

```

oracle@localhost/source
drwxr-xr-x. 3 oracle oinstall      33 Feb  7 2018 ucp
drwxr-xr-x. 3 oracle oinstall      33 Feb  7 2018 jdbe
drwxr-xr-x. 2 oracle oinstall      25 Feb  7 2018 QOpatch
drwxr-xr-x. 4 oracle oinstall      63 Feb  7 2018 ords
drwxr-xr-x. 5 oracle oinstall     4096 Feb  7 2018 sdk
drwxr-xr-x. 6 oracle oinstall     4096 Feb  7 2018 apex
drwxr-xr-x. 22 oracle oinstall     4096 Feb  7 2018 sqldeveloper
drwxr-xr-x. 8 oracle oinstall      94 Feb  7 2018 odbc
drwxr-xr-x. 11 oracle oinstall     4096 Feb  7 2018 ctx
-rwx-----. 1 oracle oinstall     786 Feb  7 2018 root.sh.old
drwxr-x---. 14 oracle oinstall     4096 Jun  4 03:20 OPatch
drwxr-xr-x. 6 oracle oinstall      49 Jul 18 19:17 sqlplus
-rwx-----. 1 oracle oinstall     638 Jul 18 19:18 root.sh
drwxr-xr-x. 2 oracle oinstall     4096 Jul 18 19:39 jlib
drwxr-xr-x. 5 oracle oinstall     4096 Jul 18 19:41 sqlpatch
drwxr-xr-x. 7 oracle oinstall     4096 Jul 18 19:44 jdk
drwxr-xr-x. 13 oracle oinstall     4096 Jul 18 19:44 rdbms
drwxr-xr-x. 6 oracle oinstall      52 Jul 18 19:44 precomp
drwxr-xr-x. 5 oracle oinstall      36 Jul 18 19:44 perl
drwxr-xr-x. 7 oracle oinstall      59 Jul 18 19:44 ord
drwxr-xr-x. 7 oracle oinstall      60 Jul 18 19:44 opmn
drwxr-xr-x. 5 oracle oinstall      43 Jul 18 19:44 nls
drwxr-xr-x. 10 oracle oinstall     98 Jul 18 19:44 network
drwxr-xr-x. 9 oracle oinstall      91 Jul 18 19:44 md
drwxr-xr-x. 10 oracle oinstall     104 Jul 18 19:44 ldap
drwxr-xr-x. 8 oracle oinstall      76 Jul 18 19:44 javavm
drwxr-xr-x. 5 oracle oinstall      38 Jul 18 19:44 hs
drwxr-xr-x. 4 oracle oinstall      28 Jul 18 19:44 drdaas
drwxr-xr-x. 3 oracle oinstall      19 Jul 18 19:44 demo
drwxr-xr-x. 7 oracle oinstall      66 Jul 18 19:44 cv
drwxr-xr-x. 6 oracle oinstall      51 Jul 18 19:44 crs
drwxr-xr-x. 9 oracle oinstall      86 Jul 18 19:44 assistants
drwxr-xr-x. 8 oracle oinstall     4096 Jul 18 19:44 oui
drwxr-xr-x. 3 oracle oinstall    12288 Jul 18 19:44 lib
drwxr-x---. 13 oracle oinstall     4096 Jul 18 19:44 inventory
drwxr-xr-x. 5 oracle oinstall     4096 Jul 18 19:44 deinstall
drwxr-xr-x. 4 oracle oinstall      83 Jul 18 19:44 clone
drwxr-xr-x. 2 oracle oinstall     8192 Jul 18 19:44 bin
drwxr-xr-x. 2 oracle oinstall      98 Jul 18 19:44 addnode
drwxr-xr-x. 10 oracle oinstall     4096 Jul 18 19:53 install
-rw-r--r--. 1 oracle oinstall 4564649047 Nov 28 09:49 LINUX.X64_180000_db_home.zip
[oracle@localhost source]$ unzip LINUX.X64_180000_db_home.zip

```

yum install -y oracle-database-preinstall-18c

```

[oracle@localhost orachk]$ /source/suptools/orachk/orachk -profile preinstall
Running orachk
-----
PATH                : /source/suptools/orachk
VERSION             : 12.2.0.1.4_20171127
COLLECTIONS DATA LOCATION : /source/suptools/orachk
-----

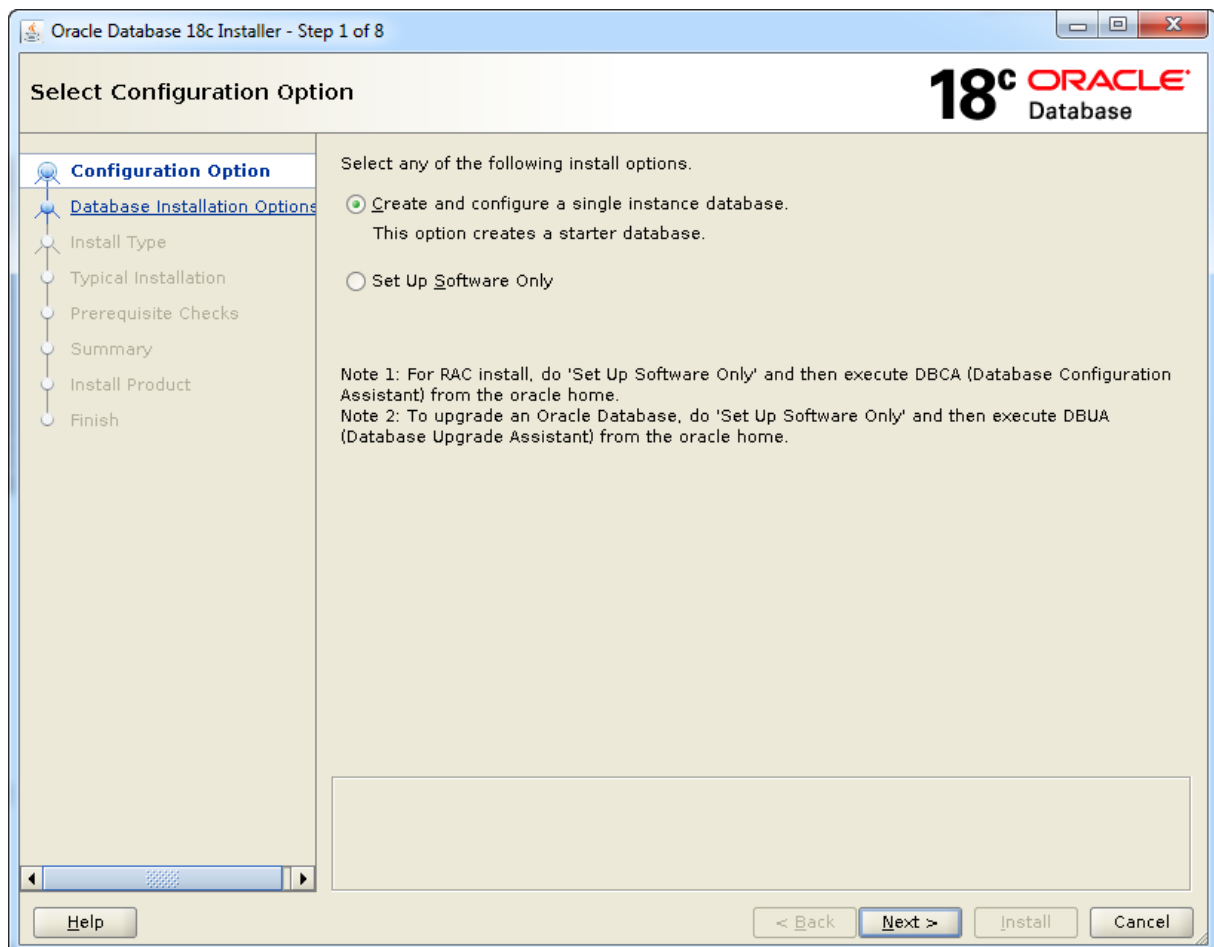
This version of orachk was released on 27-Nov-2017 and its older than 120 days. No new version of o
rachk is available in RAT UPGRADE LOC. It is highly recommended that you download the latest versio
n of orachk from my oracle support to ensure the highest level of accuracy of the data contained wi
thin the report.

Do you want to download latest version from my oracle support? [y/n] [y]

Enter your my oracle support username:- tom@tomas-solar.com
Enter your my oracle support password:-
Started downloading...

```

```
[oracle@localhost source]$ mkdir -p /u01/app/oracle/product/18.0.0/dbhome_1
[oracle@localhost source]$ mv * /u01/app/oracle/product/18.0.0/dbhome_1
[oracle@localhost source]$ ls
[oracle@localhost source]$ cd /u01/app/oracle/product/18.0.0/dbhome_1
[oracle@localhost dbhome 1]$ ./runInstaller
```



Select System Class



Configuration Option

System Class

Typical Installation

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.

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Select Install Type



- Configuration Option
- System Class
- Install Type**
- Typical Installation
- Prerequisite Checks
- Summary
- Install Product
- Finish

- Typical install
Perform full Oracle Database installation with basic configuration.
- Advanced install**
Allows advanced selections such as different passwords for the SYS, SYSMAN, SYSTEM and DBSNMP accounts, database character set, product languages, automated backups, custom installation, and alternative storage options such as Oracle Automatic Storage Management.

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Select Database Edition



[Configuration Option](#)

[System Class](#)

[Install Type](#)

Database Edition

[Installation Location](#)

Configuration Type

Database Identifiers

Configuration Options

Database Storage

Management Options

Recovery Options

Schema Passwords

Operating System Groups

Prerequisite Checks

Summary

Install Product

Finish

Which database edition do you want to install?

Enterprise Edition

Oracle Database 18c 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 18c Standard Edition 2 is a full-featured data management solution ideally suited to the needs of medium-sized businesses. It includes Oracle Real Application Clusters for enterprise-class availability and comes complete with its own Oracle Clusterware and storage management capabilities.

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Install

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Specify Installation Location



- Configuration Option
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- Database Edition
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- Configuration Type
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- 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:

This software directory is the Oracle Database home directory.

Software location: /u01/app/oracle/product/18.0.0/dbhome_1

Select Configuration Type



- Configuration Option
- System Class
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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.

Empty text area for notes or comments.

Specify Database Identifiers



- Configuration Option
- System Class
- Install Type
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- Installation Location
- Configuration Type
- Database Identifiers**
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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:

Oracle system identifier (SID):

Create as Container database

Creates a database container for consolidating multiple databases into a single database and enables database virtualization.

Pluggable database name:

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Specify Configuration Options



- Configuration Option
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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 4000 5568 4,000 72 %

SGA target:	3000	MB
PGA aggregate target:	1000	MB
<hr/>		
Target database memory:	4000	MB

Specify Database Storage Options



- [Configuration Option](#)
- [System Class](#)
- [Install Type](#)
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- [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?

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.

Specify Management Options



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- [System Class](#)
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- [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 18c centrally. Specify the details of the Cloud Control configuration to manage your database.

Register with Enterprise Manager (EM) Cloud Control

O M S Host:	<input type="text"/>
O M S Port:	<input type="text"/>
EM Admin User Name:	<input type="text"/>
EM Admin Password:	<input type="password"/>

Specify Recovery Options



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- [System Class](#)
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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:

Oracle Automatic Storage Management

Specify Schema Passwords



- Configuration Option
- System Class
- Install Type
- Database Edition
- Installation Location
- Configuration Type
- Database Identifiers
- Configuration Options
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- Recovery Options
- Schema Passwords**
- Operating System Groups
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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	<input type="text"/>	<input type="text"/>
SYSTEM	<input type="text"/>	<input type="text"/>

Use the same password for all accounts

Password: Confirm password:

Privileged Operating System groups



- Configuration Option
- System Class
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- Database Identifiers
- Configuration Options
- Database Storage
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- Recovery Options
- Schema Passwords

- Operating System Groups**
- Prerequisite Checks
- Summary
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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):	dba
Database Backup and Recovery (OSBACKUPDBA) group:	dba
Data Guard administrative (OSDGDBA) group:	dba
Encryption Key Management administrative (OSKMDBA) group:	dba
Real Application Cluster administrative (OSRACDBA) group:	dba



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Perform Prerequisite Checks



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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.

Checks	Status	Fixable
Checks		
Physical Memory	Ignored	No
Swap Size	Ignored	No

This is a prerequisite condition to test whether the system has at least 8GB (8388608.0KB) of total physical memory. [\(more details\)](#)
Expected Value : 8GB (8388608.0KB)
Actual Value : 5.4406GB (5704856.0KB)

Summary



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- Summary**

- Install Product
- Finish

Oracle Database 18c Installer

Global settings

- Install method: Advanced installation [\[Edit\]](#)
- Database edition: Enterprise Edition (Create and configure a database) [\[Edit\]](#)
- Oracle base: /u01/app/oracle [\[Edit\]](#)
- Software location: /u01/app/oracle/product/18.0.0/dbhome_1
- Privileged Operating System groups: dba (OSDBA), dba (OSOPER), dba (OSBACKUPDBA)

Database information

- Configuration: General Purpose / Transaction Processing [\[Edit\]](#)
- Global database name: orcl18c [\[Edit\]](#)
- Oracle system identifier (SID): orcl18c [\[Edit\]](#)
- Allocated memory: 4000 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: /oradata [\[Edit\]](#)
- Recovery: Disabled [\[Edit\]](#)

[Save Response File...](#)

[Help](#)

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Install Product



- Configuration Option
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- Install Product**
- Finish

Progress

0%

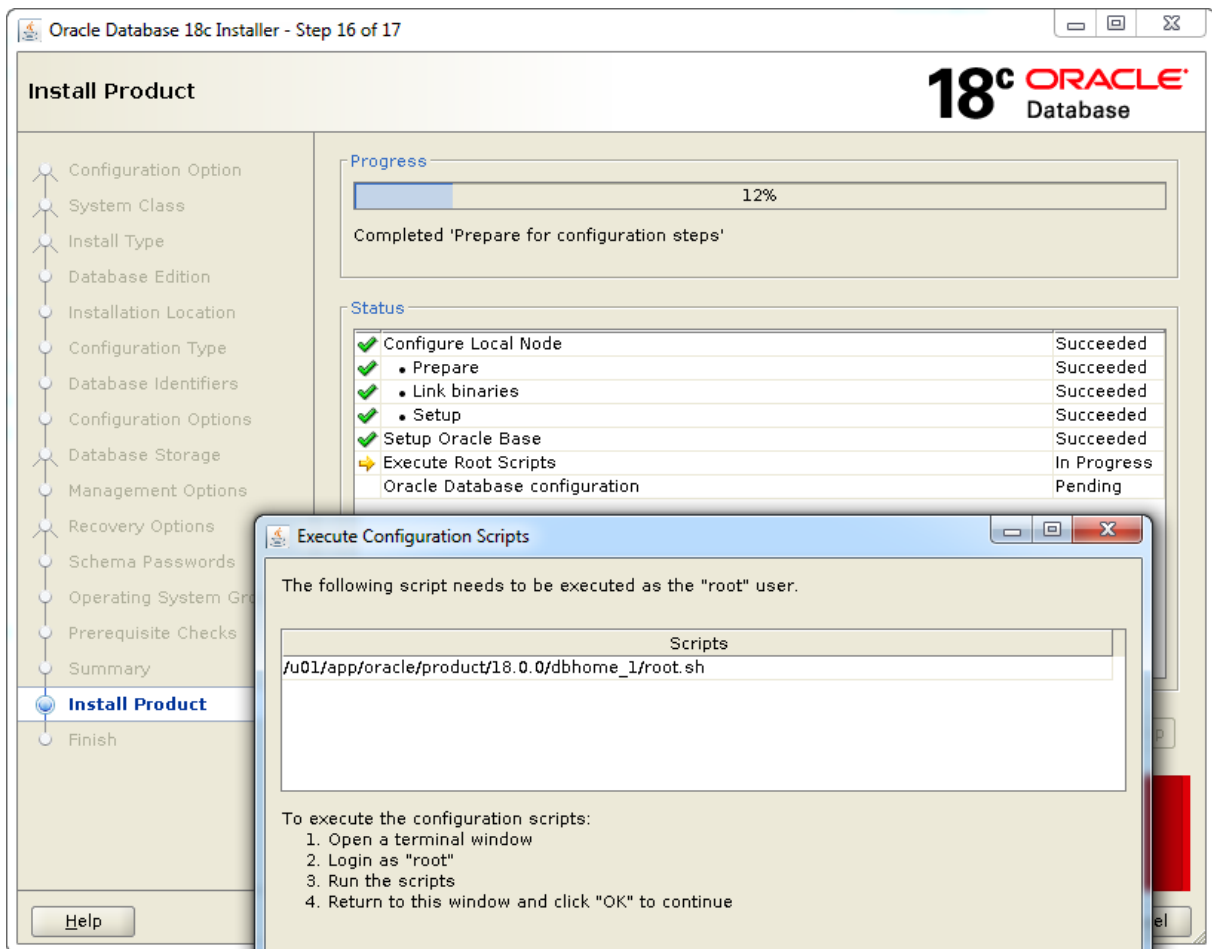
Central Inventory is not locked.

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](#)





```
[root@localhost oradata]# /u01/app/oracle/product/18.0.0/dbhome_1/root.sh
Performing root user operation.

The following environment variables are set as:
  ORACLE_OWNER= oracle
  ORACLE_HOME=  /u01/app/oracle/product/18.0.0/dbhome_1

Enter the full pathname of the local bin directory: [/usr/local/bin]:
The contents of "dbhome" have not changed. No need to overwrite.
The file "oraenv" already exists in /usr/local/bin. Overwrite it? (y/n)
[n]: y
  Copying oraenv to /usr/local/bin ...
The file "coraenv" already exists in /usr/local/bin. Overwrite it? (y/n)
[n]: y
  Copying coraenv to /usr/local/bin ...

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.
Do you want to setup Oracle Trace File Analyzer (TFA) now ? yes|no] :

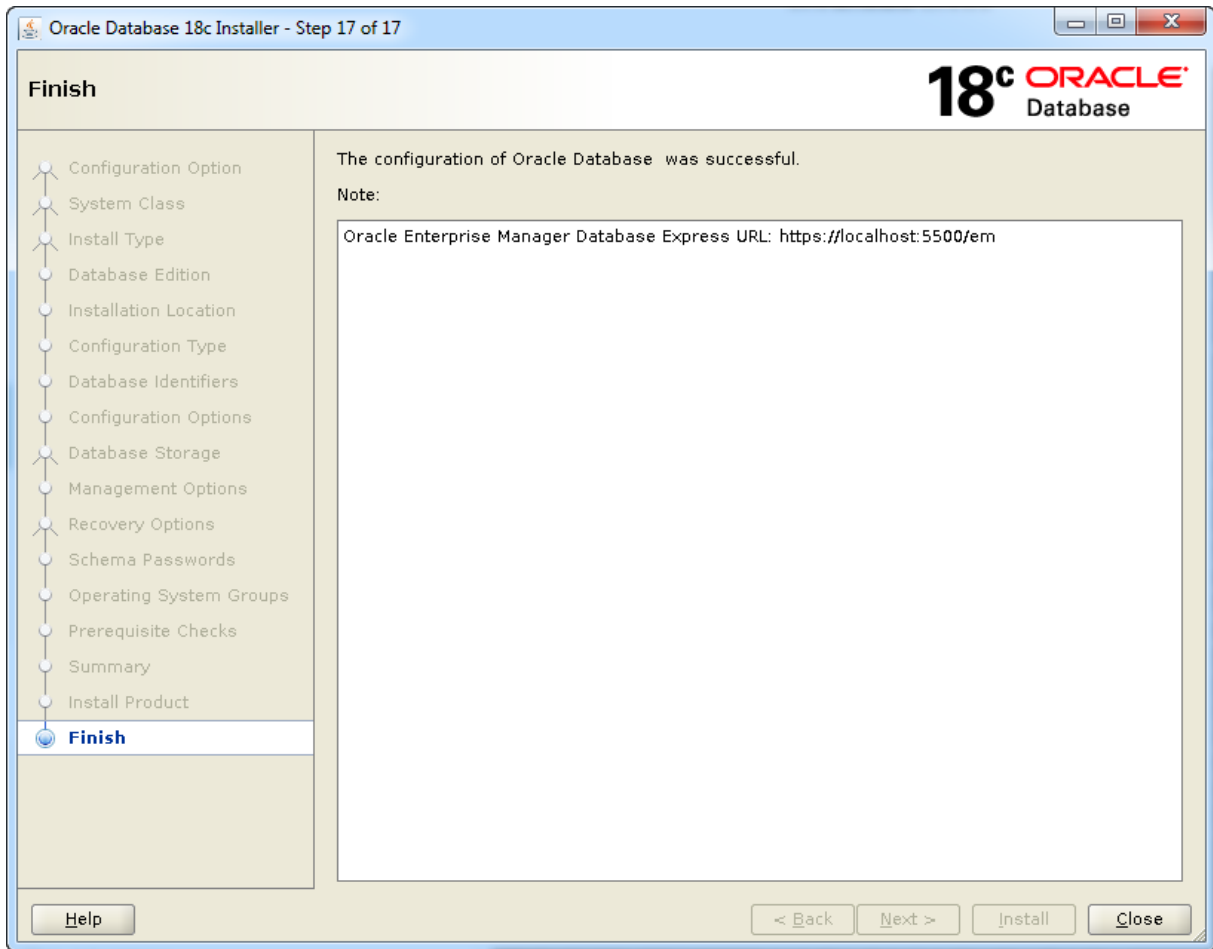
Oracle Trace File Analyzer (TFA - Non Daemon Mode) is available at :
  /u01/app/oracle/product/18.0.0/dbhome_1/suptools/tfa/release/tfa_home/bin/tfactl

Note :
1. tfactl will use TFA Daemon Mode if TFA already running in Daemon Mode and user has access to TFA
2. tfactl will configure TFA Non Daemon Mode only if user has no access to TFA Daemon mode or TFA D
aemon mode is not installed

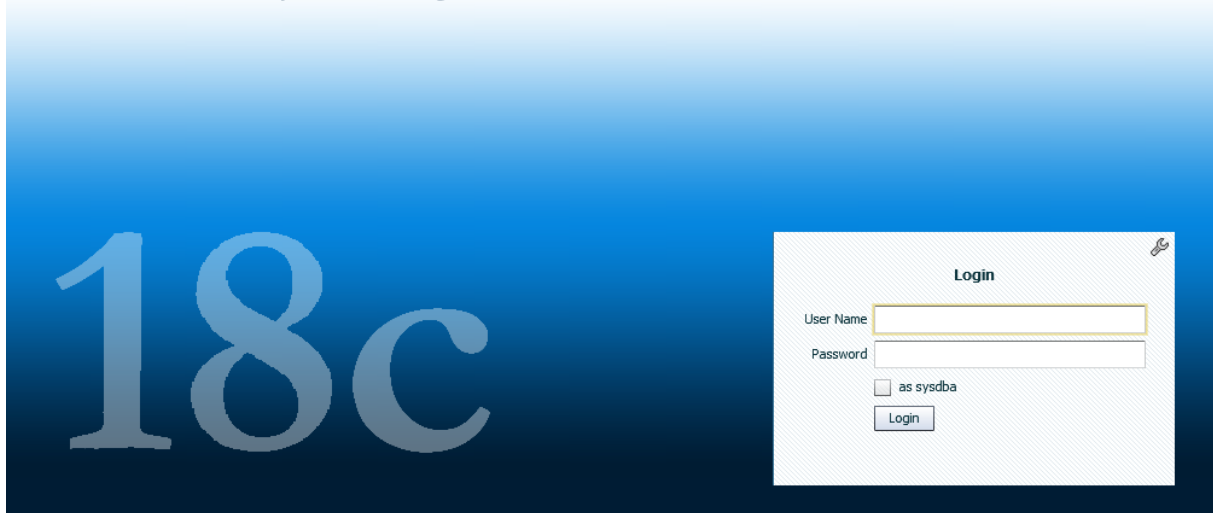
OR

Oracle Trace File Analyzer (TFA - Daemon Mode) can be installed by running this script :
  /u01/app/oracle/product/18.0.0/dbhome_1/suptools/tfa/release/tfa_home/install/roottfa.sh

[root@localhost oradata]#
```



ORACLE[®] Enterprise Manager Database Express 18c

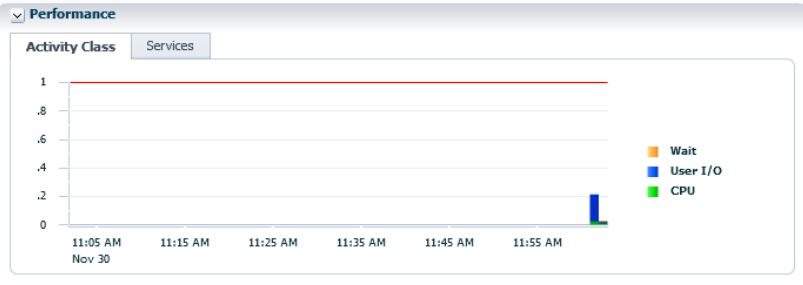


Database Home

Page Refreshed 12:00:29 PM GMT+0100 Auto Refresh 1 Minute

Status

- Up Time: 2 minutes
- Type: Single instance (ord18c)
- Version: 18.3.0.0.0 Enterprise Edition
- Database Name: ORCL18C
- Instance Name: ord18c
- Platform Name: Linux x86 64-bit
- Host Name: localhost.localdomain
- Thread: 1
- Archiver: Stopped



Incidents - Last 24 Hours

Inst...	Time	Inci...	Pro...	Error
No Incidents				

Resources

Host CPU

Active Sessions

Memory

Data Storage

Running Jobs

Ins...	Owner	Name	Ela...	Started
No Running Jobs				

SQL Monitor - Last Hour (20 max)

Status	Duration	Type	ID	User Name	Parallel	Database Time	SQL Text
No SQL executions were monitored							