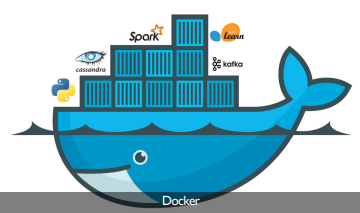


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ORACLE - DOCKER

Source: <https://www.petereitrag.com/item/886.cfm>

1



ORACLE
DATABASE

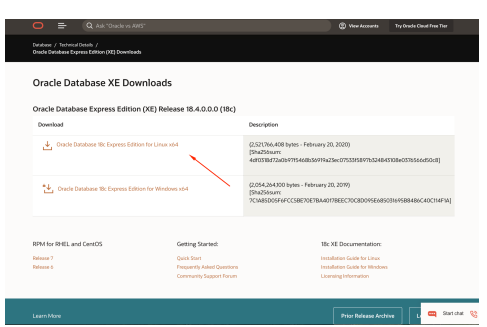
PREPARE

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2

ORACLE XE 18C

- Link: <https://www.oracle.com/database/technologies/xe-downloads.html>
- Only download file

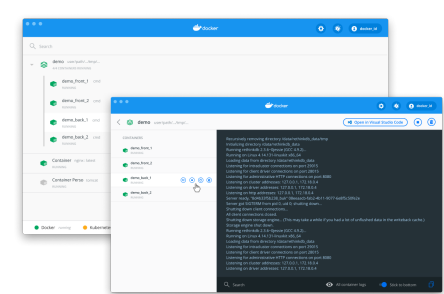


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3

DOCKER DESKTOP

- Link: <https://www.docker.com/products/docker-desktop>



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BUILD DOCKER IMAGE

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ORACLE DOCKER FILE

- Oracle có 1 bộ Docker File cho các sản phẩm của Oracle

- Cmd:
`git clone https://github.com/oracle/docker-images.git`

| Name | Date Modified |
|-----------------------------|------------------|
| ▶ .git | Today at 2:21 PM |
| ▶ .github | Today at 1:14 PM |
| ▶ ContainerCloud | Today at 1:14 PM |
| ▶ GraalVM | Today at 1:14 PM |
| ▶ NoSQL | Today at 1:14 PM |
| ▶ OpenDK | Today at 1:14 PM |
| ▶ OracleBI | Today at 1:14 PM |
| ▶ OracleCloudInfrastructure | Today at 1:14 PM |
| ▶ OracleCoherence | Today at 1:14 PM |
| ▶ OracleDatabase | Today at 1:14 PM |
| ▶ OracleDataIntegrator | Today at 1:14 PM |
| ▶ OracleEDQ | Today at 1:14 PM |
| ▶ OracleFMWInfrastructure | Today at 1:14 PM |
| ▶ OracleGoldenGate | Today at 1:14 PM |
| ▶ OracleHTTPServer | Today at 1:14 PM |
| ▶ OracleInstantClient | Today at 1:14 PM |
| ▶ OracleJava | Today at 1:14 PM |
| ▶ OracleRestDataServices | Today at 1:14 PM |
| ▶ OracleSDSuite | Today at 1:14 PM |
| ▶ OracleTuxedo | Today at 1:14 PM |
| ▶ OracleUnifiedDirectory | Today at 1:14 PM |
| ▶ OracleWebCenterSites | Today at 1:14 PM |
| ▶ OracleWebLogic | Today at 1:14 PM |
| ▶ CONTRIBUTING.md | Today at 1:14 PM |
| ▶ README.md | Today at 1:14 PM |
| ▶ samples | Today at 1:14 PM |
| ▶ tests | Today at 1:14 PM |
| ▶ README.md | Today at 1:14 PM |
| ▶ LICENSE | Today at 1:14 PM |

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ORACLE DOCKER FILE

- Copy Oracle binary file to Dockerfile dir.

| Name | Date Modified |
|-----------------------------|------------------|
| ▶ .git | Today at 2:21 PM |
| ▶ .github | Today at 1:14 PM |
| ▶ ContainerCloud | Today at 1:14 PM |
| ▶ GraalVM | Today at 1:14 PM |
| ▶ NoSQL | Today at 1:14 PM |
| ▶ OpenDK | Today at 1:14 PM |
| ▶ OracleBI | Today at 1:14 PM |
| ▶ OracleCloudInfrastructure | Today at 1:14 PM |
| ▶ OracleCoherence | Today at 1:14 PM |
| ▶ OracleDatabase | Today at 1:14 PM |
| ▶ OracleDataIntegrator | Today at 1:14 PM |
| ▶ OracleEDQ | Today at 1:14 PM |
| ▶ OracleFMWInfrastructure | Today at 1:14 PM |
| ▶ OracleGoldenGate | Today at 1:14 PM |
| ▶ OracleHTTPServer | Today at 1:14 PM |
| ▶ OracleInstantClient | Today at 1:14 PM |
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| ▶ OracleTuxedo | Today at 1:14 PM |
| ▶ OracleUnifiedDirectory | Today at 1:14 PM |
| ▶ OracleWebCenterSites | Today at 1:14 PM |
| ▶ OracleWebLogic | Today at 1:14 PM |
| ▶ CONTRIBUTING.md | Today at 1:14 PM |
| ▶ README.md | Today at 1:14 PM |
| ▶ samples | Today at 1:14 PM |
| ▶ tests | Today at 1:14 PM |
| ▶ README.md | Today at 1:14 PM |
| ▶ LICENSE | Today at 1:14 PM |

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BUILD DOCKER IMAGE

- Cmd: `./buildDockerImage.sh -x -v 18.4.0`

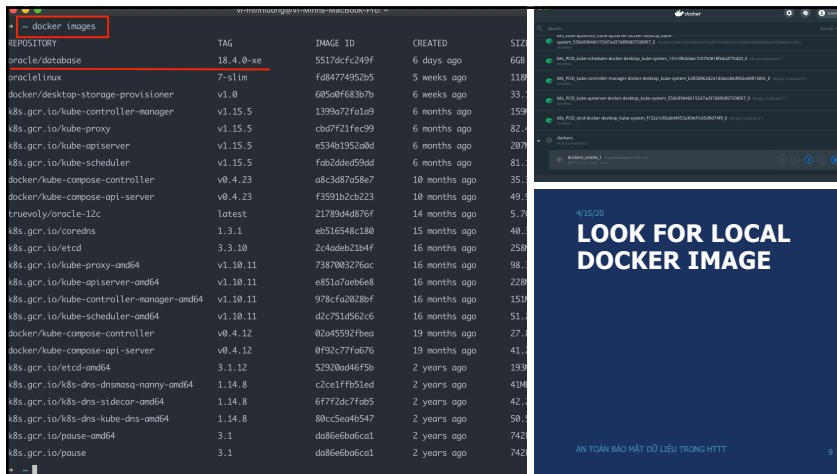
- The -x tells the script that you are installing the express edition, and the -v 18.4.0 tells it which version you are installing.
- This step will take a few minutes.

| | |
|---|------------------|
| ▶ OracleBI | Today at 1:14 PM |
| ▶ OracleCloudInfrastructure | Today at 1:14 PM |
| ▶ OracleCoherence | Today at 1:14 PM |
| ▶ OracleDatabase | Today at 1:14 PM |
| ▶ RAC | Today at 1:14 PM |
| ▶ SingleInstance | Today at 1:14 PM |
| ▶ dockerfiles | Today at 1:14 PM |
| ▶ 11.2.0.2 | Today at 1:14 PM |
| ▶ 12.1.0.2 | Today at 1:14 PM |
| ▶ 12.2.0.1 | Today at 1:14 PM |
| ▶ 18.3.0 | Today at 1:14 PM |
| ▶ 18.4.0 | Today at 1:14 PM |
| ▶ Dockerfile.xe | Today at 1:14 PM |
| ▶ oracle-xe-18c.conf | Today at 1:14 PM |
| ▶ oracle-database-xe-18c-1.0-1.x86_64.rpm | Today at 1:14 PM |
| ▶ checkDBStatus.sh | Today at 1:14 PM |
| ▶ checkSpace.sh | Today at 1:14 PM |
| ▶ runOracle.sh | Today at 1:14 PM |
| ▶ setPassword.sh | Today at 1:14 PM |
| ▶ 19.3.0 | Today at 1:14 PM |
| ▶ buildDockerImage.sh | Today at 1:14 PM |
| ▶ samples | Today at 1:14 PM |
| ▶ tests | Today at 1:14 PM |
| ▶ FAQ.md | Today at 1:14 PM |
| ▶ README.md | Today at 1:14 PM |
| ▶ COPYRIGHT | Today at 1:14 PM |
| ▶ LICENSE | Today at 1:14 PM |
| ▶ README.md | Today at 1:14 PM |
| ▶ LICENSE | Today at 1:14 PM |
| ▶ OracleDataIntegrator | Today at 1:14 PM |
| ▶ OracleEDQ | Today at 1:14 PM |
| ▶ OracleFMWInfrastructure | Today at 1:14 PM |
| ▶ OracleGoldenGate | Today at 1:14 PM |
| ▶ OracleHTTPServer | Today at 1:14 PM |
| ▶ OracleInstantClient | Today at 1:14 PM |
| ▶ OracleJava | Today at 1:14 PM |
| ▶ OracleRestDataServices | Today at 1:14 PM |

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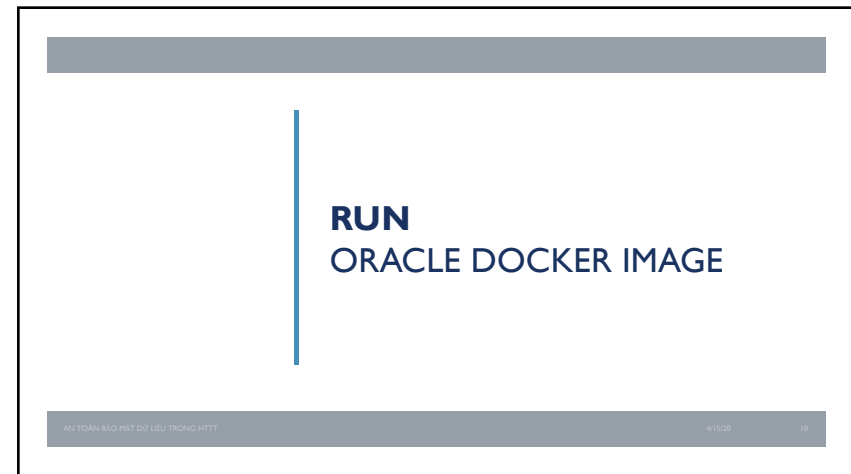
8



The screenshot shows the Docker Desktop interface. On the left, a list of Docker images is displayed with columns for Repository, Tag, Image ID, Created, and Size. The 'oracle/database' image is highlighted. On the right, the Docker Desktop overview shows the 'LOOK FOR LOCAL DOCKER IMAGE' button and a warning about data security.

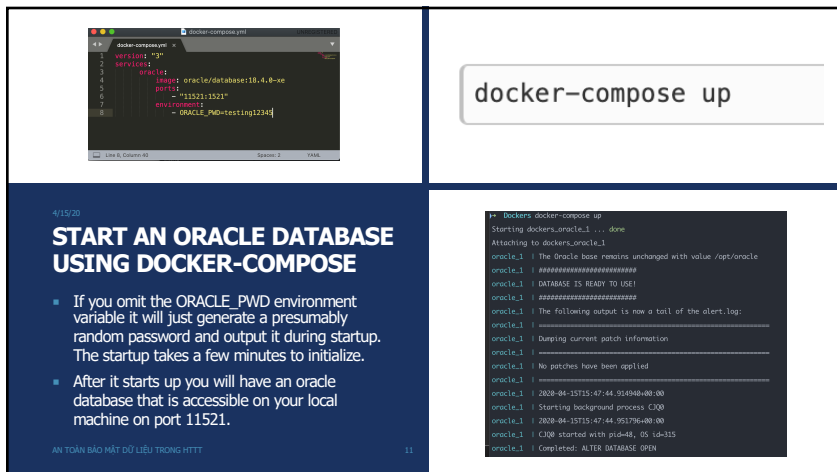
| REPOSITORY | TAG | IMAGE ID | CREATED | SIZE |
|--|-----------|--------------|---------------|------|
| oracle/database | 18.4.0-xe | 5517dcfc249f | 6 days ago | 60B |
| oraclelinux | 7-eln | fd84774952b5 | 5 weeks ago | 11B |
| docker/desktop-storage-provisioner | v1.0 | 605a0f683b7b | 6 weeks ago | 33B |
| k8s.gcr.io/kube-controller-manager | v1.15.5 | 1399a72f61a9 | 6 months ago | 159B |
| k8s.gcr.io/kube-proxy | v1.15.5 | cbd7f21fec99 | 6 months ago | 82B |
| k8s.gcr.io/kube-apiserver | v1.15.5 | a534b1953a0d | 6 months ago | 207B |
| k8s.gcr.io/kube-scheduler | v1.15.5 | fab28de459dd | 6 months ago | 81B |
| docker/kube-compose-controller | v0.4.23 | a8c3d8a58e7 | 10 months ago | 35B |
| docker/kube-compose-api-server | v0.4.23 | f3591b2cb223 | 10 months ago | 49B |
| truevoly/oracle-12c | latest | 21789d4d876f | 14 months ago | 5.7B |
| k8s.gcr.io/coredns | 1.3.1 | eb516548c180 | 15 months ago | 40B |
| k8s.gcr.io/etcd | 3.3.10 | 2c4adeb21b4f | 16 months ago | 258B |
| k8s.gcr.io/kube-proxy-amd64 | v1.10.11 | 73870b3276ac | 16 months ago | 98B |
| k8s.gcr.io/kube-apiserver-amd64 | v1.10.11 | e851a7aeb6e8 | 16 months ago | 228B |
| k8s.gcr.io/kube-controller-manager-amd64 | v1.10.11 | 978cfa2028bf | 16 months ago | 151B |
| k8s.gcr.io/kube-scheduler-amd64 | v1.10.11 | d2c751d562c6 | 16 months ago | 51B |
| docker/kube-compose-controller | v0.4.12 | 02a45592fbee | 19 months ago | 27B |
| docker/kube-compose-api-server | v0.4.12 | 0f92c77f6676 | 19 months ago | 41B |
| k8s.gcr.io/etcd-amd64 | 3.1.12 | 52920ad46f5b | 2 years ago | 193B |
| k8s.gcr.io/k8s-dns-dnsmasq-nanny-amd64 | 1.14.8 | c2ca1f6b51ed | 2 years ago | 41B |
| k8s.gcr.io/k8s-dns-si-decar-amd64 | 1.14.8 | 677f7dc7fab5 | 2 years ago | 42B |
| k8s.gcr.io/k8s-dns-kube-dns-amd64 | 1.14.8 | 80cc5ea4b547 | 2 years ago | 50B |
| k8s.gcr.io/pause-amd64 | 3.1 | da86eb6abca1 | 2 years ago | 742B |
| k8s.gcr.io/pause | 3.1 | da86eb6abca1 | 2 years ago | 742B |

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A presentation slide with a dark blue header and footer. The main content area is white with a blue vertical line on the left. The title 'RUN ORACLE DOCKER IMAGE' is in large, bold, blue letters. The footer contains the text 'AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT' and the date '4/15/20'.

10



A presentation slide with a dark blue header and footer. The main content area is white. On the left, there is a screenshot of a terminal window showing the output of 'docker-compose up'. The title 'START AN ORACLE DATABASE USING DOCKER-COMPOSE' is in large, bold, blue letters. Below the title, there are two bullet points. The footer contains the text 'AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT' and the date '4/15/20'.

START AN ORACLE DATABASE USING DOCKER-COMPOSE

- If you omit the ORACLE_PWD environment variable it will just generate a presumably random password and output it during startup. The startup takes a few minutes to initialize.
- After it starts up you will have an oracle database that is accessible on your local machine on port 11521.

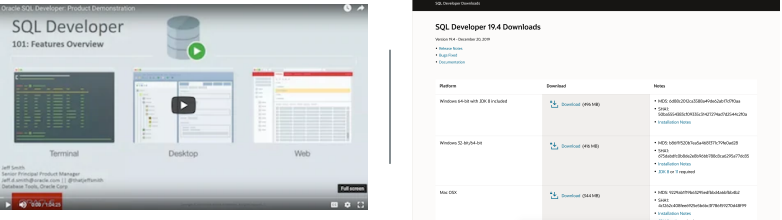
11



A presentation slide with a dark blue header and footer. The main content area is white. On the left, there is a screenshot of a terminal window showing the output of 'docker-compose up'. The title 'SQL DEVELOPER' is in large, bold, blue letters. The footer contains the text 'AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT' and the date '4/15/20'.

SQL DEVELOPER

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Oracle SQL Developer Product Demos: 101: Features Overview

SQL Developer 19.4 Downloads

Downloads for Windows 64-bit

| Platform | Download | Notes |
|-------------------------------------|-----------------------------------|---|
| Windows 64-bit with JDK 8 installed | Download (394 MB) | <ul style="list-style-type: none"> • Requires JDK 8 or later (JDK 8 is included in the installer) • Includes Oracle SQL Developer 19.4.0.040.0000.jar • Includes Oracle SQL Developer 19.4.0.040.0000.jar • Includes Oracle SQL Developer 19.4.0.040.0000.jar |
| Windows 32-bit with JDK 8 installed | Download (394 MB) | <ul style="list-style-type: none"> • Requires JDK 8 or later (JDK 8 is included in the installer) • Includes Oracle SQL Developer 19.4.0.040.0000.jar • Includes Oracle SQL Developer 19.4.0.040.0000.jar • Includes Oracle SQL Developer 19.4.0.040.0000.jar |
| Mac OS X | Download (394 MB) | <ul style="list-style-type: none"> • Requires JDK 8 or later (JDK 8 is included in the installer) • Includes Oracle SQL Developer 19.4.0.040.0000.jar • Includes Oracle SQL Developer 19.4.0.040.0000.jar • Includes Oracle SQL Developer 19.4.0.040.0000.jar |

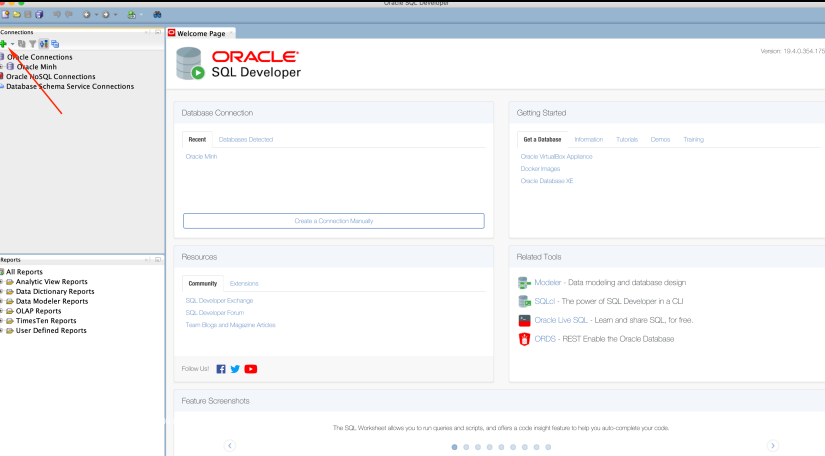
ORACLE SQL DEVELOPER 19.4 (2020)

DOWNLOAD: <https://www.oracle.com/tools/downloads/sqldev-downloads.html>

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Oracle SQL Developer 19.4.0.040.0000

Welcome Page

Database Connection

Recent Databases Detected

Oracle Minh

Create a Connection Manually

Getting Started

Get a Database

Oracle VirtualBox Appliance

Oracle Images

Oracle Database XE

Related Tools

Modeler - Data modeling and database design

SQLcl - The power of SQL Developer in a CLI

Oracle Live SQL - Learn and share SQL, for free

ORDS - REST Enable the Oracle Database

Follow Us!

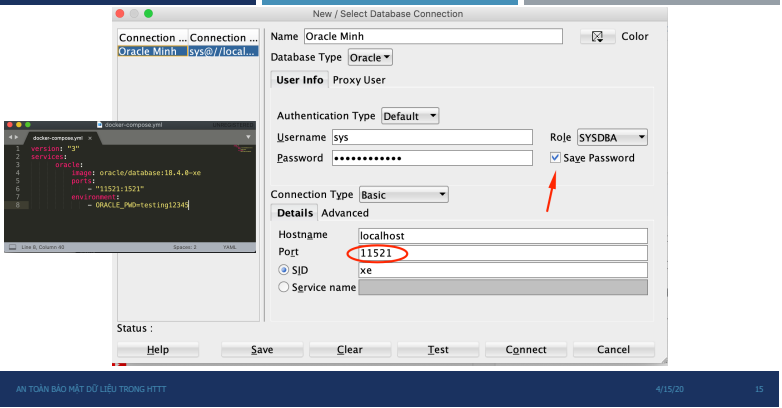
Feature Screenshots

The SQL Worksheet allows you to run queries and scripts, and offers a code insight feature to help you auto-complete your code.

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New / Select Database Connection

Connection Name: Oracle Minh

Database Type: Oracle

User Info: Proxy User

Authentication Type: Default

Username: sys

Role: SYSDBA

Password: *****

Save Password: ☒

Connection Type: Basic

Details: Advanced

Hostname: localhost

Port: 11521

SID: xe

Service name:

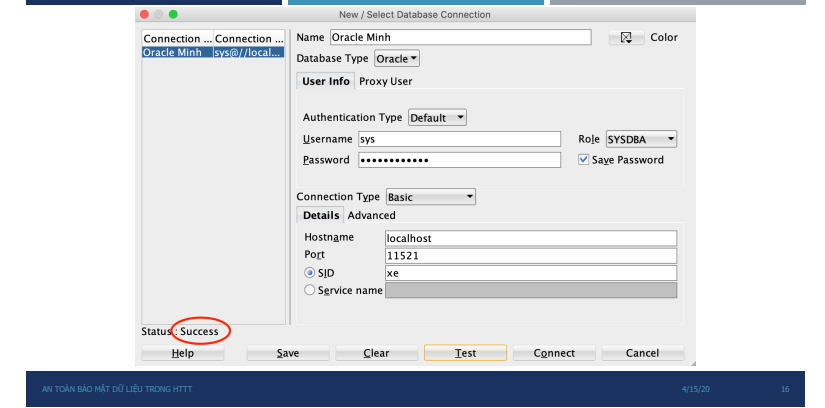
Status:

Help Save Clear Test Connect Cancel

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New / Select Database Connection

Connection Name: Oracle Minh

Database Type: Oracle

User Info: Proxy User

Authentication Type: Default

Username: sys

Role: SYSDBA

Password: *****

Save Password: ☒

Connection Type: Basic

Details: Advanced

Hostname: localhost

Port: 11521

SID: xe

Service name:

Status: Success

Help Save Clear Test Connect Cancel

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Q&A



lvminh@fit.hcmus.edu.vn

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