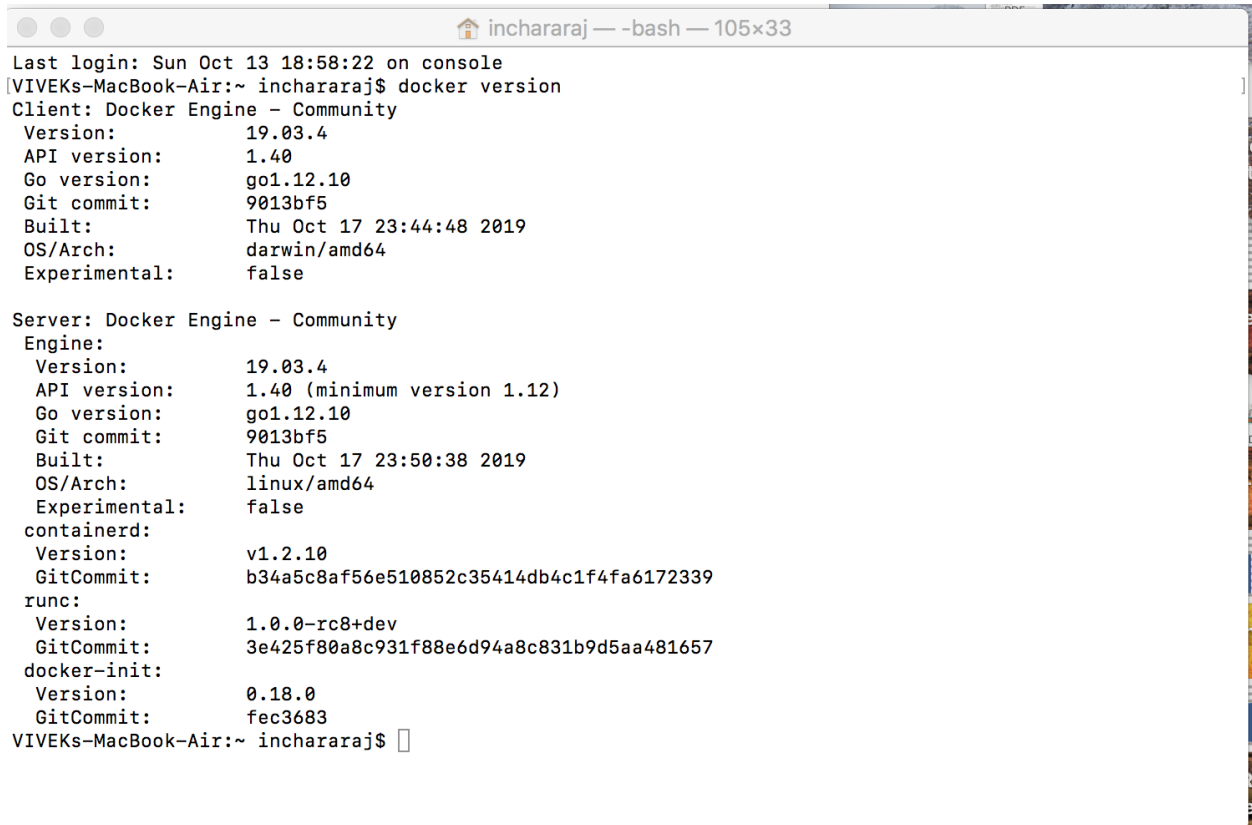


## 1. Install Docker

Create your docker account and Download Docker for Mac from [the official website](#). (Follow the steps in the link to install docker)

Run command 'docker version' to make sure docker is installed.

A terminal window titled 'inchararaj — -bash — 105x33' showing the output of the 'docker version' command. The output is divided into two sections: 'Client: Docker Engine - Community' and 'Server: Docker Engine - Community'. The client section lists version 19.03.4, API version 1.40, Go version go1.12.10, Git commit 9013bf5, built on Thu Oct 17 23:44:48 2019, OS/Arch darwin/amd64, and Experimental false. The server section lists version 19.03.4, API version 1.40 (minimum version 1.12), Go version go1.12.10, Git commit 9013bf5, built on Thu Oct 17 23:50:38 2019, OS/Arch linux/amd64, and Experimental false. Below this, it shows details for 'containerd' (version v1.2.10, GitCommit b34a5c8af56e510852c35414db4c1f4fa6172339), 'runc' (version 1.0.0-rc8+dev, GitCommit 3e425f80a8c931f88e6d94a8c831b9d5aa481657), and 'docker-init' (version 0.18.0, GitCommit fec3683). The prompt 'VIVEKs-MacBook-Air:~ inchararaj\$' is visible at the bottom.

```
inchararaj — -bash — 105x33
Last login: Sun Oct 13 18:58:22 on console
VIVEKs-MacBook-Air:~ inchararaj$ docker version
Client: Docker Engine - Community
 Version:           19.03.4
 API version:       1.40
 Go version:        go1.12.10
 Git commit:        9013bf5
 Built:             Thu Oct 17 23:44:48 2019
 OS/Arch:           darwin/amd64
 Experimental:      false

Server: Docker Engine - Community
 Engine:
  Version:           19.03.4
  API version:       1.40 (minimum version 1.12)
  Go version:        go1.12.10
  Git commit:        9013bf5
  Built:             Thu Oct 17 23:50:38 2019
  OS/Arch:           linux/amd64
  Experimental:      false
 containerd:
  Version:           v1.2.10
  GitCommit:         b34a5c8af56e510852c35414db4c1f4fa6172339
 runc:
  Version:           1.0.0-rc8+dev
  GitCommit:         3e425f80a8c931f88e6d94a8c831b9d5aa481657
 docker-init:
  Version:           0.18.0
  GitCommit:         fec3683
VIVEKs-MacBook-Air:~ inchararaj$
```

## 2. Store Oracle database in your Docker using command

```
docker pull epiclabs/docker-oracle-xe-11g
```

```
VIVEKs-MacBook-Air:~ inchararaj$ docker pull epiclabs/docker-oracle-xe-11g
Using default tag: latest
latest: Pulling from epiclabs/docker-oracle-xe-11g
d3938036b19c: Pull complete
a9b30c108bda: Pull complete
67de21feec18: Pull complete
817da545be2b: Pull complete
d967c497ce23: Pull complete
b58fa2921c87: Pull complete
646b6a0c7172: Pull complete
af63078e92a7: Pull complete
9ef8565ff630: Pull complete
Digest: sha256:15bcd9747e330d01484cd033d5272189d1488770a57b519ba511e816351027b0
Status: Downloaded newer image for epiclabs/docker-oracle-xe-11g:latest
docker.io/epiclabs/docker-oracle-xe-11g:latest
VIVEKs-MacBook-Air:~ inchararaj$
```

### 3. Create a container

- Run the instance using below command

```
docker run -d -p 1521:1521 epiclabs/docker-oracle-xe-11g
```

A hash code will be returned

- Check if instance is running

```
docker ps
```

```
VIVEKs-MacBook-Air:~ inchararaj$ docker run -d -p 1521:1521 epiclabs/docker-oracle-xe-11g
9e87337ae42ca1ce224679b4afcc442c5300e87ab3848e02bab4ac75c60b39c2
VIVEKs-MacBook-Air:~ inchararaj$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
9e87337ae42c	epiclabs/docker-oracle-xe-11g	"/usr/sbin/startup.sh"	45 seconds ago	Up 44 seconds	0.0.0.0:1521->1521/tcp, 8080/tcp	optimistic_feynman

```
VIVEKs-MacBook-Air:~ inchararaj$
```

### 4. (Option 1) Use Terminal

run command:

(Use `docker logs -f <your hash code>` to view logs)

```
docker exec -it < your hash code/ container name> /bin/bash
```

```
sqlplus system/oracle@//localhost:1521/xe
```

```
[VIVEKs-MacBook-Air:~ inchararaj$ docker exec -it 9e87337ae42c /bin/bash
root@9e87337ae42c:/# sqlplus system/oracle@//localhost:1521/xe

SQL*Plus: Release 11.2.0.2.0 Production on Wed Oct 30 17:23:15 2019

Copyright (c) 1982, 2011, Oracle. All rights reserved.

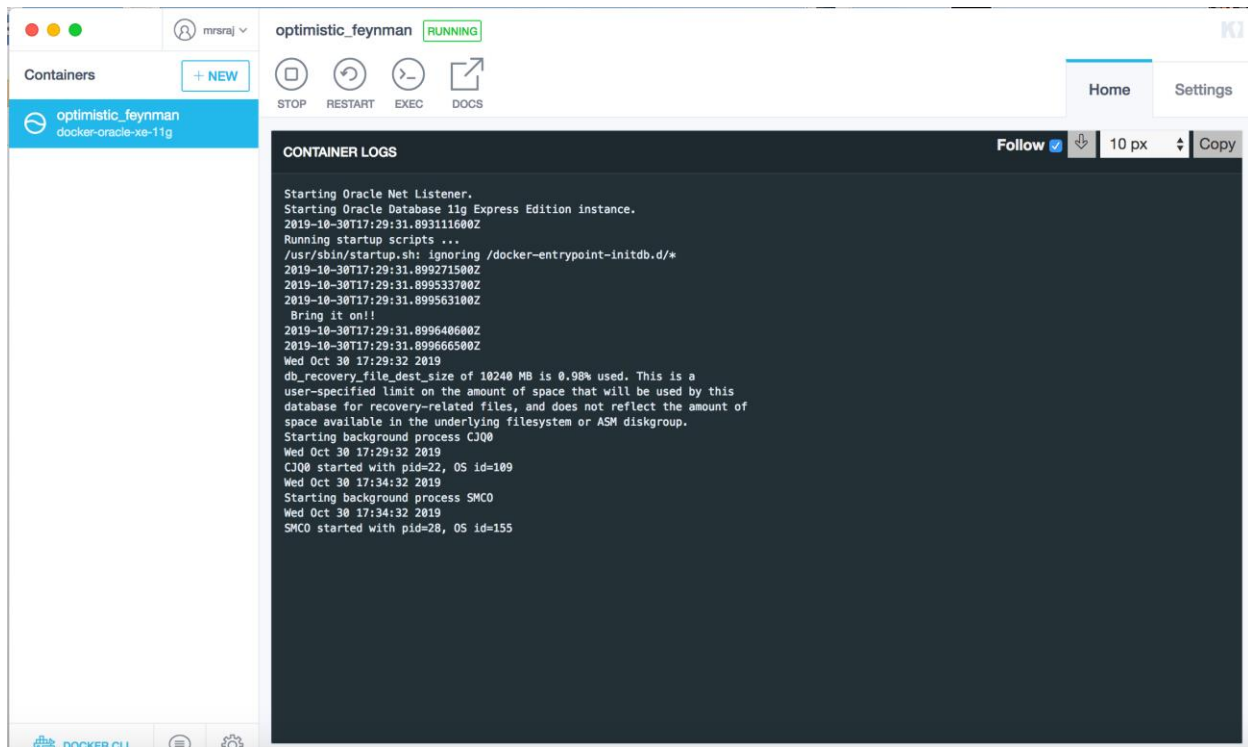
ERROR:
ORA-28002: the password will expire within 7 days


Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL> 
```

Use Kitematic to manage the container  
Click on the whale in the top status bar  
Select Kitematic & follow steps to download & install it

After use, stop the container.  
To start again, locate your container, Start the container if stopped



Click EXEC button, a terminal will open or use terminal to Run below commands:  
 docker exec -it <container name> /bin/bash

sqlplus system/oracle@//localhost:1521/xe

```
# sqlplus system/oracle@//localhost:1521/xe
SQL*Plus: Release 12.1.0.2.0 Production on Sat Oct 26 22:46:14 2019
Copyright (c) 1982, 2014, Oracle. All rights reserved.

Connected to:
Oracle Database 12c Standard Edition Release 12.1.0.2.0 - 64bit Production
```

##### 5. (Optional) Connect to oracle database using SQL developer

- You can download sql developer from [here](#).
- Unzip and install it.
- Test the connection to your oracle database using the username **system** and password **oracle**.  
Choose any connection name. You can use the default hostname, port and SID.

The screenshot shows the 'New / Select Database Connection' dialog box in NetBeans IDE. The dialog is titled 'New / Select Database Connection'. It has a tabbed interface with 'Connection Na...' and 'Connection D...'. The 'Oracle' tab is selected. The 'Connection Name' field is 'Oracle System'. The 'Username' field is 'system' and the 'Password' field is masked with '\*\*\*\*\*'. There is a 'Save Password' checkbox which is checked, and a 'Connection Color' button. Below these, the 'Connection Type' is set to 'Basic' and the 'Role' is 'default'. The 'Hostname' is 'localhost' and the 'Port' is '1521'. The 'SID' radio button is selected with the value 'xe', while the 'Service name' radio button is unselected. At the bottom, there are checkboxes for 'OS Authentication' and 'Kerberos Authentication', and an 'Advanced...' button. The 'Status' bar at the bottom left says 'Status : Success'. At the bottom right, there are buttons for 'Help', 'Save', 'Clear', 'Test', 'Connect', and 'Cancel'.

Connection Na...	Connection D...
Oracle System	

Connection Name: Oracle System

Username: system

Password: \*\*\*\*\*

☒ Save Password

**Oracle**

Connection Type: Basic Role: default

Hostname: localhost

Port: 1521

☒ SID: xe

☐ Service name:

☐ OS Authentication ☐ Kerberos Authentication 

Status : Success

6. Use same credentials as above for accessing oracle database from NetBeans IDE.