목차

Oracle DB 19c 설치 on Rocky 9 3
환경 3
주의사항 3
RPM 패키지로 설치하기 3
다운로드 3
설정 4
설치 4
데이터베이스 확인 7
zip 설치 방법 8
다운로드 9
설치 9
참조링크 34

Oracle DB 19c 설치 on Rocky 9

Oracle Database 19c Installation on Rocky Linux 9 — *이강우 2025/07/11 07:16*

이 문서는 Rocky Linux 9.6에 오라클 DB 19c(19.27패치) 를 설치하는 과정을 기술한 문서입니다. 2025-07-11 테스트 되었습니다.

환경

OS : Rocky Linux 9 (9.6) - Server with GUI DB : Oracle Database 19c (19.3 → 19.27 patch with OPatch)

주의사항

Oracle Database 19c는 공식문서상에 RHEL8/9 가 지원된다고 되어있지만 설치할때 오류가 발생한다. 대표적인 오류는 라이브러리 패키지 없는것과 libasmclntsh19.ohso libasmperl19.ohso client_sharedlib 등의 오류가 발생한다. 이 문제를 해결하기 위해서는 2가지 방법이 있는데

1. 설치를 rpm으로 설치하는 방법
2. OPatch와 DBRU업데이트를 적용하는 방법

개인적으로는 rpm설치를 권장하지만 이런경우 설치경로를 지정할 수 없고 /opt/oracle로 설치된다는 점, 그리고 무조건 Enterprise Edition으로만 설치가 가능하다는점 등이 제한적이다. 딱히 경로에 상관이 없다면 rpm설치를 권장하고 특정경로에 설치해야 하는경우이거나 Standard Edition을 설치해야하는 경우에는 두번째 방법을 사용하여 설치하도록 한다.

RPM 패키지로 설치하기

다운로드

RPM 패키지 다운로드는 아래 경로에서 다운로드 하도록 한다.

- https://www.oracle.com/kr/database/technologies/oracle-database-software-downloads.html
- https://www.oracle.com/database/technologies/oracle19c-linux-downloads.html

어느 경로에서 다운로드 받아도 상관 없으며 RPM설치시에는 무조건 Enterprise Edition으로 설치된다는 점을 유의한다.

패키지 다운로드가 완료되었다면 preinstall패키지를 다운로드 하도록 한다.

- https://yum.oracle.com/repo/OracleLinux/OL9/appstream/x86_64/index.html ← 이 링크로 들어가 최신버전으로 받도록 한다.
- https://yum.oracle.com/repo/OracleLinux/OL9/appstream/x86_64/getPackage/oracle-database-preinstall-19c-1.0-2.el9.x86_64.rpm ← 2026-07-31일자 버전

oracle-database-preinstall패키지는

- 사용자 추가
- THP Disable
- limits 설정
- sysctl 커널 파라메터 설정

등을 자동으로 수행해주므로 아주 편리하다. 이 패키지는 Oracle Linux의 레포지토리에 존재하는 패키지로서 기본적으로 Oracle Linux를 설치하면 포함되어있지만 RHEL/Rocky의 경우에는 수동으로 다운받아 사용하면 된다.

설정

패키지를 모두 다운받았다면 설치하기 전에 아래 설정을 수행한다.

- selinux disable 또는 Permisive 설정
- firewalld disable

두가지 항목 모두 본인이 설정하여 사용하고 싶다면 설정해서 사용해도 되지만 편의를 위해 비활성화 하는것으로 한다.

설치

다운로드 받은 파일

- oracle-database-ee-19c-1.0-1.x86_64.rpm
- oracle-database-preinstall-19c-1.0-1.el9.x86_64.rpm

먼저 oracle-database-preinstall 패키지를 설치한다. 이 작업은 root 계정으로 진행한다.

```
[root@oracle1 ~]# dnf localinstall oracle-database-
preinstall-19c-1.0-1.el9.x86_64.rpm

# 설치가 완료된 이후 oracle 계정의 패스워드를 설정하고 리부팅 한다.
[root@oracle1 ~]# passwd oracle
Changing password for user oracle.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.

[root@oracle1 ~]# reboot
```

이 과정에서 패키지 설치 이후 반드시 리부팅을 해줘야 변경사항이 반영되므로 리부팅을 꼭 하고 다음 단계로 진행하도록 한다.

이후 데이터베이스 패키지를 설치하도록 한다.

```
[root@oracle1 ~]# dnf localinstall oracle-database-ee-19c-1.0-1.x86_64.rpm
Last metadata expiration check: 0:02:06 ago on Fri 11 Jul 2025 05:00:59 PM
KST.
Dependencies resolved.
================================================================================
================================================================================
==
 Package                                          Architecture
Version                          Repository                                Size
================================================================================
================================================================================
==
Installing:
 oracle-database-ee-19c                           x86_64
1.0-1                            @commandline                            2.5 G

Transaction Summary
================================================================================
================================================================================
==
Install  1 Package

Total size: 2.5 G
Installed size: 6.9 G
Is this ok [y/N]: y
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :
1/1
  Running scriptlet: oracle-database-ee-19c-1.0-1.x86_64
1/1
  Installing       : oracle-database-ee-19c-1.0-1.x86_64
1/1
  Running scriptlet: oracle-database-ee-19c-1.0-1.x86_64
1/1
[INFO] Executing post installation scripts...
[INFO] Oracle home installed successfully and ready to be configured.
To configure a sample Oracle Database you can execute the following service
configuration script as root: /etc/init.d/oracledb_ORCLCDB-19c configure

  Verifying        : oracle-database-ee-19c-1.0-1.x86_64
1/1

Installed:
  oracle-database-ee-19c-1.0-1.x86_64
```

```
Complete!
[root@oracle1 ~]#
```

패키지 설치가 완료된 이후 설치할 데이터베이스 설정을 해주도록 한다.
/etc/sysconfig/oracledb_ORCLCDB-19c.conf 파일의 내용을 필요한경우 수정하고 보통은 그냥 그대로 진행하면 된다.

- LISTENER_PORT=1521 리스너 포트번호 설정
- ORACLE_DATA_LOCATION=/opt/oracle/oradata 오라클 데이터 파일이 저장될 경로
- EM_EXPRESS_PORT=5500 엔터프라이즈 매니저 웹 콘솔 접속 포트

```
#This is a configuration file to setup the Oracle Database.
#It is used when running '/etc/init.d/oracledb_ORCLCDB configure'.
#Please use this file to modify the default listener port and the
#Oracle data location.

# LISTENER_PORT: Database listener
LISTENER_PORT=1521

# ORACLE_DATA_LOCATION: Database oradata location
ORACLE_DATA_LOCATION=/opt/oracle/oradata

# EM_EXPRESS_PORT: Oracle EM Express listener
EM_EXPRESS_PORT=5500
```

구성 파일을 수정하였다면 아래 명령어로 설치를 진행한다.

```
[root@oracle1 ~]# /etc/init.d/oracledb_ORCLCDB-19c configure
Configuring Oracle Database ORCLCDB.
Prepare for db operation
8% complete
Copying database files
31% complete
Creating and starting Oracle instance
32% complete
36% complete
40% complete
43% complete
46% complete
Completing Database Creation
51% complete
54% complete
Creating Pluggable Databases
58% complete
77% complete
Executing Post Configuration Actions
100% complete
Database creation complete. For details check the logfiles at:
```

```
 /opt/oracle/cfgtoollogs/dbca/ORCLCDB.
Database Information:
Global Database Name:ORCLCDB
System Identifier(SID):ORCLCDB
Look at the log file "/opt/oracle/cfgtoollogs/dbca/ORCLCDB/ORCLCDB.log" for
further details.

Database configuration completed successfully. The passwords were auto
generated, you must change them by connecting to the database using 'sqlplus
/ as sysdba' as the oracle user.
[root@oracle1 ~]#
```

설치가 완료됐다.

데이터베이스 확인

이제부터는 oracle계정으로 설치를 확인해보도록 한다.

먼저 oracle계정의 환경변수를 설정한다. .bashrc에 아래 내용을 적용한다.

```
[root@oracle1 ~]# su - oracle
[oracle@oracle1 ~]$ vim .bashrc
export ORACLE_BASE=/opt/oracle                                  ### <<< 주의할것!!
맨 뒤에 / 가 들어가면 안된다.
export ORACLE_HOME=$ORACLE_BASE/product/19c/dbhome_1
export ORACLE_SID=ORCLCDB
export PATH=$ORACLE_HOME/bin:$PATH

# 파일 저장 후 환경 변수를 로딩한다.
[oracle@oracle1 ~]$ source .bashrc

[oracle@oracle1 ~]$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Fri Jul 11 17:38:43 2025
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle.  All rights reserved.


Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> SELECT banner FROM v$version;

BANNER
--------------------------------------------------------------------------------
----
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
SQL> exit


[oracle@oracle1 ~]$ lsnrctl status

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 11-JUL-2025 17:42:03

Copyright (c) 1991, 2019, Oracle.  All rights reserved.

Connecting to
(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=oracle1)(PORT=1521)))
STATUS of the LISTENER
------------------------
Alias                     LISTENER
Version                   TNSLSNR for Linux: Version 19.0.0.0.0 - Production
Start Date                11-JUL-2025 17:08:53
Uptime                    0 days 0 hr. 33 min. 11 sec
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      OFF
Listener Parameter File
/opt/oracle/product/19c/dbhome_1/network/admin/listener.ora
Listener Log File
/opt/oracle/diag/tnslsnr/oracle1/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=oracle1)(PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcps)(HOST=oracle1)(PORT=5500))(Security=(my
_wallet_directory=/opt/oracle/admin/ORCLCDB/xdb_wallet))(Presentation=HTTP)(
Session=RAW))
Services Summary...
Service "39a40b62792c1587e06550540097f83a" has 1 instance(s).
  Instance "ORCLCDB", status READY, has 1 handler(s) for this service...
Service "ORCLCDB" has 1 instance(s).
  Instance "ORCLCDB", status READY, has 1 handler(s) for this service...
Service "ORCLCDBXDB" has 1 instance(s).
  Instance "ORCLCDB", status READY, has 1 handler(s) for this service...
Service "orclpdb1" has 1 instance(s).
  Instance "ORCLCDB", status READY, has 1 handler(s) for this service...
The command completed successfully
[oracle@oracle1 ~]$
```

설치 종료

zip 설치 방법

zip설치 방법은 Standard Edition을 설치하려고 하거나 설치경로를 원하는 특정한 경로에 설치하

고 싶거나 하는경우에 사용할 수 있는 방법이다.

다운로드

zip파일 설치시에 필요한 파일은 아래와 같다.

- oracle-database-preinstall-19c-1.0-2.el9.x86_64.rpm : preinstall 패키지
- LINUX.X64_193000_db_home.zip : Oracle Database 19c (19.3.0.0.0)
- p6880880_190000_Linux-x86-64.zip : OPatch 12.2.0.1.46 for DB 19.0.0.0.0 (Apr 2025)
- p37641958_190000_Linux-x86-64.zip : Oracle Database 19.27 GI patch

oracle-database-preinstall-19c-1.0-2.el9.x86_64.rpm 은 rpm설치때와 마찬가지로 Oracle DB를 설치하기 위한 사전 설정을 해주는 패키지 파일이다.

- https://yum.oracle.com/repo/OracleLinux/OL9/appstream/x86_64/index.html ← 이 링크로 들어가 최신버전으로 받도록 한다.
- https://yum.oracle.com/repo/OracleLinux/OL9/appstream/x86_64/getPackage/oracle-database-preinstall-19c-1.0-2.el9.x86_64.rpm ← 2026-07-31일자 버전

LINUX.X64_193000_db_home.zip 파일은 오라클 데이터베이스 설치파일이다. 하지만 이 버전은 RHEL/Rocky 9 에 설치할때 버그로 인하여 오류가 발생한다. 우선 받도록 한다. 다운로드 : https://www.oracle.com/kr/database/technologies/oracle-database-software-downloads.html 다운로드 : https://www.oracle.com/database/technologies/oracle19c-linux-downloads.html

p6880880_190000_Linux-x86-64.zip 이 파일은 위의 오라클 데이터베이스 설치파일의 버그를 해결해주는 패치 파일이다. 버그는 설치파일에 포함된 OPatch의 문제인데 이것을 패치해주는 파일이다. 다운로드 : Download Latest OPatch Version

p37641958_190000_Linux-x86-64.zip 이 파일은 오라클 데이터베이스 버전을 19.27.0.0.0 으로 업데이트 하는 패치파일이다. 원본파일인 19.3.0.0.0에 문제가 있으므로 패치하여 설치하는것이다. 다운로드 : GI Release Update 19.27.0.0.0 (System Patch)

위 패치파일은 오라클 정식 서브스크립션이 등록된 계정으로
만 다운로드 가능하다.

- 오라클 계정이 없다면 https://dl.cadwin.net/Oracle/patches/ 이 사이트에서 다운로드 가능하다. 패치파일은 p33515361_190000_Linux-x86-64.zip 을 받으면 된다. 이 파일은 19.14.0.0.0 버전패치이다.

설치

먼저 root권한으로 preinstall 패키지를 설치한 후 oracle계정의 암호를 설정해줍니다. 그리고 리부팅합니다.

```
[root@oracle1 ~]# dnf localinstall oracle-database-
preinstall-19c-1.0-1.el9.x86_64.rpm
```

```
[root@oracle1 ~]# passwd oracle
Changing password for user oracle.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@oracle1 ~]# reboot
```

그리고 오라클 데이터베이스를 설치할 경로를 생성하고 oracle 사용자 권한으로 변경해줍니다.

```
[root@oracle1 ~]# mkdir -p /app/oracle
[root@oracle1 ~]# chown -R oracle. /app
```

이후 oracle계정으로 로그인하여 다음을 진행한다. oracle계정 홈디렉토리(/home/oracle/)에 아래 파일들이 위치해야한다.

- LINUX.X64_193000_db_home.zip
- p37641958_190000_Linux-x86-64.zip
- p6880880_190000_Linux-x86-64.zip

먼저 설치 환경 설정을 아래와 같이 한다고 가정한다.

- CV_ASSUME_DISTID : RHEL9 이 값은 오라클 데이터베이스 설치 시 특정 리눅스 배포판을 인식하도록 설정하는 환경 변수입니다.
- ORACLE_BASE : /app/oracle
- ORACLE_HOME : $ORACLE_BASE/product/19c/dbhome_1
- ORACLE_SID : ORCLCDB
- Installation : Standard Edition

.bashrc 파일에 아래 내용을 적용한다.

```
export CV_ASSUME_DISTID=RHEL9
export ORACLE_BASE=/app/oracle
export ORACLE_HOME=$ORACLE_BASE/product/19c/dbhome_1
export ORACLE_SID=ORCLCDB
export PATH=$ORACLE_HOME/bin:$PATH
```

이후 해당 환경변수를 다시 로딩하고 진행한다.

```
[oracle@oracle1 ~]$ source .bashrc
[oracle@oracle1 ~]$
```

먼저 LINUX.X64_193000_db_home.zip 파일의 압축을 /app/oracle/product/19c/dbhome_1 경로에 풀어줍니다.

```
[oracle@oracle1 ~]$ mkdir -p /app/oracle/product/19c/dbhome_1
[oracle@oracle1 ~]$ cd /app/oracle/product/19c/dbhome_1
```

```
[oracle@oracle1 dbhome_1]$ unzip ~/LINUX.X64_193000_db_home.zip
Archive:  /home/oracle/LINUX.X64_193000_db_home.zip
   creating: drdaas/
   creating: drdaas/admin/
  inflating: drdaas/admin/drdasqtt_translator_setup.sql
  inflating: drdaas/admin/drdapkg_db2.sql
  inflating: drdaas/admin/drdaas.ora
  inflating: drdaas/admin/drdasqt_set_profile_dd.sql
   creating: drdaas/lib/
  inflating: drdaas/lib/s0dpspmain.o

... 생략 ...

  jdk/jre/bin/ControlPanel -> jcontrol
  javavm/admin/lfclasses.bin -> ../../javavm/jdk/jdk8/admin/lfclasses.bin
  javavm/lib/security/cacerts ->
../../../javavm/jdk/jdk8/lib/security/cacerts
  javavm/lib/sunjce_provider.jar ->
../../javavm/jdk/jdk8/lib/sunjce_provider.jar
  javavm/lib/security/README.txt ->
../../../javavm/jdk/jdk8/lib/security/README.txt
  javavm/lib/security/java.security ->
../../../javavm/jdk/jdk8/lib/security/java.security
  jdk/jre/lib/amd64/server/libjsig.so -> ../libjsig.so
[oracle@oracle1 dbhome_1]$
```

해당 버전에는 버그가 있으므로 이 상태로는 설치가 불가능하다. OPatch 업데이트를 진행한다. 일단 기존버전에 존재하는 OPatch 디렉토리를 OPatch.old로 변경하고 새로운 패치파일을 압축 해제한다.

```
[oracle@oracle1 dbhome_1]$ mv OPatch/ OPatch.old
[oracle@oracle1 dbhome_1]$ unzip ~/p6880880_190000_Linux-x86-64.zip
Archive:  /home/oracle/p6880880_190000_Linux-x86-64.zip
   creating: OPatch/
   creating: OPatch/oracle_common/
   creating: OPatch/oracle_common/modules/
  inflating: OPatch/oracle_common/modules/com.oracle.glcm.common-
logging_1.6.5.0.jar
  inflating: OPatch/oracle_common/modules/common-logging-config.jar
  inflating: OPatch/opatch_env.sh
  inflating: OPatch/operr
  inflating: OPatch/README.txt

... 생략 ...

  inflating: OPatch/opatchprereqs/prerequisite.properties
   creating: OPatch/opatchprereqs/oui/
  inflating: OPatch/opatchprereqs/oui/knowledgesrc.xml
   creating: OPatch/opatchprereqs/opatch/
  inflating: OPatch/opatchprereqs/opatch/rulemap.xml
  inflating: OPatch/opatchprereqs/opatch/runtime_prereq.xml
```

```
  inflating: OPatch/opatchprereqs/opatch/opatch_prereq.xml
  inflating: OPatch/opatch
[oracle@oracle1 dbhome_1]$
```

이제 오라클 데이터베이스의 19.27.0.0.0 패치파일(p37641958_190000_Linux-x86-64.zip)을 준비한다.

```
[oracle@oracle1 dbhome_1]$ cd
[oracle@oracle1 ~]$ mkdir patch
[oracle@oracle1 ~]$ cd patch
[oracle@oracle1 patch]$ unzip ~/p37641958_190000_Linux-x86-64.zip

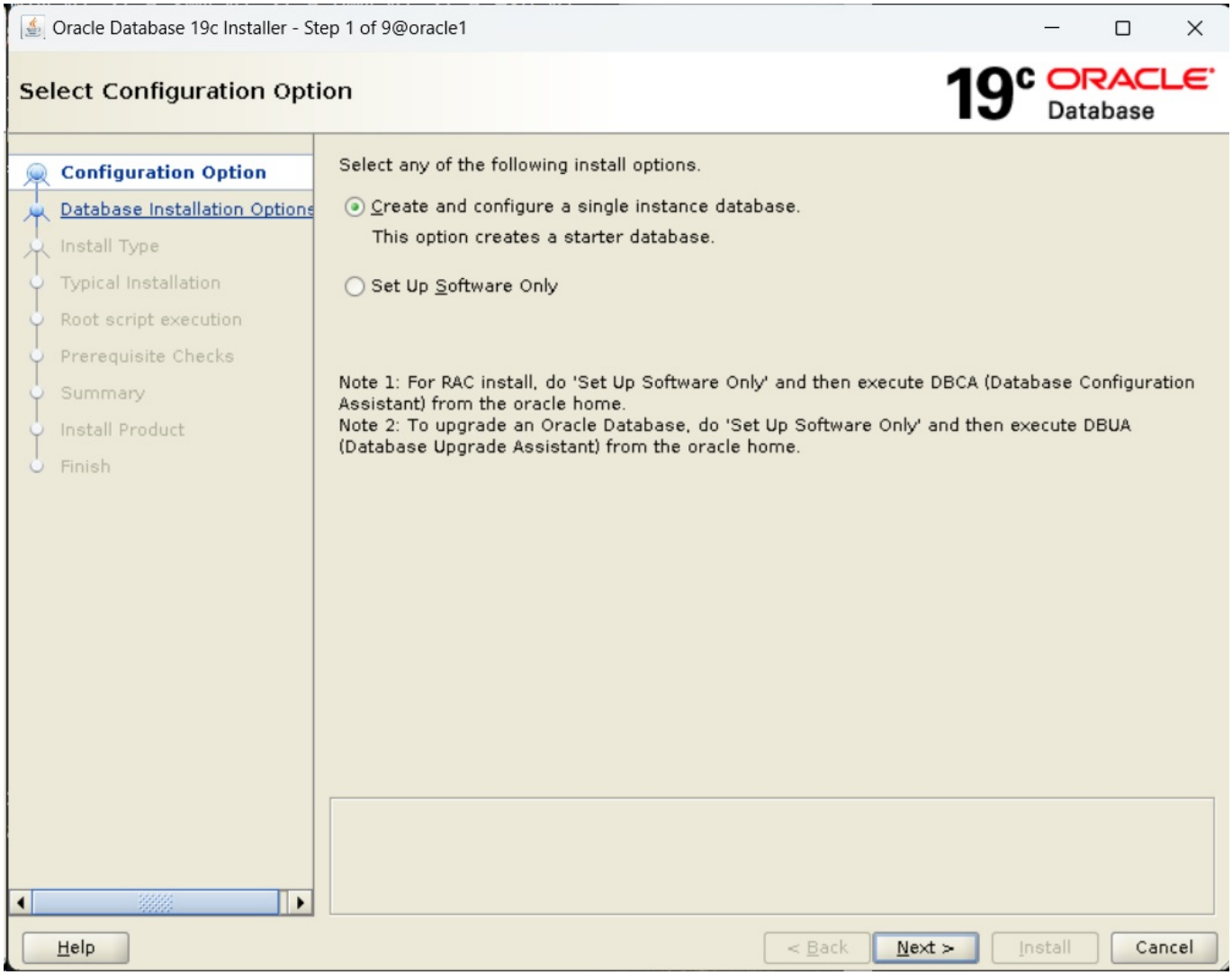
... 생략 ...

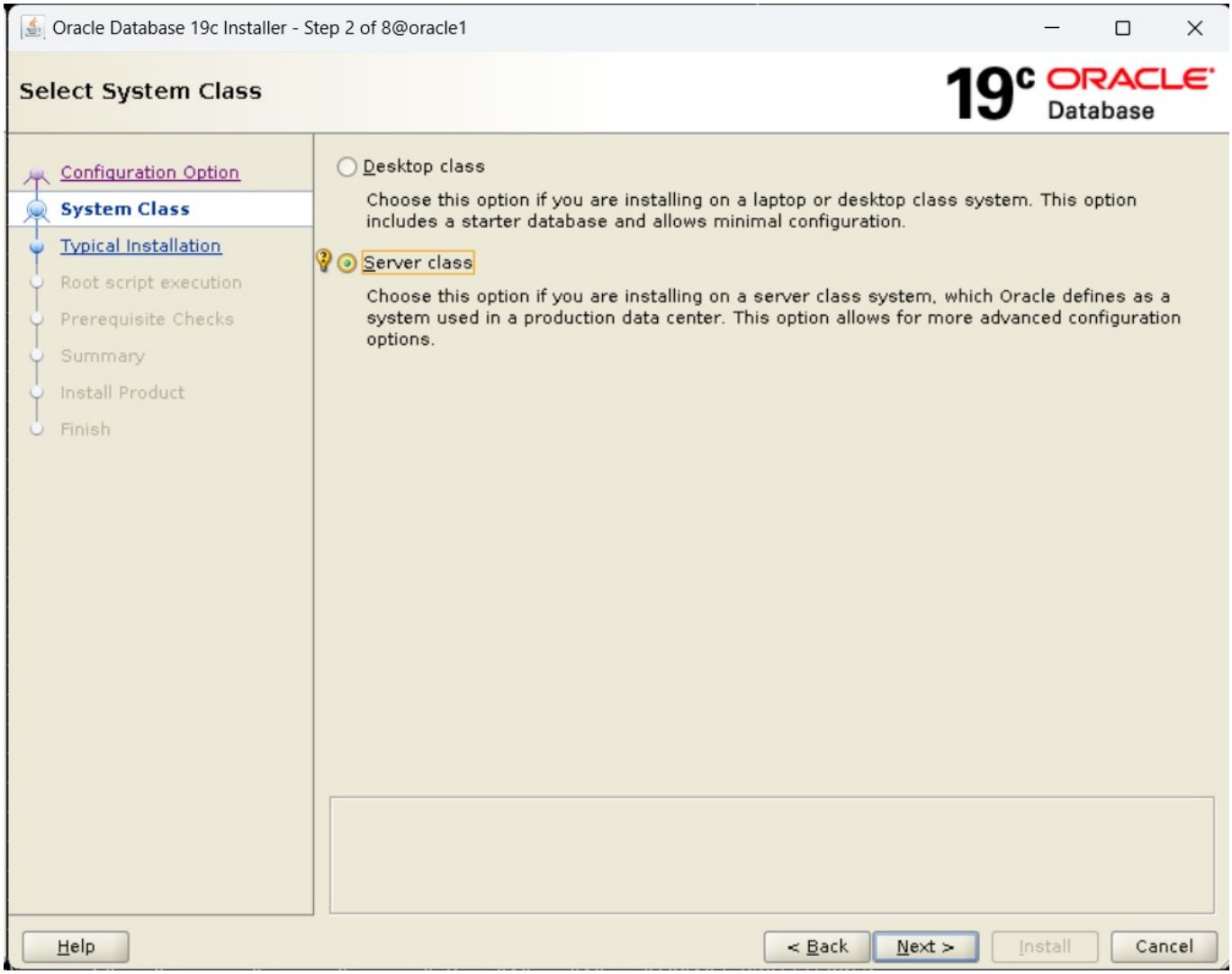
  inflating: 37641958/automation/bp1-rollback-inplace-automation.xml
  inflating: 37641958/automation/bp1-rollback-inplace-non-rolling-
automation.xml
  inflating: 37641958/automation/messages.properties
  inflating: 37641958/README.txt
  inflating: 37641958/README.html
  inflating: 37641958/bundle.xml
  inflating: PatchSearch.xml
[oracle@oracle1 patch]$
```

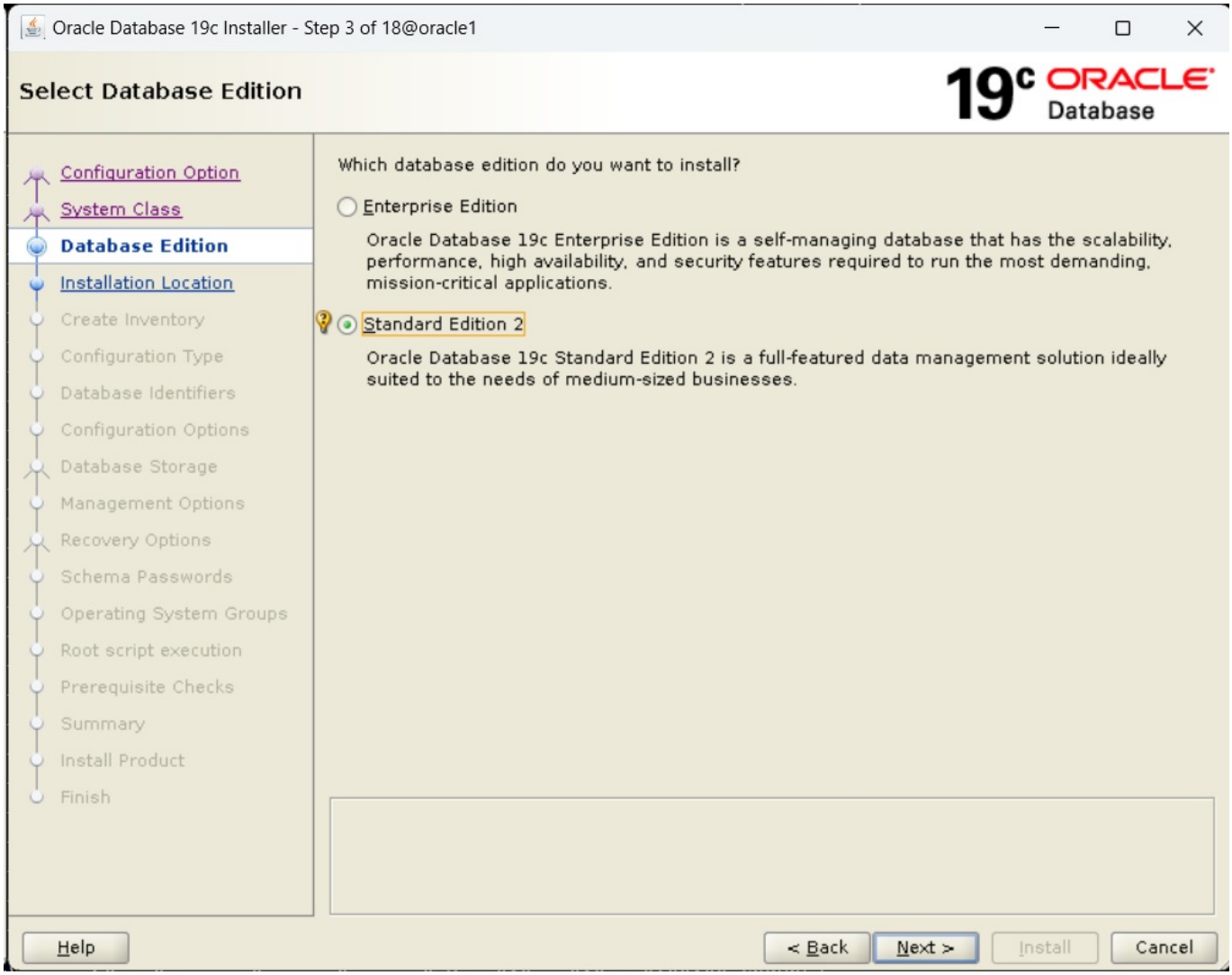
이제 준비는 모두 끝났다. 패치를 포함하여 설치를 시작한다.

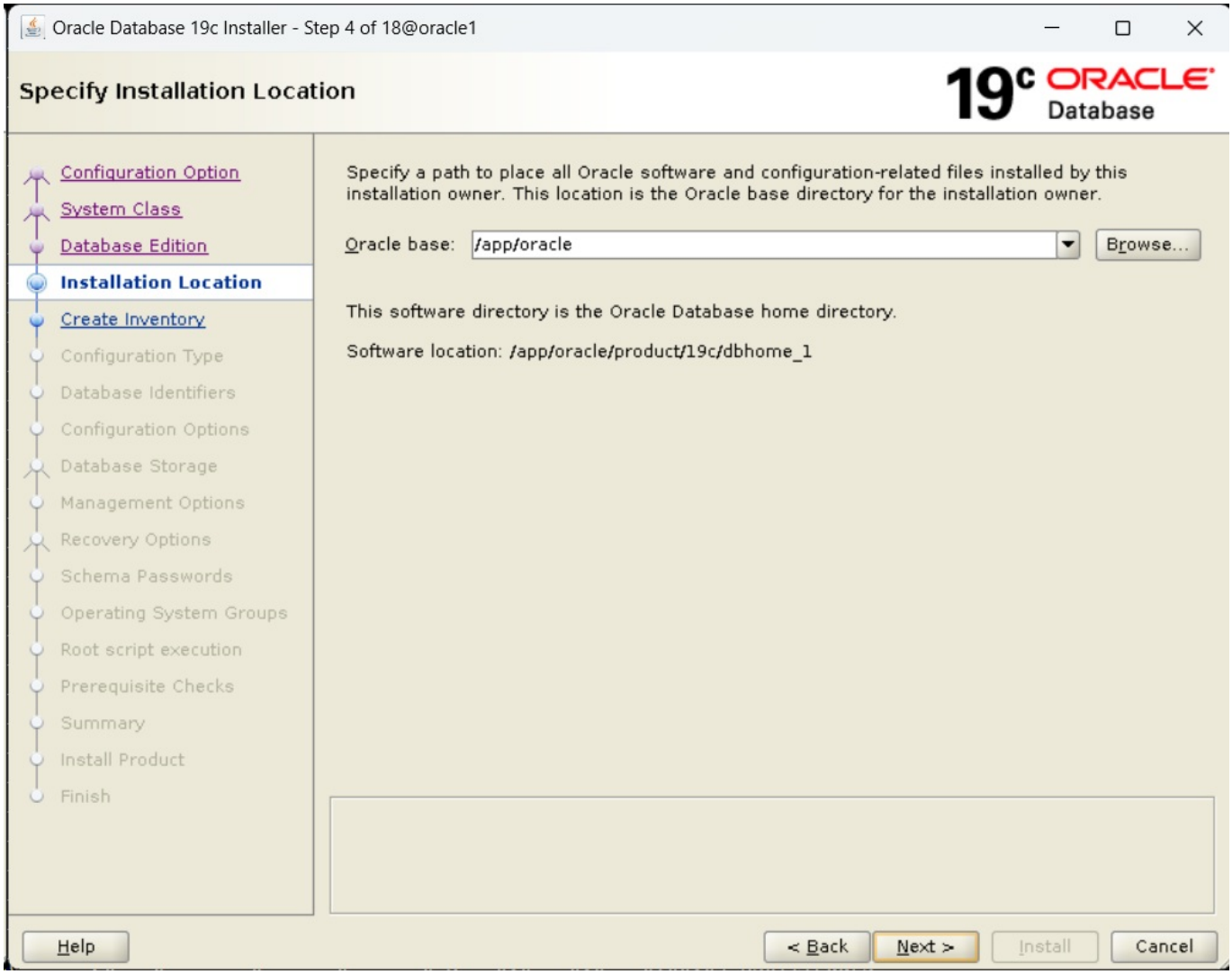
```
[oracle@oracle1 ~]$ cd /app/oracle/product/19c/dbhome_1/
[oracle@oracle1 dbhome_1]$ ./runInstaller -applyRU ~/patch/37641958/
Preparing the home to patch...
Applying the patch /home/oracle/patch/37641958/...
Successfully applied the patch.
The log can be found at:
/tmp/InstallActions2025-07-11_09-40-51PM/installerPatchActions_2025-07-11_09
-40-51PM.log
Launching Oracle Database Setup Wizard...
```

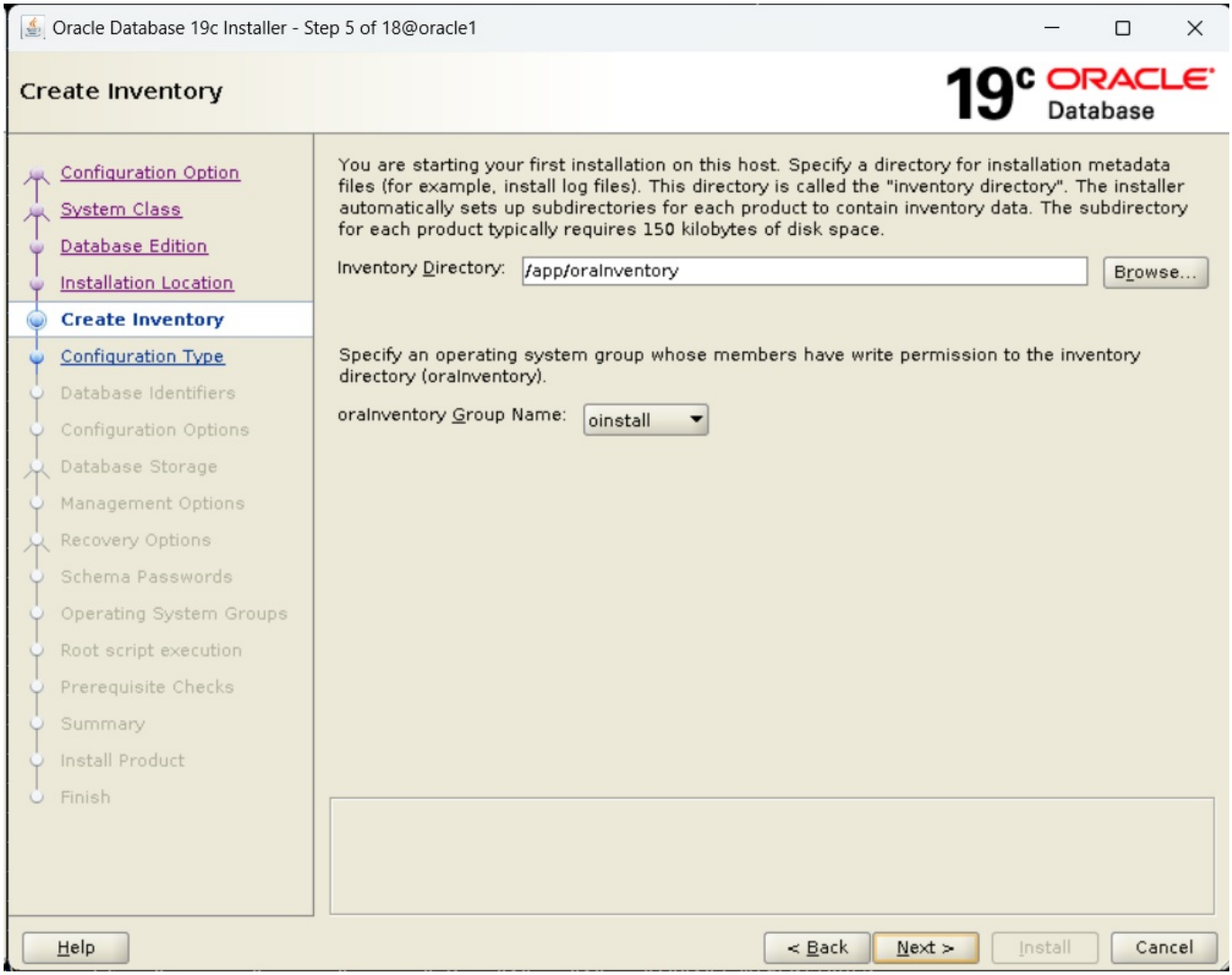
위와같이 진행된 이후 설치 GUI 화면이 나타난다.

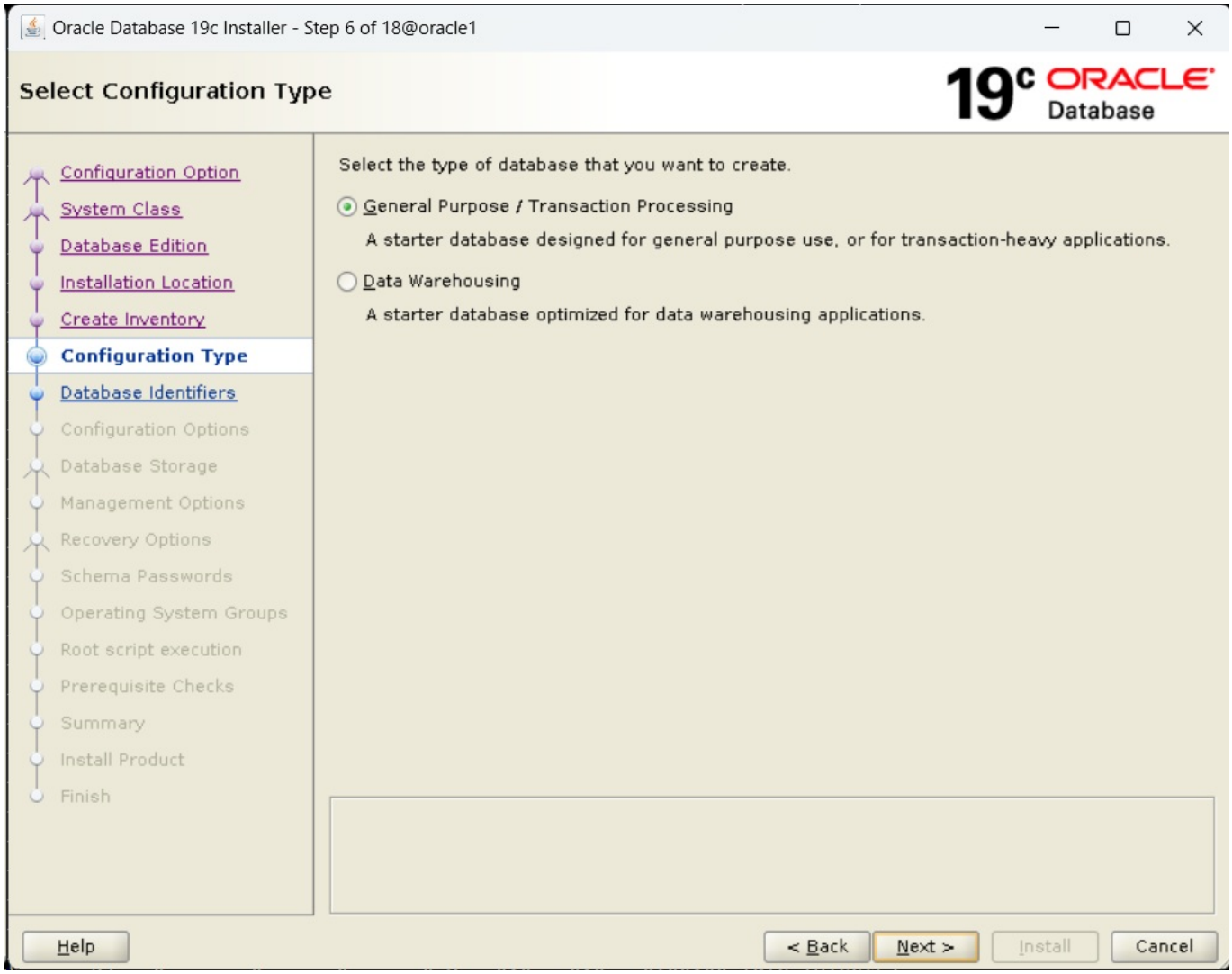

Oracle Database 19c Installer - Step 1 of 9@oracle1
Select Configuration Option
19c ORACLE Database
Configuration Option
Database Installation Options
Install Type
Typical Installation
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select any of the following install options.
Create and configure a single instance database.
This option creates a starter database.
Set Up Software Only
Note 1: For RAC install, do 'Set Up Software Only' and then execute DBCA (Database Configuration Assistant) from the oracle home.
Note 2: To upgrade an Oracle Database, do 'Set Up Software Only' and then execute DBUA (Database Upgrade Assistant) from the oracle home.
Help
< Back
Next >
Install
Cancel

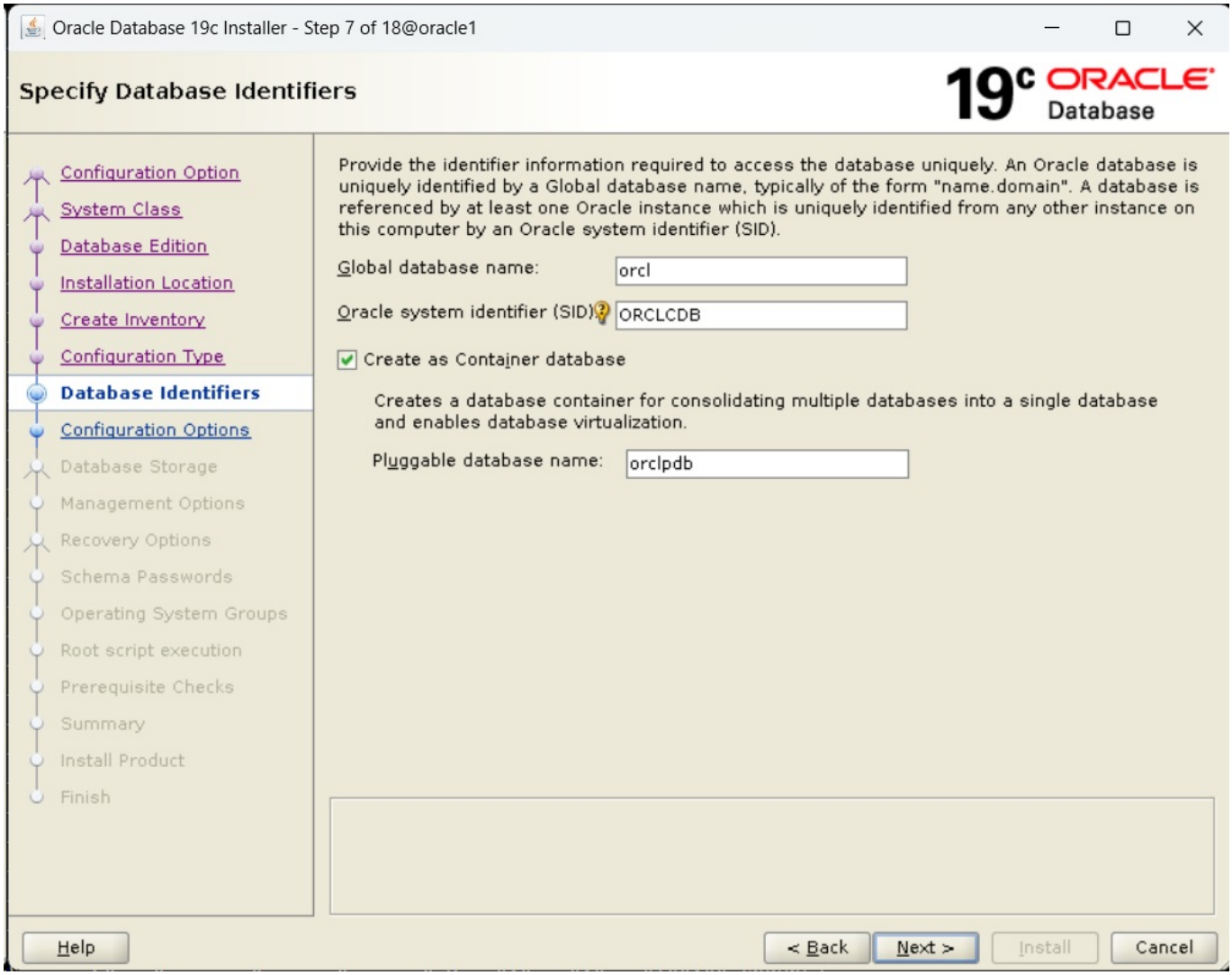

Oracle Database 19c Installer - Step 2 of 8@oracle1
Select System Class
19c ORACLE Database
Configuration Option
System Class
Typical Installation
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Desktop class
Choose this option if you are installing on a laptop or desktop class system. This option includes a starter database and allows minimal configuration.
Server class
Choose this option if you are installing on a server class system, which Oracle defines as a system used in a production data center. This option allows for more advanced configuration options.
Help
< Back
Next >
Install
Cancel

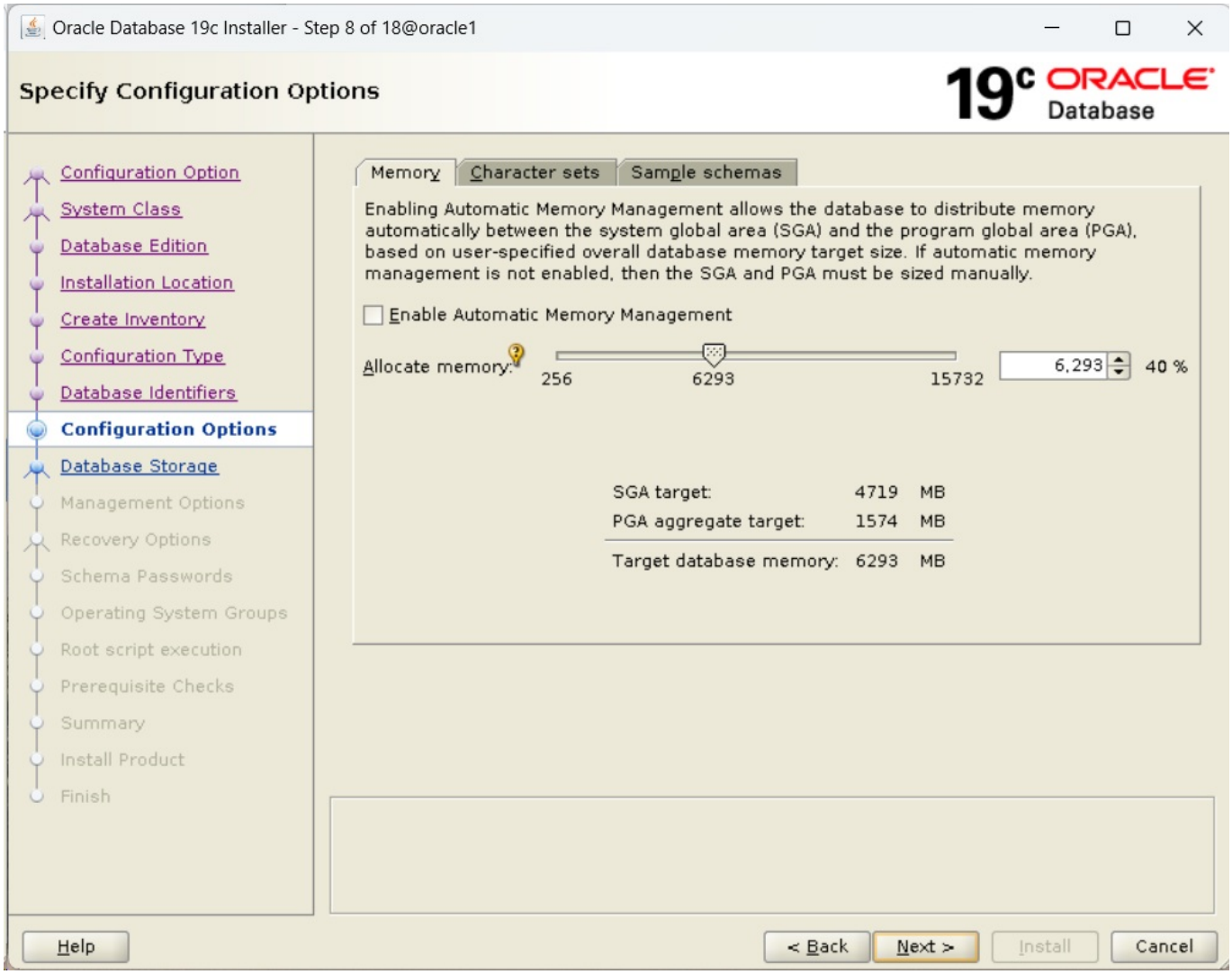

Oracle Database 19c Installer - Step 3 of 18@oracle1
Select Database Edition
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Which database edition do you want to install?
Enterprise Edition
Oracle Database 19c Enterprise Edition is a self-managing database that has the scalability, performance, high availability, and security features required to run the most demanding, mission-critical applications.
Standard Edition 2
Oracle Database 19c Standard Edition 2 is a full-featured data management solution ideally suited to the needs of medium-sized businesses.
Help
< Back
Next >
Install
Cancel

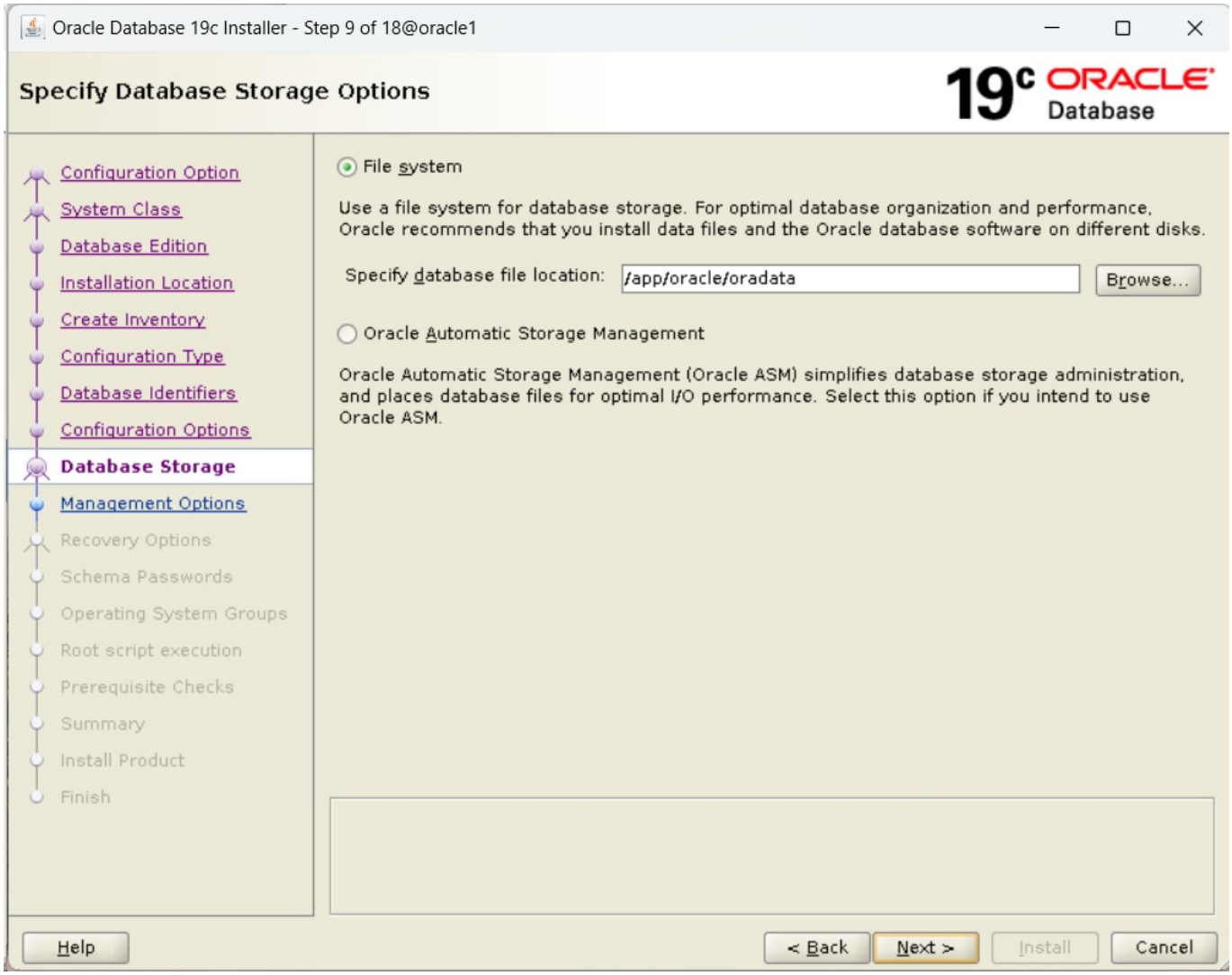

Oracle Database 19c Installer - Step 4 of 18@oracle1
Specify Installation Location
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
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: /app/oracle
Browse...
This software directory is the Oracle Database home directory.
Software location: /app/oracle/product/19c/dbhome_1
Help
< Back
Next >
Install
Cancel

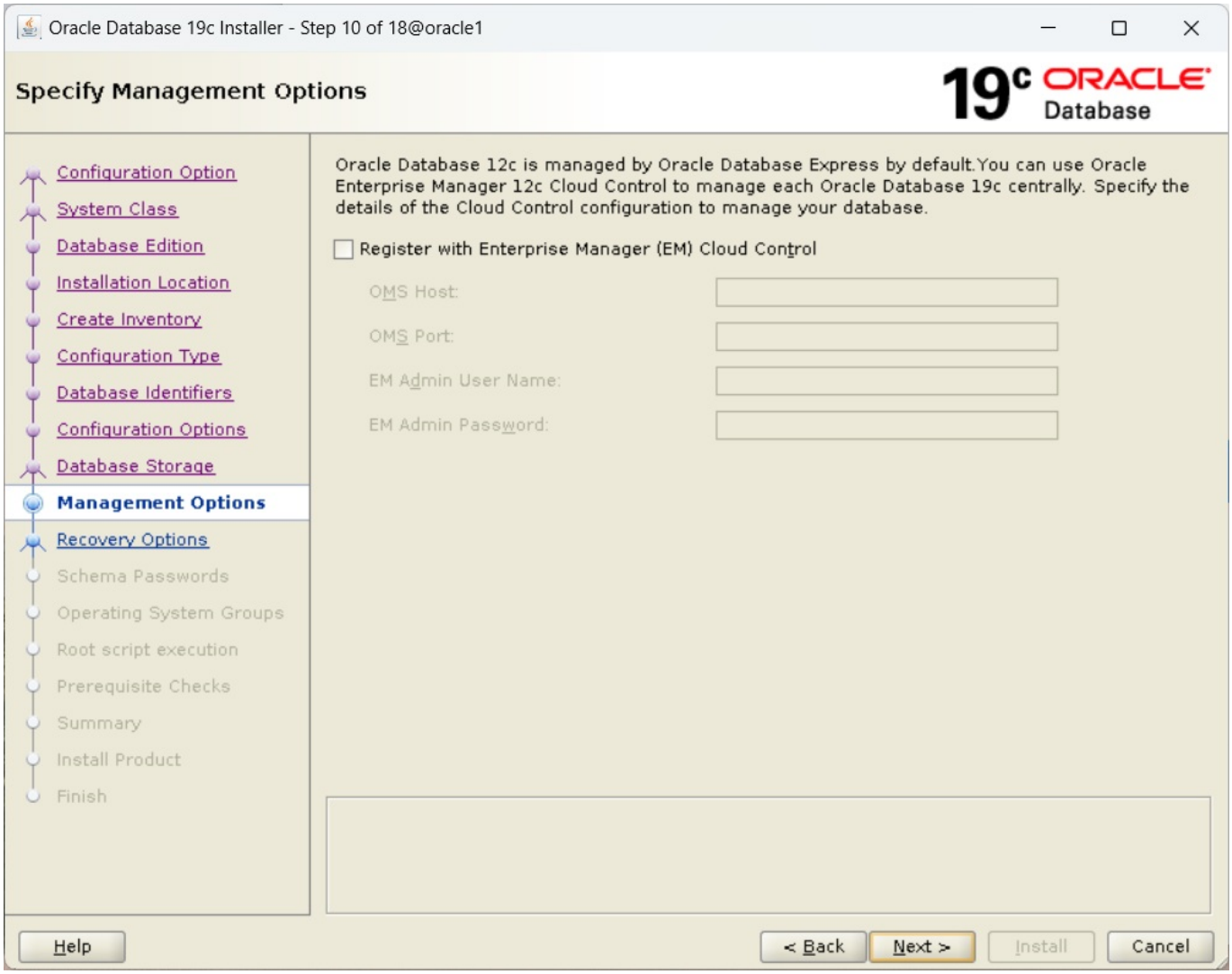

Oracle Database 19c Installer - Step 5 of 18@oracle1
Create Inventory
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
You are starting your first installation on this host. Specify a directory for installation 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: /app/oraInventory
Browse...
Specify an operating system group whose members have write permission to the inventory directory (oraInventory).
oraInventory Group Name: oinstall
Help
< Back
Next >
Install
Cancel

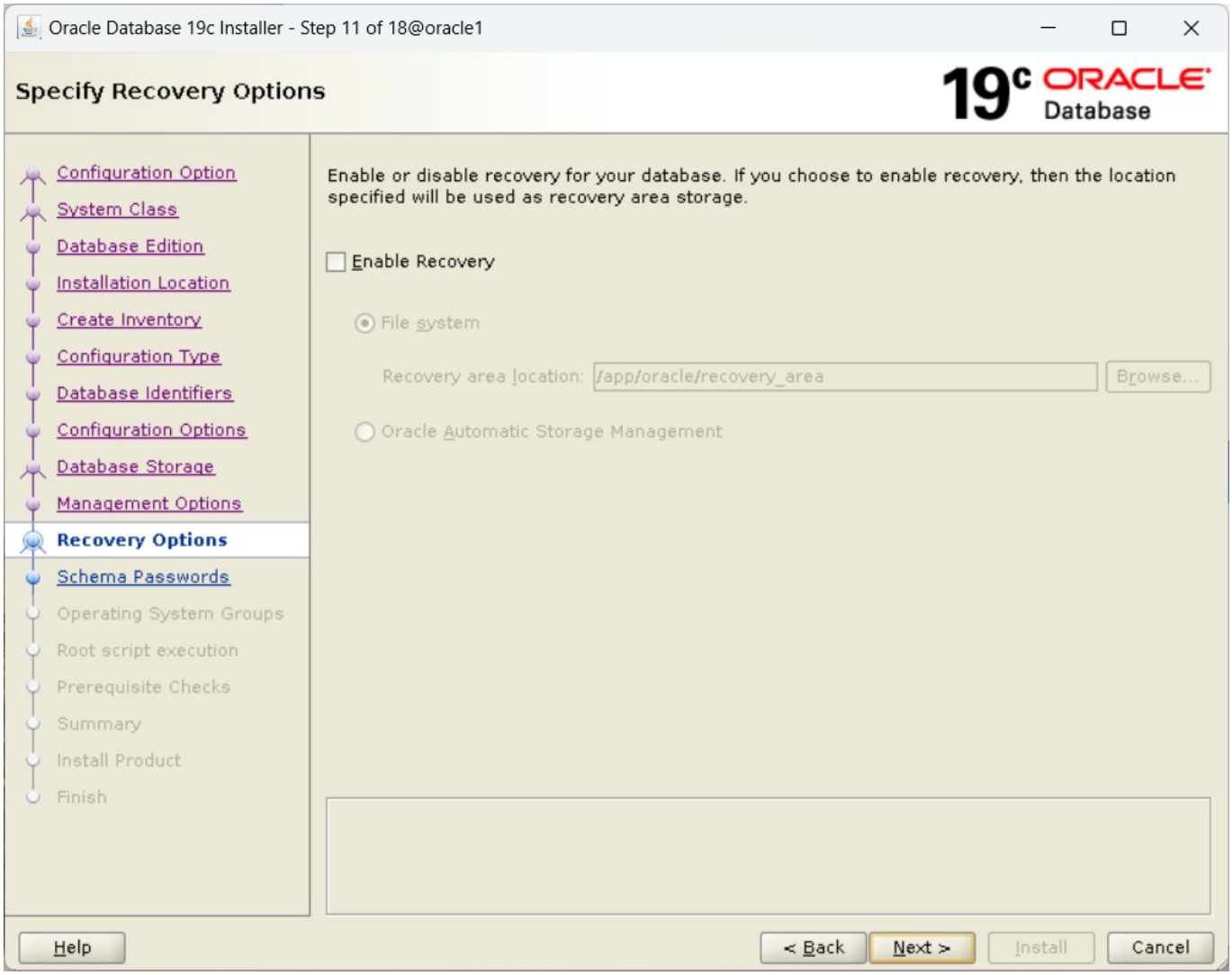

Oracle Database 19c Installer - Step 6 of 18@oracle1
Select Configuration Type
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select the type of database that you want to create.
General Purpose / Transaction Processing
A starter database designed for general purpose use, or for transaction-heavy applications.
Data Warehousing
A starter database optimized for data warehousing applications.
Help
< Back
Next >
Install
Cancel

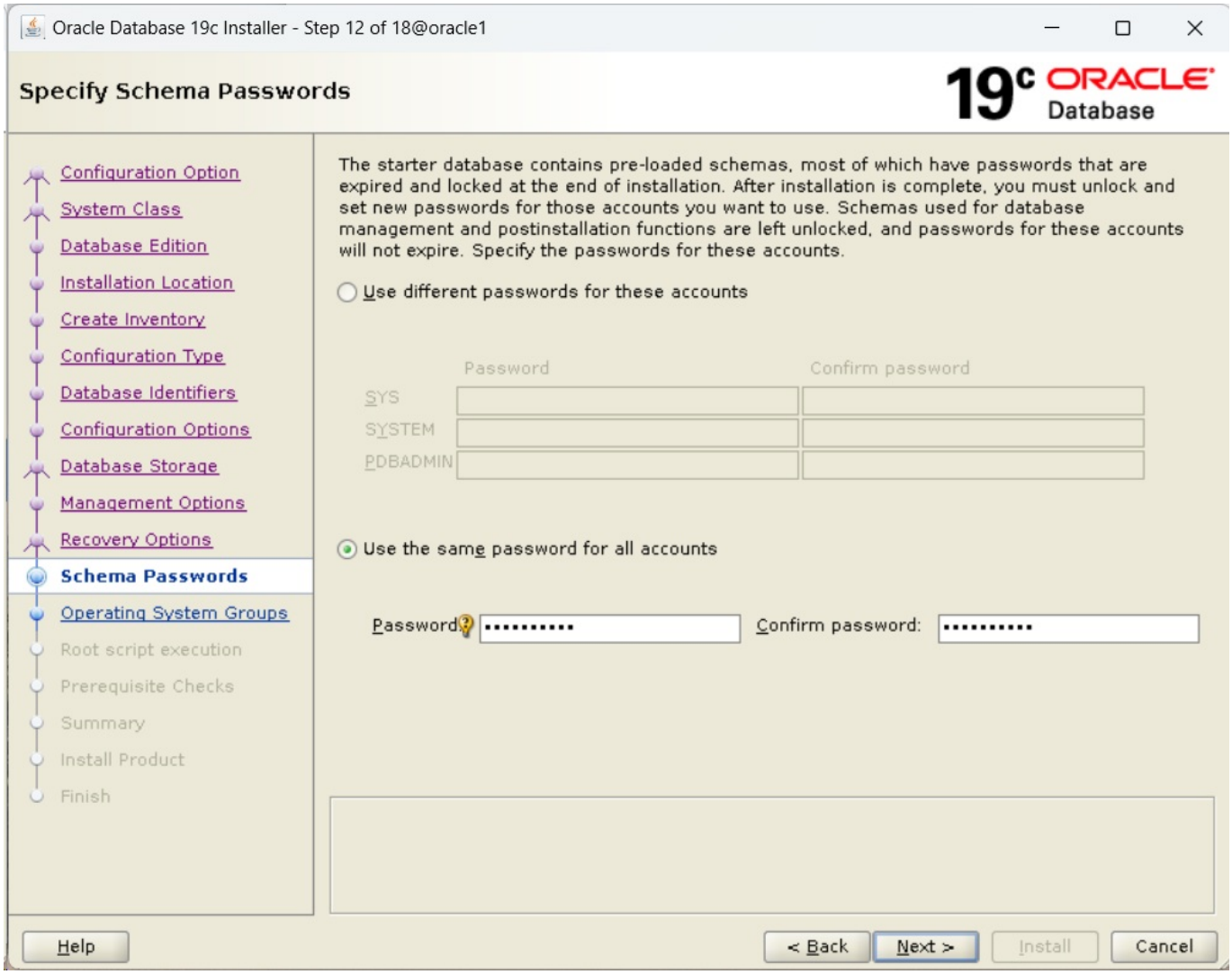

Oracle Database 19c Installer - Step 7 of 18@oracle1
Specify Database Identifiers
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Provide the identifier information required to access the database uniquely. An Oracle database is uniquely identified by a Global database name, typically of the form "name.domain". A database is referenced by at least one Oracle instance which is uniquely identified from any other instance on this computer by an Oracle system identifier (SID).
Global database name: orcl
Oracle system identifier (SID): ORCLCDB
Create as Container database
Creates a database container for consolidating multiple databases into a single database and enables database virtualization.
Pluggable database name: orclpdb
Help
< Back
Next >
Install
Cancel

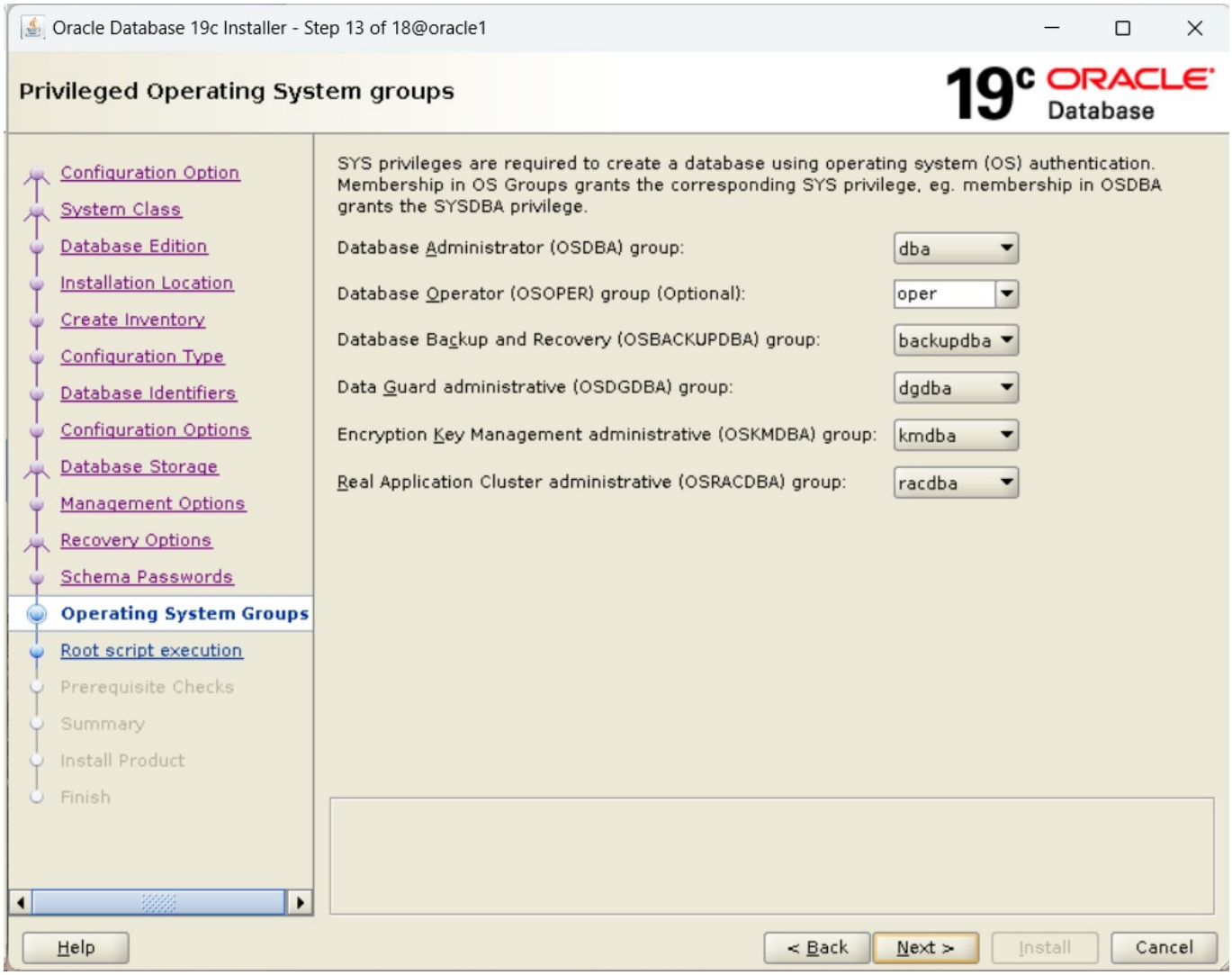

Oracle Database 19c Installer - Step 8 of 18@oracle1
Specify Configuration Options
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Memory
Character sets
Sample schemas
Enabling Automatic Memory Management allows the database to distribute memory automatically between the system global area (SGA) and the program global area (PGA), based on user-specified overall database memory target size. If automatic memory management is not enabled, then the SGA and PGA must be sized manually.
Enable Automatic Memory Management
Allocate memory:
256
6293
15732
6,293
40 %
SGA target: 4719 MB
PGA aggregate target: 1574 MB
Target database memory: 6293 MB
Help
< Back
Next >
Install
Cancel

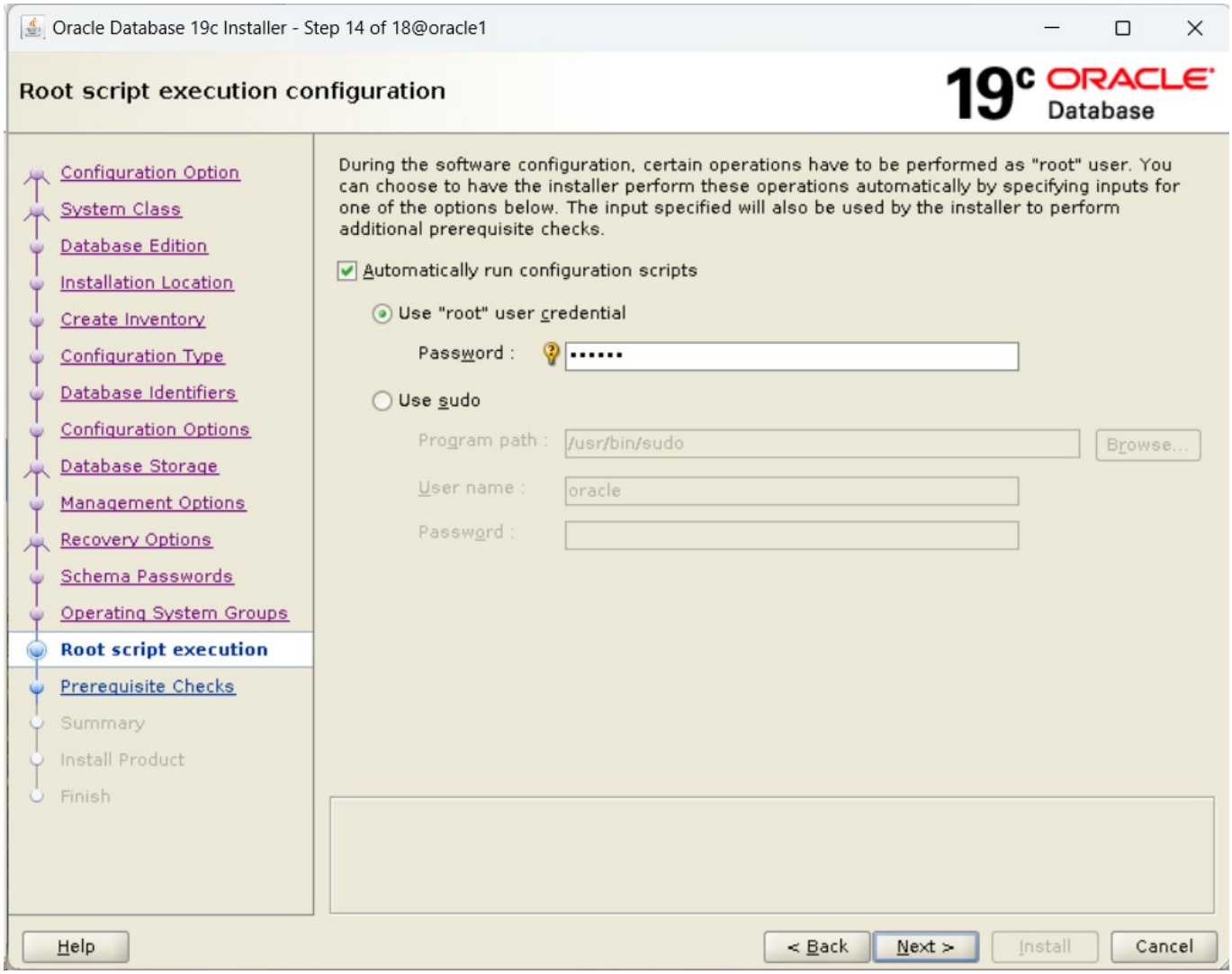

Oracle Database 19c Installer - Step 9 of 18@oracle1
Specify Database Storage Options
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
File system
Use a file system for database storage. For optimal database organization and performance, Oracle recommends that you install data files and the Oracle database software on different disks.
Specify database file location:
/app/oracle/oradata
Browse...
Oracle Automatic Storage Management
Oracle Automatic Storage Management (Oracle ASM) simplifies database storage administration, and places database files for optimal I/O performance. Select this option if you intend to use Oracle ASM.
Help
< Back
Next >
Install
Cancel

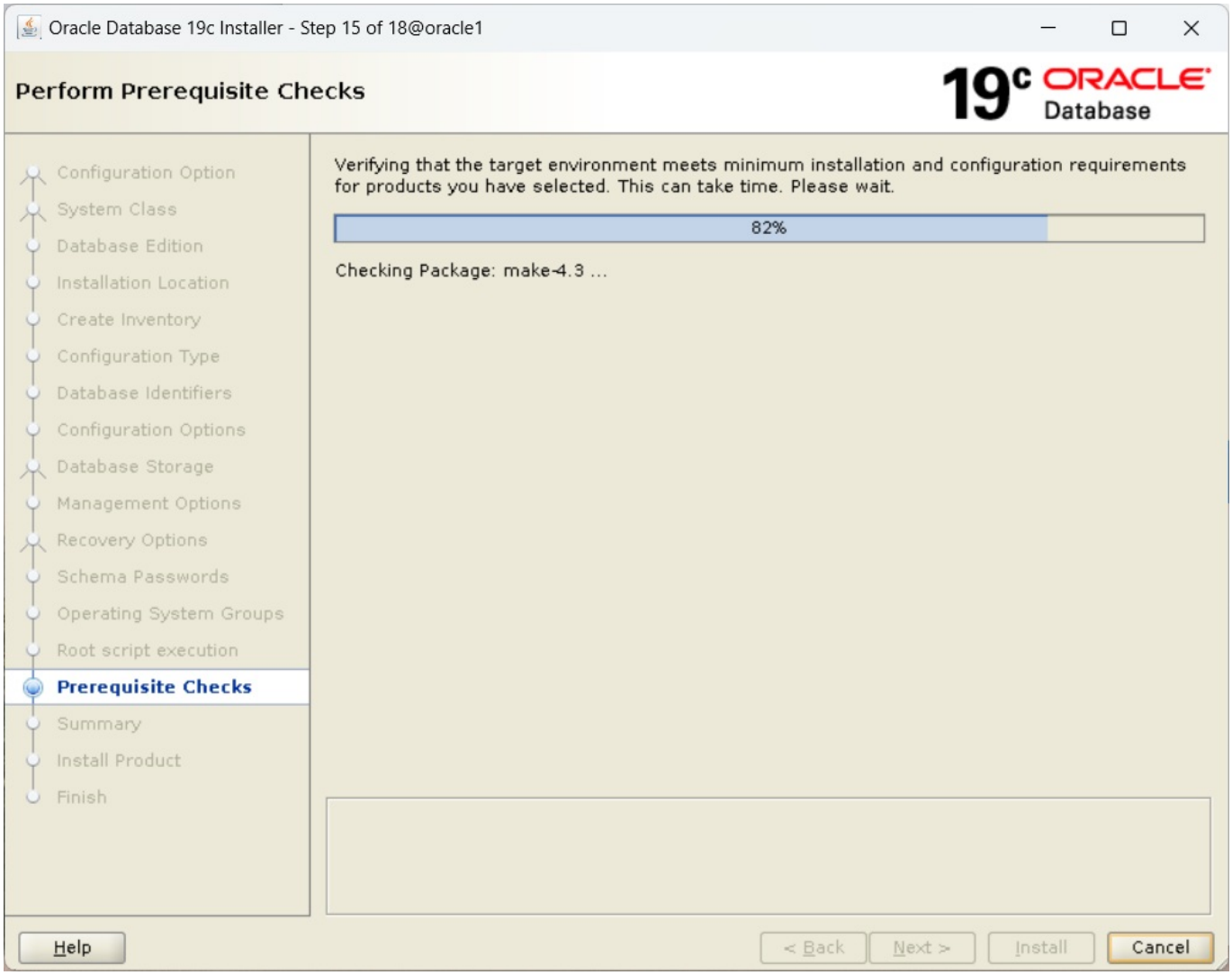

Oracle Database 19c Installer - Step 10 of 18@oracle1
Specify Management Options
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Oracle Database 12c is managed by Oracle Database Express by default.You can use Oracle Enterprise Manager 12c Cloud Control to manage each Oracle Database 19c centrally. Specify the details of the Cloud Control configuration to manage your database.
Register with Enterprise Manager (EM) Cloud Control
OMS Host:
OMS Port:
EM Admin User Name:
EM Admin Password:
Help
< Back
Next >
Install
Cancel

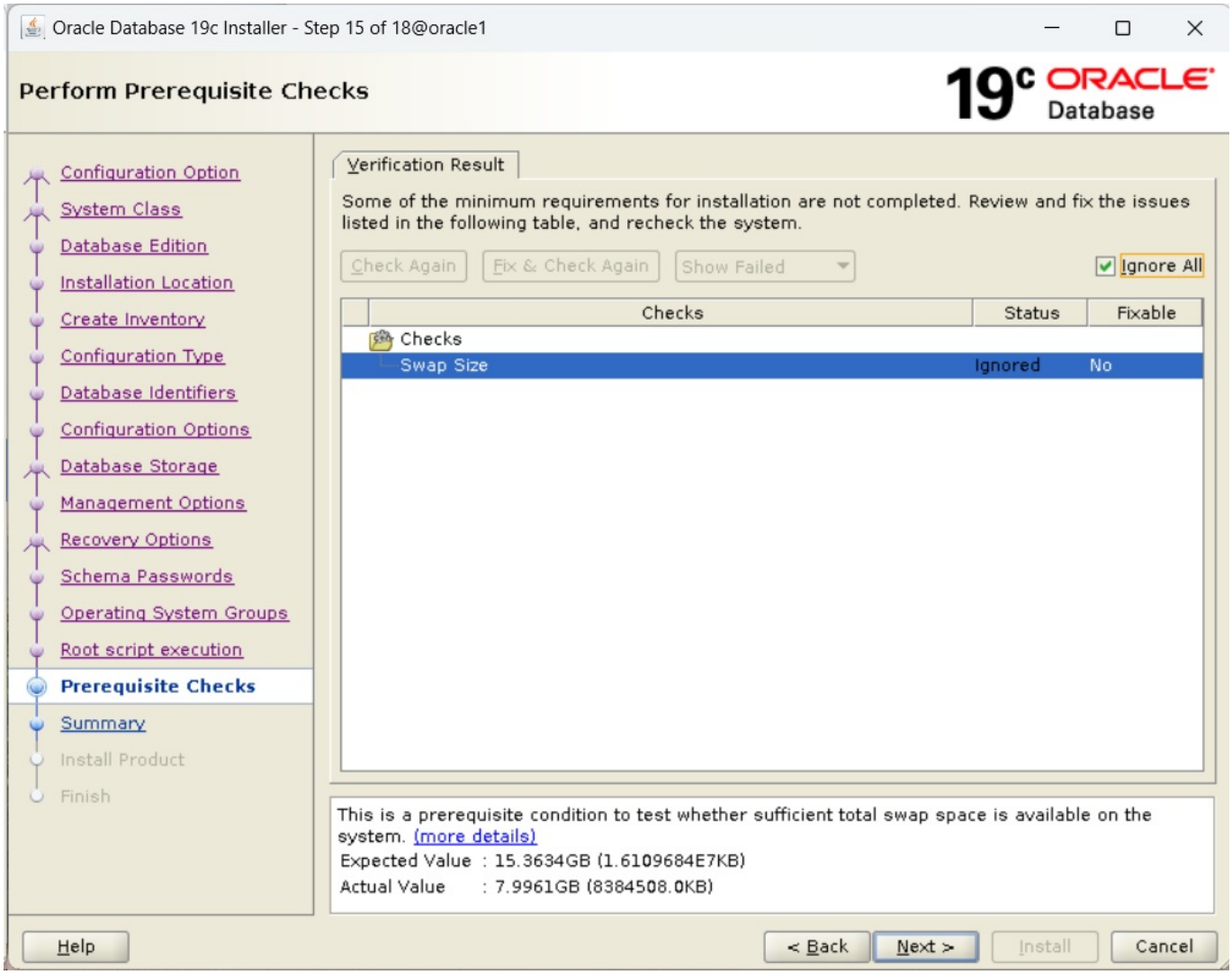

Oracle Database 19c Installer - Step 11 of 18@oracle1
Specify Recovery Options
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Enable or disable recovery for your database. If you choose to enable recovery, then the location specified will be used as recovery area storage.
Enable Recovery
File system
Recovery area location: /app/oracle/recovery_area
Browse...
Oracle Automatic Storage Management
Help
< Back
Next >
Install
Cancel

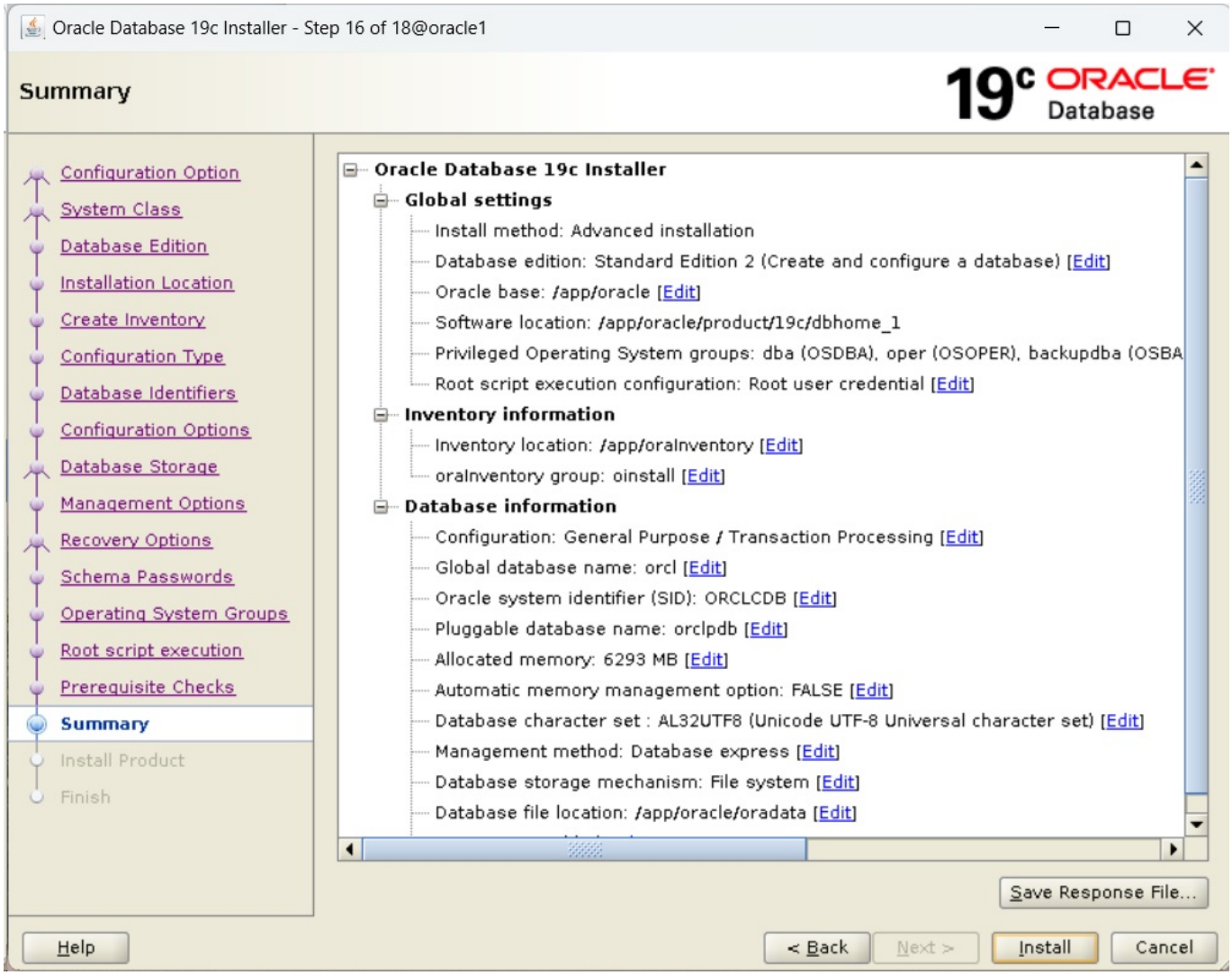

Oracle Database 19c Installer - Step 12 of 18@oracle1
Specify Schema Passwords
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
The starter database contains pre-loaded schemas, most of which have passwords that are expired and locked at the end of installation. After installation is complete, you must unlock and set new passwords for those accounts you want to use. Schemas used for database management and postinstallation functions are left unlocked, and passwords for these accounts will not expire. Specify the passwords for these accounts.
Use different passwords for these accounts
Password
Confirm password
SYS
SYSTEM
PDBADMIN
Use the same password for all accounts
Password:
Confirm password:
Help
< Back
Next >
Install
Cancel

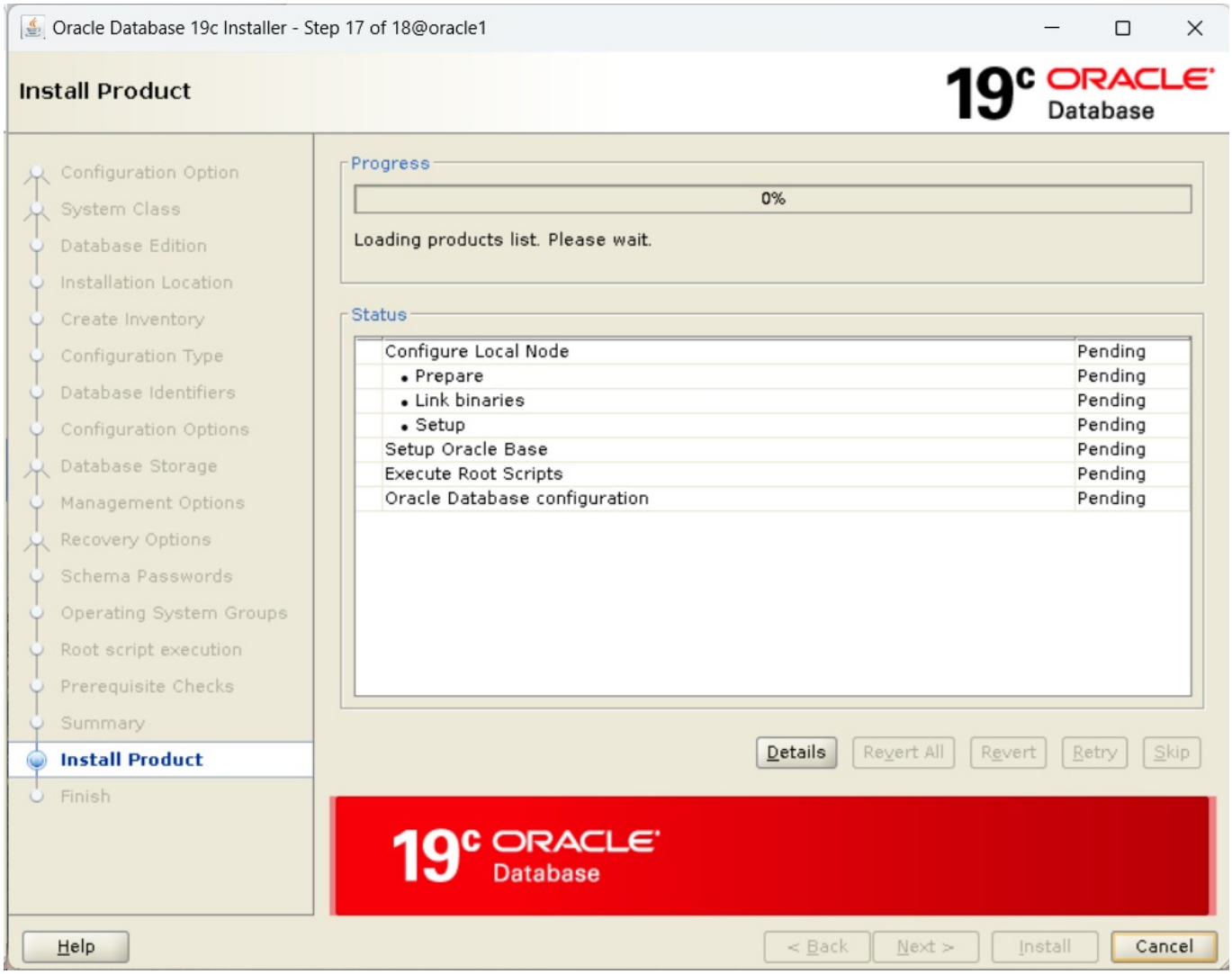

Oracle Database 19c Installer - Step 13 of 18@oracle1
Privileged Operating System groups
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
SYS privileges are required to create a database using operating system (OS) authentication. Membership in OS Groups grants the corresponding SYS privilege, eg. membership in OSDBA grants the SYSDBA privilege.
Database Administrator (OSDBA) group: dba
Database Operator (OSOPER) group (Optional): oper
Database Backup and Recovery (OSBACKUPDBA) group: backupdba
Data Guard administrative (OSDGDBA) group: dgdba
Encryption Key Management administrative (OSKMDBA) group: kmdba
Real Application Cluster administrative (OSRACDBA) group: racdba
Help
< Back
Next >
Install
Cancel

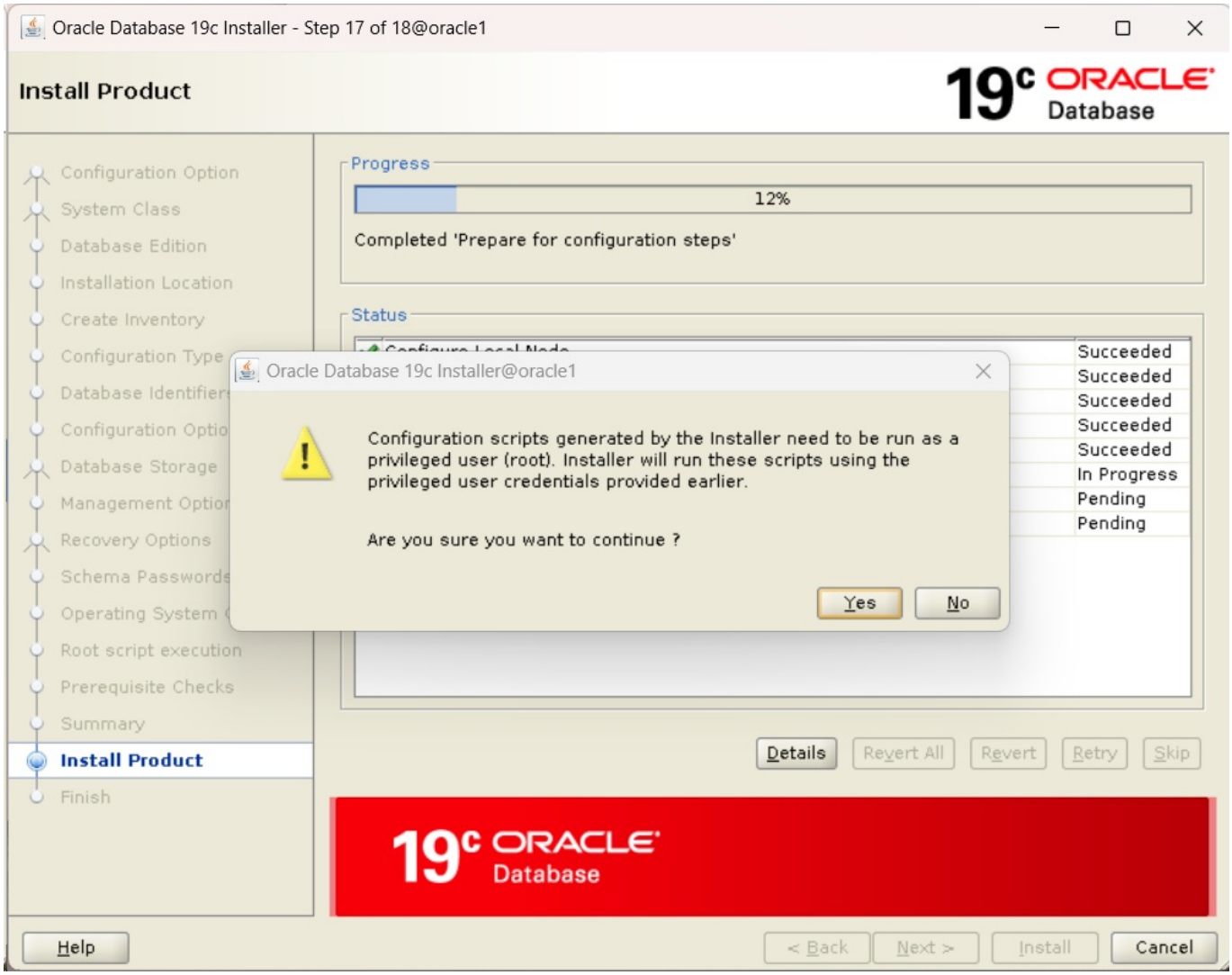

Oracle Database 19c Installer - Step 14 of 18@oracle1
Root script execution configuration
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
During the software configuration, certain operations have to be performed as "root" user. You can choose to have the installer perform these operations automatically by specifying inputs for one of the options below. The input specified will also be used by the installer to perform additional prerequisite checks.
Automatically run configuration scripts
Use "root" user credential
Password :
Use sudo
Program path : /usr/bin/sudo
Browse...
User name : oracle
Password :
Help
< Back
Next >
Install
Cancel

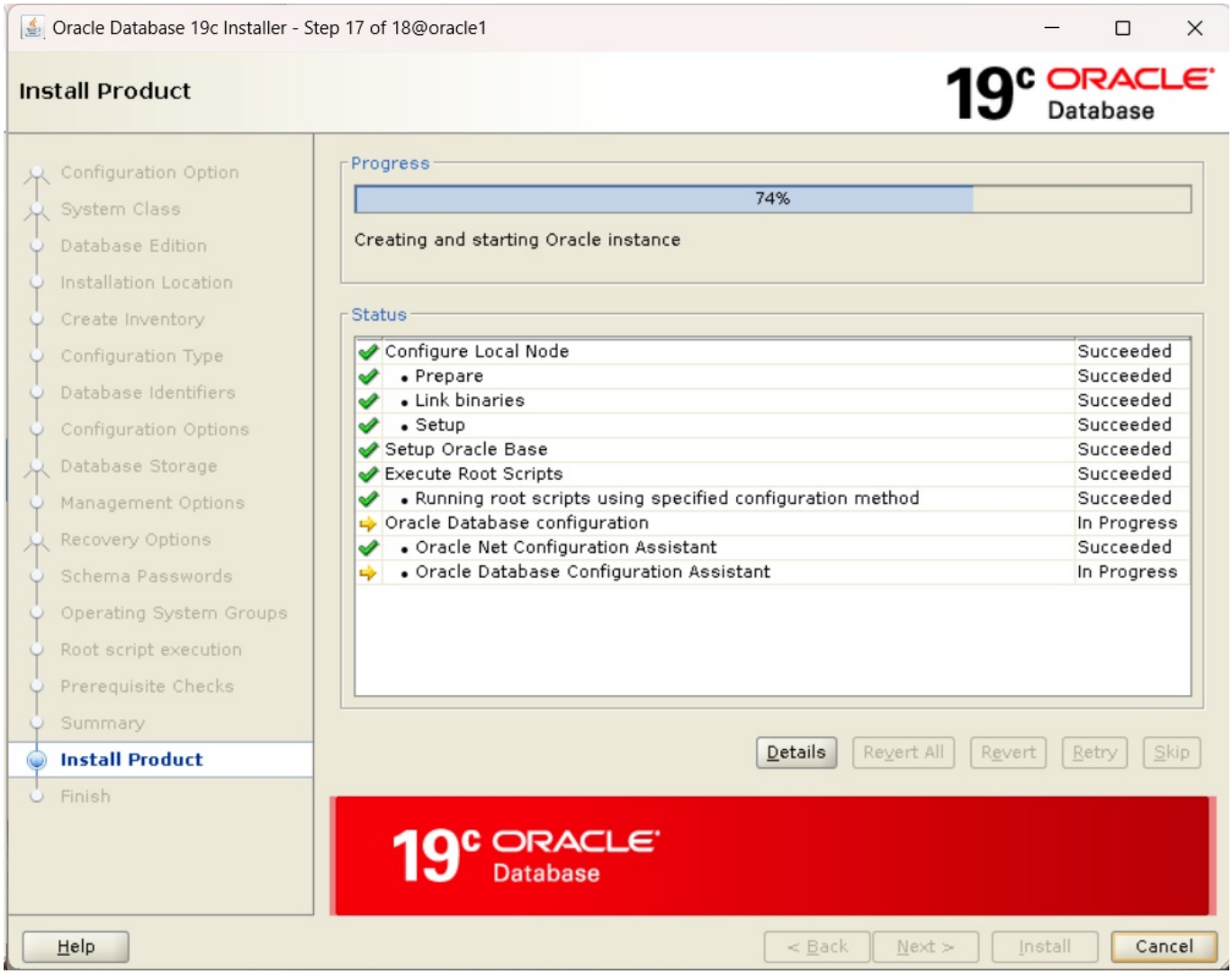

Oracle Database 19c Installer - Step 15 of 18@oracle1
Perform Prerequisite Checks
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.
82%
Checking Package: make-4.3 ...
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 15 of 18@oracle1
Perform Prerequisite Checks
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
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.
Check Again
Fix & Check Again
Show Failed
Ignore All
Checks
Status
Fixable
Checks
Swap Size
Ignored
No
This is a prerequisite condition to test whether sufficient total swap space is available on the system. (more details)
Expected Value : 15.3634GB (1.6109684E7KB)
Actual Value : 7.9961GB (8384508.0KB)
Help
< Back
Next >
Install
Cancel

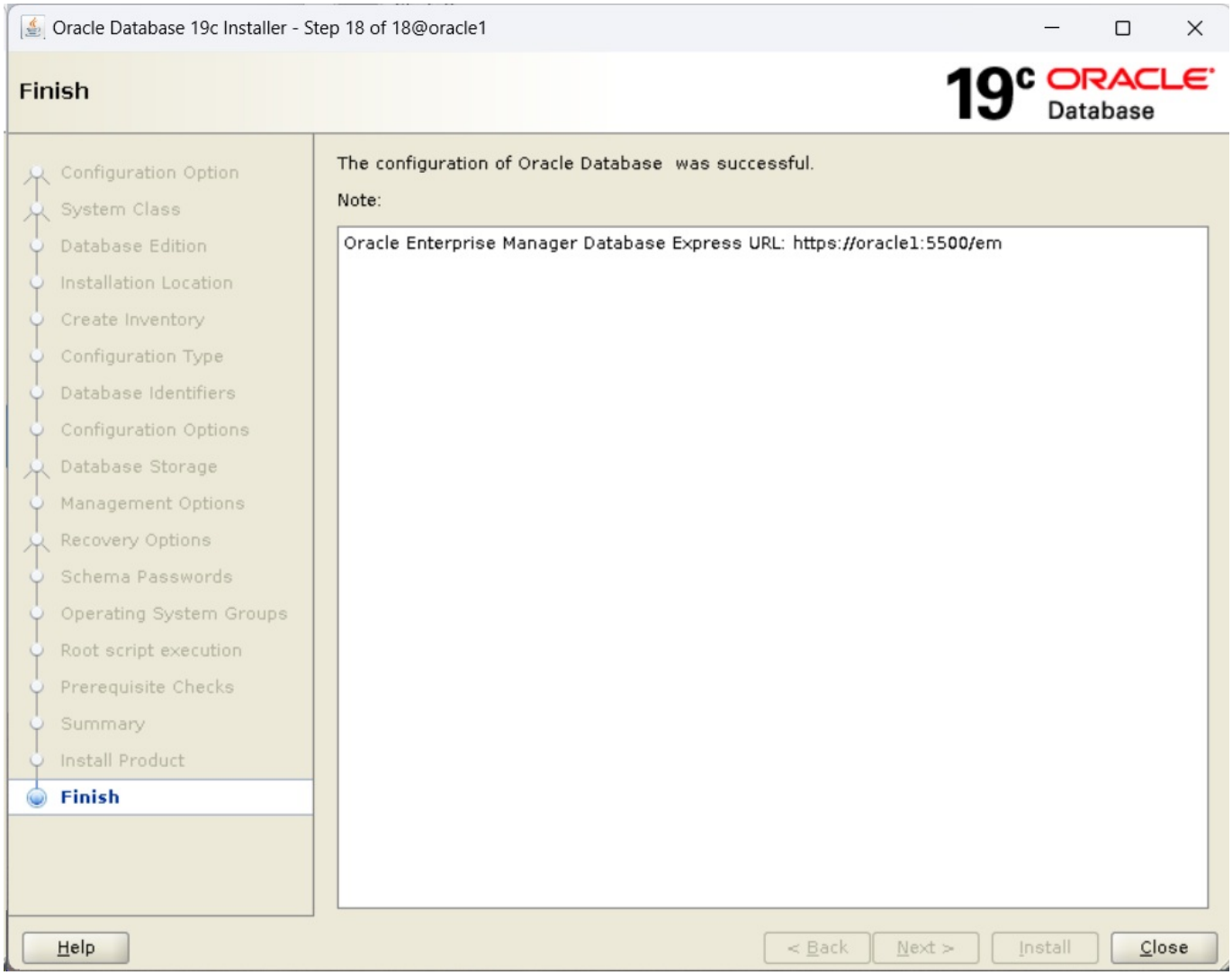

Oracle Database 19c Installer - Step 16 of 18@oracle1
Summary
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Oracle Database 19c Installer
Global settings
Install method: Advanced installation
Database edition: Standard Edition 2 (Create and configure a database) [Edit]
Oracle base: /app/oracle [Edit]
Software location: /app/oracle/product/19c/dbhome_1
Privileged Operating System groups: dba (OSDBA), oper (OSOPER), backupdba (OSBA
Root script execution configuration: Root user credential [Edit]
Inventory information
Inventory location: /app/oraInventory [Edit]
oraInventory group: oinstall [Edit]
Database information
Configuration: General Purpose / Transaction Processing [Edit]
Global database name: orcl [Edit]
Oracle system identifier (SID): ORCLCDB [Edit]
Pluggable database name: orclpdb [Edit]
Allocated memory: 6293 MB [Edit]
Automatic memory management option: FALSE [Edit]
Database character set : AL32UTF8 (Unicode UTF-8 Universal character set) [Edit]
Management method: Database express [Edit]
Database storage mechanism: File system [Edit]
Database file location: /app/oracle/oradata [Edit]
Save Response File...
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 17 of 18@oracle1
Install Product
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Options
Database Storage
Management Options
Recovery Options
Schema Passwords
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Progress
0%
Loading products list. Please wait.
Status
Configure Local Node Pending
• Prepare Pending
• Link binaries Pending
• Setup Pending
Setup Oracle Base Pending
Execute Root Scripts Pending
Oracle Database configuration Pending
Details
Revert All
Revert
Retry
Skip
19c ORACLE Database
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 17 of 18@oracle1
Install Product
19c ORACLE Database
Configuration Option
System Class
Database Edition
Installation Location
Create Inventory
Configuration Type
Database Identifiers
Configuration Optio
Database Storage
Management Optior
Recovery Options
Schema Passwords
Operating System
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Progress
12%
Completed 'Prepare for configuration steps'
Status
Succeeded
Succeeded
Succeeded
Succeeded
Succeeded
In Progress
Pending
Pending
Oracle Database 19c Installer@oracle1
Configuration scripts generated by the Installer need to be run as a privileged user (root). Installer will run these scripts using the privileged user credentials provided earlier.
Are you sure you want to continue ?
Yes
No
Details
Revert All
Revert
Retry
Skip
19c ORACLE Database
Help
< Back
Next >
Install
Cancel



이 과정에서 매우 오랜 시간이 걸린다. 8core 16GB 시스템에서
약 30분이 소요됐다.




```
[oracle@oracle1 ~]$ cd /app/oracle/product/19c/dbhome_1/
[oracle@oracle1 dbhome_1]$ ./runInstaller -applyRU ~/patch/37641958/
Preparing the home to patch...
Applying the patch /home/oracle/patch/37641958/...
Successfully applied the patch.
The log can be found at:
/tmp/InstallActions2025-07-11_09-40-51PM/installerPatchActions_2025-07-11_09
-40-51PM.log
Launching Oracle Database Setup Wizard...

The response file for this session can be found at:
/app/oracle/product/19c/dbhome_1/install/response/db_2025-07-11_09-40-51PM.r
sp

You can find the log of this install session at:
/tmp/InstallActions2025-07-11_09-40-51PM/installActions2025-07-11_09-40-51PM
.log
Moved the install session logs to:
 /app/oraInventory/logs/InstallActions2025-07-11_09-40-51PM
[oracle@oracle1 dbhome_1]$
```

설치가 완료되면 테스트 해보도록 한다.

```
[oracle@oracle1 dbhome_1]$ cd
[oracle@oracle1 ~]$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Fri Jul 11 22:35:08 2025
Version 19.27.0.0.0

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Connected to:
Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production
Version 19.27.0.0.0

SQL> SELECT banner_full FROM v$version;

BANNER_FULL
--------------------------------------------------------------------------------
----
Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production
Version 19.27.0.0.0

SQL>
```

참조링크

- https://oraclebank.tistory.com/65
- https://learnomate.org/oracle-rac-19c-19-27-patch-opatch-data-guard/

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Last update: **2026/07/31 03:21**