```

2. Change to the software directory and create a response file.

```
cat > /tmp/install.rsp <<EOF
RESPONSEFILE_VERSION=2.2.1.0.0
UNIX_GROUP_NAME=${UNIX_GROUP_NAME}
INVENTORY_LOCATION=${ORA_INVENTORY}
SECURITY_UPDATES_VIA_MYORACLESUPPORT=false
DECLINE_SECURITY_UPDATES=true
INSTALL_UPDATES_SELECTION=skip
ORACLE_MIDDLEWARE_HOME_LOCATION=${MW_HOME}
ORACLE_HOSTNAME=${ORACLE_HOSTNAME}
AGENT_BASE_DIR=${AGENT_BASE}
WLS_ADMIN_SERVER_USERNAME=${WLS_USERNAME}
WLS_ADMIN_SERVER_PASSWORD=${WLS_PASSWORD}
WLS_ADMIN_SERVER_CONFIRM_PASSWORD=${WLS_PASSWORD}
NODE_MANAGER_PASSWORD=${WLS_PASSWORD}
NODE_MANAGER_CONFIRM_PASSWORD=${WLS_PASSWORD}
ORACLE_INSTANCE_HOME_LOCATION=${GC_INST}
CONFIGURE_ORACLE_SOFTWARE_LIBRARY=true
SOFTWARE_LIBRARY_LOCATION=${SOFTWARE_LIBRARY}
DATABASE_HOSTNAME=${DATABASE_HOSTNAME}
LISTENER_PORT=${LISTENER_PORT}
SERVICENAME_OR_SID=${PDB_NAME}
```

```
SYS_PASSWORD=${SYS_PASSWORD}
SYSMAN_PASSWORD=${SYSMAN_PASSWORD}
SYSMAN_CONFIRM_PASSWORD=${SYSMAN_PASSWORD}
DEPLOYMENT_SIZE=SMALL
AGENT_REGISTRATION_PASSWORD=${AGENT_PASSWORD}
AGENT_REGISTRATION_CONFIRM_PASSWORD=${AGENT_PASSWORD}
PLUGIN_SELECTION={}
b_upgrade=false
EM_INSTALL_TYPE=NOSEED
CONFIGURATION_TYPE=LATER
CONFIGURE_SHARED_LOCATION_BIP=false
EOF
```

### 3. Run the installer.

```
./em13300_linux64.bin -silent -responseFile /tmp/install.rsp -J-Djava.io.tmpdir=/u01/tmp/
```

### 4. The the end of a successful install, run the root script.

```
sh ${MW_HOME}/allroot.sh
```

### 5. Create the the configuration response file..

```
cat > /tmp/config.rsp <<EOF
RESPONSEFILE_VERSION=2.2.1.0.0
UNIX_GROUP_NAME=${UNIX_GROUP_NAME}
INVENTORY_LOCATION=${ORA_INVENTORY}
SECURITY_UPDATES_VIA_MYORACLESUPPORT=false
DECLINE_SECURITY_UPDATES=true
INSTALL_UPDATES_SELECTION=skip
ORACLE_MIDDLEWARE_HOME_LOCATION=${MW_HOME}
ORACLE_HOSTNAME=${ORACLE_HOSTNAME}
AGENT_BASE_DIR=${AGENT_BASE}
WLS_ADMIN_SERVER_USERNAME=${WLS_USERNAME}
WLS_ADMIN_SERVER_PASSWORD=${WLS_PASSWORD}
WLS_ADMIN_SERVER_CONFIRM_PASSWORD=${WLS_PASSWORD}
NODE_MANAGER_PASSWORD=${WLS_PASSWORD}
NODE_MANAGER_CONFIRM_PASSWORD=${WLS_PASSWORD}
ORACLE_INSTANCE_HOME_LOCATION=${GC_INST}
CONFIGURE_ORACLE_SOFTWARE_LIBRARY=true
SOFTWARE_LIBRARY_LOCATION=${SOFTWARE_LIBRARY}
```

```
DATABASE_HOSTNAME=${DATABASE_HOSTNAME}
LISTENER_PORT=${LISTENER_PORT}
SERVICENAME_OR_SID=${PDB_NAME}
SYS_PASSWORD=${SYS_PASSWORD}
SYSMAN_PASSWORD=${SYSMAN_PASSWORD}
SYSMAN_CONFIRM_PASSWORD=${SYSMAN_PASSWORD}
DEPLOYMENT_SIZE=SMALL
AGENT_REGISTRATION_PASSWORD=${AGENT_PASSWORD}
AGENT_REGISTRATION_CONFIRM_PASSWORD=${AGENT_PASSWORD}
PLUGIN_SELECTION={}
b_upgrade=false
EM_INSTALL_TYPE=NOSEED
CONFIGURATION_TYPE=ADVANCED
CONFIGURE_SHARED_LOCATION_BIP=false
EOF
```

6. Run the configuration. This will take a very long time.

```
${MW_HOME}/sysman/install/ConfigureGC.sh -silent -responseFile /tmp/config.rsp
```

At the end of the installation you'll be provided a list of URLs and post-installation steps.

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Revision #2

Created 27 January 2020 22:11:23 by Michael Cleary

Updated 6 February 2024 13:25:52 by Michael Cleary