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Oracle Enterprise Manager Cloud Control 13c Release 5 (13.5) Silent Installation on Oracle Linux 8

This article describes the silent installation of Oracle Enterprise Manager Cloud Control 13c Release 5 (13.5) on Oracle Linux 8 (x86_64). Your requirements may be different, so this is not a replacement for reading the [documentation](#).

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Related articles.

- [Oracle Enterprise Manager Cloud Control 13c Post-Installation Setup Tasks](#)

TL;DR

There is an automated Vagrant build for Cloud Control 13c available [here](#).

Software

Download the following software:

- [Oracle Linux 8 \(x86_64\)](#)
- [Oracle Database \(x86_64\) 19c Enterprise Edition](#)
- [Enterprise Manager Cloud Control 13c Release 5 \(13.5.0.0\) \(x86_64\)](#)

OS Installation

Install Oracle Linux (OL) in the same way you would for a regular Oracle Database installation. You can see examples of this type of installation below. Remember to check database installation article (listed below) for the specific package group selection. These Linux installations articles are generic, not specific for Cloud Control.

- [Oracle Linux 8.x Installation](#)

During this installation I used a virtual machine with 10G RAM (more would be better) and 100G disk space. The swap size was set at 8G, the firewall was disabled and SELinux was set to permissive.

Database Installation (Software-Only)

Install the 19c database along with the latest release update patches if you have access to them, but the installation will work with the base release. For this installation you will install 19c on Oracle Linux 8.

- [Oracle Database 19c Installation On Oracle Linux 8 \(OL8\)](#)

Here is a brief example of a silent installation from the "oracle" user.

```
# 19c
cd $ORACLE_HOME
unzip LINUX.X64_193000_db_home.zip

export ORACLE_HOSTNAME=${HOSTNAME}
export ORACLE_BASE=/u01/app/oracle
export ORACLE_HOME=${ORACLE_BASE}/product/19.0.0/dbhome_1
export ORA_INVENTORY=/u01/app/oraInventory

# Fake OL7. If you pre-patch the software you don't need this.
export CV_ASSUME_DISTID=OEL7.6

${ORACLE_HOME}/runInstaller -ignorePrereq -waitforcompletion -silent \
  -responseFile ${ORACLE_HOME}/install/response/db_install.rsp \
  oracle.install.option=INSTALL_DB_SWONLY \
  ORACLE_HOSTNAME=${ORACLE_HOSTNAME} \
  UNIX_GROUP_NAME=oinstall \
  INVENTORY_LOCATION=${ORA_INVENTORY} \
  SELECTED_LANGUAGES=en,en_GB \
  ORACLE_HOME=${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
```



Run the root scripts when prompted.

The documentation says you should apply the latest database patches, but the installation works without them, so you can still try it out even if you don't have a MOS account.

The installation documentation says the following packages are necessary for the Cloud Control installation. If you have performed the database installation as described in one of the above articles, many of these prerequisites will already have been met.

```
# OLS Packages
dnf install -y binutils
dnf install -y gcc
dnf install -y gcc-c++
dnf install -y glibc
dnf install -y glibc-devel
dnf install -y glibc-devel.i686
dnf install -y libaio
dnf install -y libaio-devel
dnf install -y libgcc
dnf install -y libstdc++
dnf install -y libstdc++-devel
dnf install -y libnsl
dnf install -y sysstat
dnf install -y motif
dnf install -y motif-devel
dnf install -y redhat-lsb
dnf install -y redhat-lsb-core
dnf install -y openssl
dnf install -y make
```

The database software installation is now complete.

Repository Database Creation

Create a database to hold the repository.

- As mentioned above, database version 19c Enterprise Edition is used for this installation.
- You can use a Non-CDB database, or a PDB. Here we are using a CDB called "emcdb" and a PDB called "emrep".
- Character set AL32UTF8.
- Set "_allow_insert_with_update_check"=true.
- There are some minimum recommended settings listed in the example database creation below. They work, but for something real you shouldn't set them this low.

You can create the database using the DBCA in interactive mode, but it's easier to do it silently.

```
lsnrctl start

mkdir -p /u01/oradata

export ORACLE_SID=emcdb
export SYS_PASSWORD="SysPassword1"
export PDB_NAME="emrep"
export PDB_PASSWORD="PdbPassword1"
export DATA_DIR=/u01/oradata

dbca -silent -createDatabase \
  -templateName General_Purpose.dbc \
  -gdbname ${ORACLE_SID} -sid ${ORACLE_SID} -responseFile NO_VALUE \
  -characterSet AL32UTF8 \
  -sysPassword ${SYS_PASSWORD} \
  -systemPassword ${SYS_PASSWORD} \
  -createAsContainerDatabase true \
  -numberOfPDBs 1 \
  -pdbName ${PDB_NAME} \
  -pdbAdminPassword ${PDB_PASSWORD} \
  -databaseType MULTIPURPOSE \
  -memoryMgmtType auto_sga \
  -totalMemory 2048 \
  -storageType FS \
  -datafileDestination "${DATA_DIR}" \
  -redoLogFileSize 600 \
  -emConfiguration NONE \
  -ignorePreReqs

# Set the PDB to auto-start.
sqlplus / as sysdba <<EOF
alter system set db_create_file_dest='${DATA_DIR}';
alter pluggable database ${PDB_NAME} save state;

-- Recommended minimum settings.
alter system set "_allow_insert_with_update_check"=true scope=both;
alter system set session_cached_cursors=200 scope=spfile;

-- Recommended: processes=600
alter system set processes=600 scope=spfile;

-- Recommended: pga_aggregate_target=1G
alter system set pga_aggregate_target=450M scope=spfile;
```

```

-- Recommended: sga_target=3G
alter system set sga_target=800M scope=spfile;

-- Recommended: shared_pool_size=600M
--alter system set shared_pool_size=600M scope=spfile;

SHUTDOWN IMMEDIATE;
STARTUP;

exit;
EOF

# Set restart flag in /etc/oratab.
cp /etc/oratab /tmp
sed -i -e "s|${ORACLE_SID}|${ORACLE_HOME}:N|${ORACLE_SID}|:${ORACLE_HOME}:Y|g" /tmp/oratab
cp -f /tmp/oratab /etc/oratab

```

You now have a database for use as the repository.

Cloud Control 13c Silent Installation

Make the following directories to hold the management server and agent. There are some restrictions on the possible path lengths, so don't make the directory structure too deep, especially for Windows installations.

```

$ mkdir -p /u01/app/oracle/middleware
$ mkdir -p /u01/app/oracle/agent

```

You can generate the base response files using the following command. These can provide inspiration. They are very big and full of comment about the parameters, so I never use them for the actual installation.

```

${SOFTWARE_DIR}/em13500_linux64.bin -getResponseFileTemplates -outputLoc /tmp/

```

Create a response file for the installation process.

```

# Set parameters.
ORACLE_BASE=/u01/app/oracle
UNIX_GROUP_NAME=oinstall
ORA_INVENTORY=/u01/app/oraInventory
MW_HOME=${ORACLE_BASE}/middleware
ORACLE_HOSTNAME=${HOSTNAME}
AGENT_BASE=${ORACLE_BASE}/agent
WLS_USERNAME=weblogic
WLS_PASSWORD=welcome1
GC_INST=${ORACLE_BASE}/gc_inst
SOFTWARE_LIBRARY=${ORACLE_BASE}/swlib
DATABASE_HOSTNAME=localhost
LISTENER_PORT=1521
PDB_NAME=emrep
SYS_PASSWORD=SysPassword1
AGENT_PASSWORD=${WLS_PASSWORD}
ORACLE_SID=emcdb
DATA_DIR=/u01/oradata
OMS_HOME=${MW_HOME}
SYSMAN_PASSWORD=${WLS_PASSWORD}
SOFTWARE_DIR=/u01/software

# Create 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
MANAGEMENT_TABLESPACE_LOCATION=${DATA_DIR}/${ORACLE_SID^^}/${PDB_NAME}/mgmt.dbf
CONFIGURATION_DATA_TABLESPACE_LOCATION=${DATA_DIR}/${ORACLE_SID^^}/${PDB_NAME}/mgmt_ecm_depot1.dbf
JVM_DIAGNOSTICS_TABLESPACE_LOCATION=${DATA_DIR}/${ORACLE_SID^^}/${PDB_NAME}/mgmt_deepdive.dbf
EOF

```

Start the silent software-only installation by running the "em13500_linux64.bin" file, making sure the CLASSPATH is unset.

```

unset CLASSPATH
${SOFTWARE_DIR}/em13500_linux64.bin -silent -responseFile /tmp/install.rsp

```

If you have limited space in your "/tmp" location, you can provide an alternative location for temporary files.

```

mkdir -p /u01/tmp

unset CLASSPATH
${SOFTWARE_DIR}/em13500_linux64.bin -silent -responseFile /tmp/install.rsp -J-Djava.io.tmpdir=/u01/tmp/

```

Once the installation completes, run the root scripts as the root user.

```

sh ${MW_HOME}/allroot.sh

```

We can now configure Cloud Control. Create a response file for the configuration process.

```

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
MANAGEMENT_TABLESPACE_LOCATION=${DATA_DIR}/${ORACLE_SID^^}/${PDB_NAME}/mgmt.dbf
CONFIGURATION_DATA_TABLESPACE_LOCATION=${DATA_DIR}/${ORACLE_SID^^}/${PDB_NAME}/mgmt_ecm_depot1.dbf
JVM_DIAGNOSTICS_TABLESPACE_LOCATION=${DATA_DIR}/${ORACLE_SID^^}/${PDB_NAME}/mgmt_deepdive.dbf
EOF

```

Run the configuration using the response file we just created, making sure the CLASSPATH is unset.

```

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

```

Wait for the configuration to complete. This can take a long time.

The login screen is available from a browser using the URL provided in the previous screen ("https://ol8-em135.localdomain:7803/em"). Log in with the username "sysman" and the password you specified during your installation.



Enterprise Manager Cloud Control 13c



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Once logged in, you are presented with a with the "License Agreement" screen. Click the "I Accept" button and you are presented with the homepage selector screen. On the right side of the screen it lists the post-installation setup tasks you need to work through. I have these documented in a [separate article](#). Select the desired homepage (I chose Summary).

ORACLE Enterprise Manager Cloud Control 13c

Enterprise Targets Favorites History Setup

Welcome to Enterprise Manager Cloud Control 13c

Oracle Enterprise Manager is Oracle's integrated enterprise IT management product line, which provides the industry's only complete, integrated and business-driven enterprise cloud management solution. Oracle Enterprise Manager creates business value from IT by leveraging the built-in management capabilities of the Oracle stack for traditional and cloud environments, allowing customers to achieve unprecedented efficiency gains while dramatically increasing service levels.

Latest Features

- Single console for WebLogic domain administration
- Automated stack patching for Exadata components
- Improved SOA management

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Select Enterprise Manager Home Page

Select your personal Home Page from one of the options below. Once selected, your personal Home Page will appear the next time you log in. Click an image below for a larger preview, then select a radio button to choose your personal Home Page.

 <input checked="" type="radio"/> Welcome Page <i>Best for: New Users</i>	 <input type="radio"/> All Targets <i>Best for: Enterprise Manager Administrators</i>	 <input type="radio"/> Sitemap <i>Best for: All Users</i>	 <input type="radio"/> Summary <i>Best for: Enterprise Manager Administrators</i>	 <input type="radio"/> Databases <i>Best for: Database Administrators</i>
 <input type="radio"/> Incidents <i>Best for: On-call IT Operations personnel</i>	 <input type="radio"/> SOA <i>Best for: SOA Architect</i>	 <input type="radio"/> Middleware <i>Best for: WebLogic and Middleware Administrators</i>	 <input type="radio"/> Composite Application <i>Best for: Application Architects</i>	 <input type="radio"/> Services <i>Best for: IT Executive Staff</i>

Getting Started

- Verify Software Library Setup
- Configure Management Agent Proxies
- Verify My Oracle Support Connectivity
- Add An Additional OMS
- Configure E-mail Notifications
- Download Management Agent Software
- Download and Deploy Management Plug-ins
- Discover Targets
- Create Administration Groups
- Create Accounts and Assign Roles
- Create Administrator Roles

The common Getting Started tasks can be accessed from the Setup Console.

TIP To return to this Welcome Page use SYSMAN menu > Welcome Page.

You are presented with the selected screen as the console homepage. It might take some time for all of the targets to be recognised as up.

ORACLE Enterprise Manager Cloud Control 13c

Enterprise Targets Favorites History Setup

Enterprise Summary Auto Refresh Off Page Refreshed 27-Apr-2021 20:24:38 UTC

Overview View All Targets (39)

Status

Targets with Status **28**

100% Up (28)

Incidents

Updated in the last 24 hours **2**

Updated in last 7 days **2**

Breakdown of incidents updated in the last 7 days

Category				
Availability	-	-	-	-
Performance	-	-	-	-
Security	-	-	-	-
Others	-	2	-	-

Problems

Total Open **0**

Jobs

Executions in last 3 days

Suspended Executions **0** ✓

Problem Executions **0** ✓

Action Required Executions **0** ✓

Inventory and Usage

Show Systems Infrastructure Switch Details

No data to display

Compliance Summary

Standards Targets

Use Compliance Score Violations View Trends

Name	Average Compliance Score (%)
Enterprise Manager Sizing	66

Patch Recommendations

View by Classification Target Type

Patch recommendations are not available.

My Oracle Support [refresh job](#) has not run successfully in 72 hours. Patch Recommendations information may be stale or unavailable. Either set the preferred My Oracle Support [credentials](#) in online mode or manually upload the metadata required in [offline](#) mode to submit a 'Refresh From My Oracle Support' job.

No recommendations to report [Learn More](#)

Startup/Shutdown

Cloud Control is set to auto-start using the "gcstartup" service. The "/etc/oragchomelist" file contains the items that will be started by the system.

```
/u01/app/oracle/middleware
/u01/app/oracle/agent/agent_13.5.0.0.0:/u01/app/oracle/agent/agent_inst
```

On a simple installation the default auto-start will cause a problem as Cloud Control will attempt to start before the database has started. The service can be disabled by commenting out (using #) all the contents of the "/etc/oragchomelist" file to prevent the auto-start and use start/stop scripts described below.

If the start/stop needs to be automated, you can do it in the usual way using [Linux service](#) that calls your start/stop scripts that include the database management.

Use the following commands to turn on all components installed by this article.

```
#!/bin/bash
export ORACLE_HOME=/u01/app/oracle/product/19.0.0/dbhome_1
export OMS_HOME=/u01/app/oracle/middleware
export AGENT_HOME=/u01/app/oracle/agent/agent_inst

# Start everything
$ORACLE_HOME/bin/dbstart $ORACLE_HOME

$OMS_HOME/bin/emctl start oms

$AGENT_HOME/bin/emctl start agent
```

Use the following commands to turn off all components installed by this article.

```
#!/bin/bash
export ORACLE_HOME=/u01/app/oracle/product/19.0.0/dbhome_1
export OMS_HOME=/u01/app/oracle/middleware
export AGENT_HOME=/u01/app/oracle/agent/agent_inst

# Stop everything
$OMS_HOME/bin/emctl stop oms -all

$AGENT_HOME/bin/emctl stop agent

$ORACLE_HOME/bin/dbshut $ORACLE_HOME
```

For more information see:

- [Oracle Enterprise Manager Cloud Control 13c Post-Installation Setup Tasks](#)
- [Enterprise Manager Cloud Control Basic Installation Guide 13c Release 5 \(13.5.0.0\)](#)

Hope this helps. Regards Tim...

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