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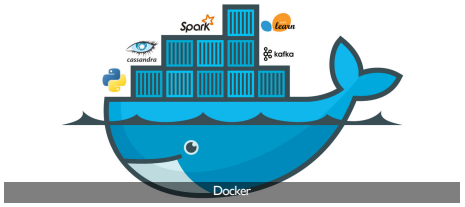
ORACLE - DOCKER

Source: https://www.petefreitag.com/item/886.cfm

1



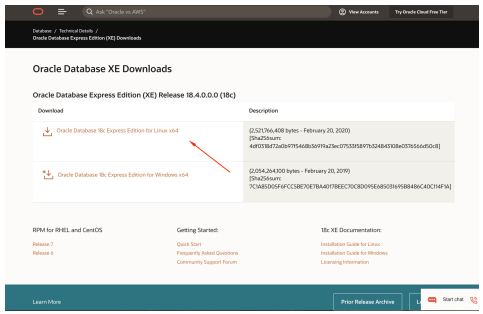
ORACLE DATABASE

PREPARE

2

ORACLE XE 18C

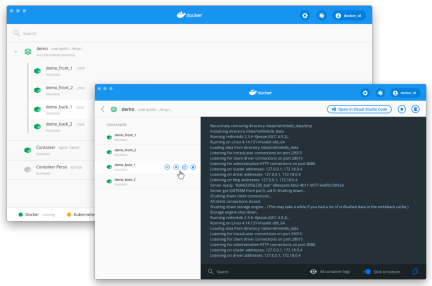
- Link: https://www.oracle.com/database/technologies/xe-downloads.html
- Only download file



3

DOCKER DESKTOP

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



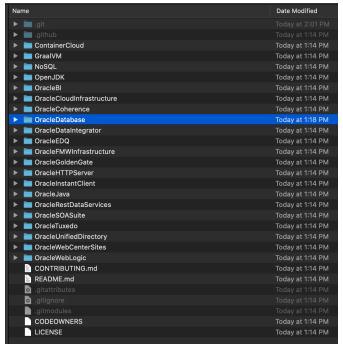
4

BUILD DOCKER IMAGE

5

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



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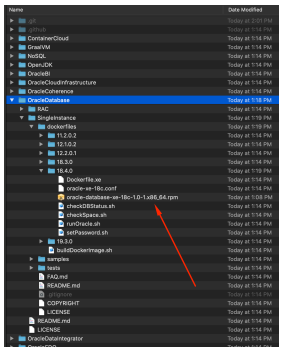
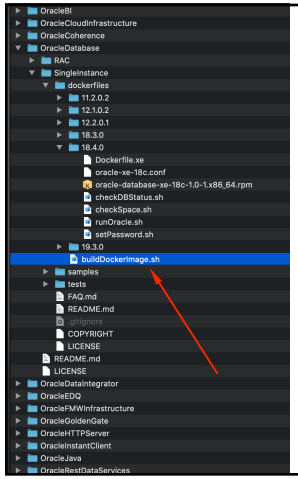
ORACLE DOCKER FILE

- Copy Oracle binary file to Dockerfile dir.



7



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.

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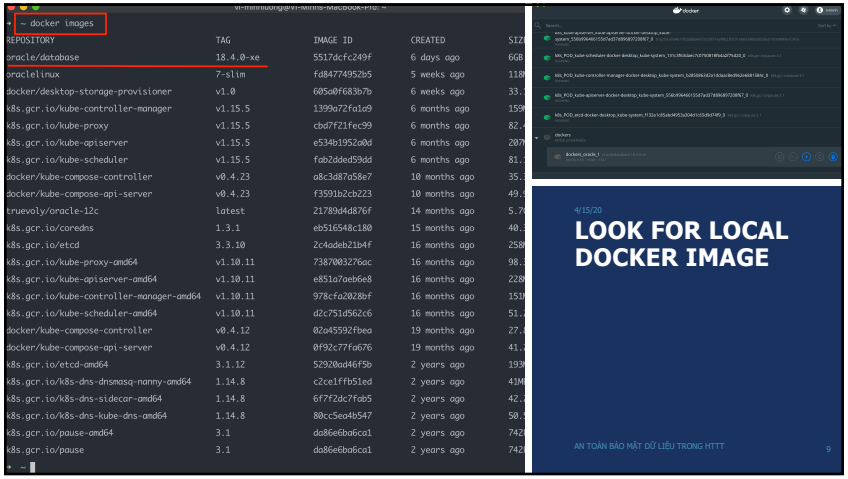
~ docker images
REPOSITORY TAG IMAGE ID CREATED
oracle/database 18.4.0-xe 5517dcfc249f 6 days ago
oraclelinux 7-slim fd8477495 2b5 5 weeks ago
docker/desktop-storage-provisioner v1.0 605a0f683b7b 6 weeks ago
k8s.gcr.io/kube-controller-manager v1.15.5 1399a72fa1a9 6 months ago
k8s.gcr.io/kube-proxy v1.15.5 cbd7f21fec99 6 months ago
k8s.gcr.io/kube-apiserver v1.15.5 e534b1952a0d 6 months ago
k8s.gcr.io/kube-scheduler v1.15.5 fab2dded59dd 6 months ago
docker/kube-compose-controller v0.4.23 a8c3d87a58e7 10 months ago
docker/kube-compose-api-server v0.4.23 f3591b2cb223 10 months ago
truevoly/oracle-12c latest 21789d4d876f 14 months ago
k8s.gcr.io/coredns 1.3.1 eb516548c180 15 months ago
k8s.gcr.io/etcd 3.3.10 2c4adeb21b4f 16 months ago
k8s.gcr.io/kube-proxy-amd64 v1.10.11 738700376ac 16 months ago
k8s.gcr.io/kube-apiserver-amd64 v1.10.11 e851a7aeb6e8 16 months ago
k8s.gcr.io/kube-controller-manager-amd64 v1.10.11 978cfa2028bf 16 months ago
k8s.gcr.io/kube-scheduler-amd64 v1.10.11 d2c751d562c6 16 months ago
docker/kube-compose-controller v0.4.12 02a45592fbea 19 months ago
docker/kube-compose-api-server v0.4.12 0f92c77fa676 19 months ago
k8s.gcr.io/etcd-amd64 3.1.12 52920ad46f5b 2 years ago
k8s.gcr.io/k8s-dns-dnsmasq-nanny-amd64 1.14.8 c2ce1ffb51ed 2 years ago
k8s.gcr.io/k8s-dns-sidecar-amd64 1.14.8 6f7f2dc7fab5 2 years ago
k8s.gcr.io/k8s-dns-kube-dns-amd64 1.14.8 80cc5ea4b547 2 years ago
k8s.gcr.io/pause-amd64 3.1 da86e6ba6ca1 2 years ago
k8s.gcr.io/pause 3.1 da86e6ba6ca1 2 years ago
4/15/20
LOOK FOR LOCAL DOCKER IMAGE
AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT 9

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RUN
ORACLE DOCKER IMAGE
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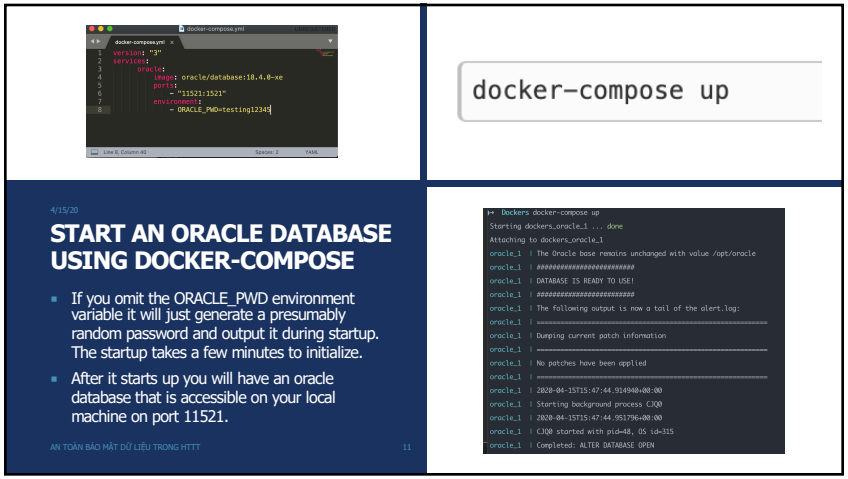
docker-compose.yml
version: "3"
services:
oracle:
image: oracle/database:18.4.0-xe
ports:
- "11521:1521"
environment:
- ORACLE_PWD=testing12345
docker-compose up
4/15/20
START AN ORACLE DATABASE USING DOCKER-COMPOSE
If you omit the ORACLE_PWD environment variable it will just generate a presumably random 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.
AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT 11
Dockers docker-compose up
Starting dockers_oracle_1 ... done
Attaching to dockers_oracle_1
oracle_1 | The Oracle base remains unchanged with value /opt/oracle
oracle_1 | #########################
oracle_1 | DATABASE IS READY TO USE!
oracle_1 | #########################
oracle_1 | The following output is now a tail of the alert.log:
oracle_1 | Dumping current patch information
oracle_1 | No patches have been applied
oracle_1 | 2020-04-15T15:47:44.914940+00:00
oracle_1 | Starting background process CJQ0
oracle_1 | 2020-04-15T15:47:44.951796+00:00
oracle_1 | CJQ0 started with pid=48, OS id=315
oracle_1 | Completed: ALTER DATABASE OPEN

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FROM ORACLE
SQL DEVELOPER
AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT 4/15/20 12

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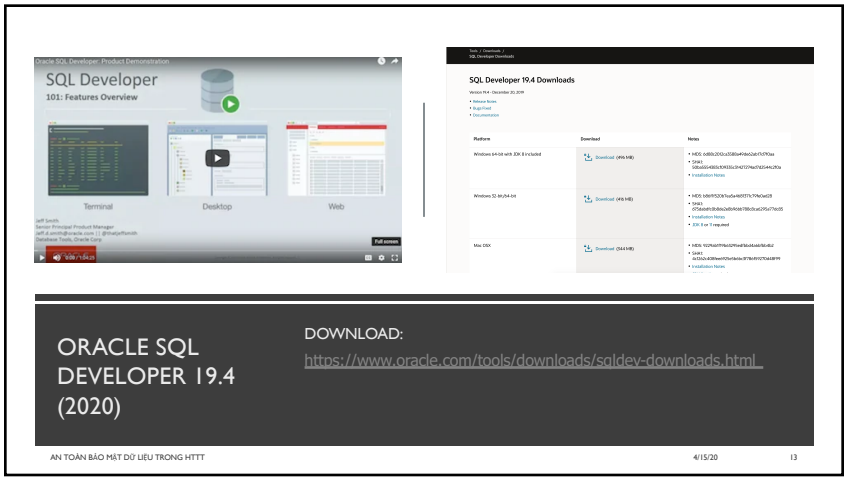
SQL Developer
101: Features Overview
Terminal
Desktop
Web
SQL Developer 19.4 Downloads
ORACLE SQL DEVELOPER 19.4 (2020)
DOWNLOAD:
https://www.oracle.com/tools/downloads/sqldev-downloads.html
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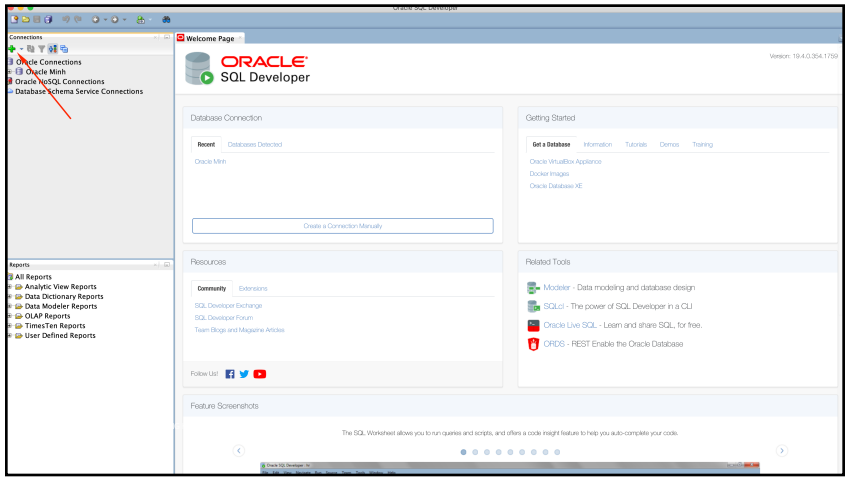
ORACLE
SQL Developer
Welcome Page
Oracle Connections
Oracle Minh
Oracle NoSQL Connections
Database Schema Service Connections
Database Connection
Getting Started
Resources
Related Tools
Feature Screenshots

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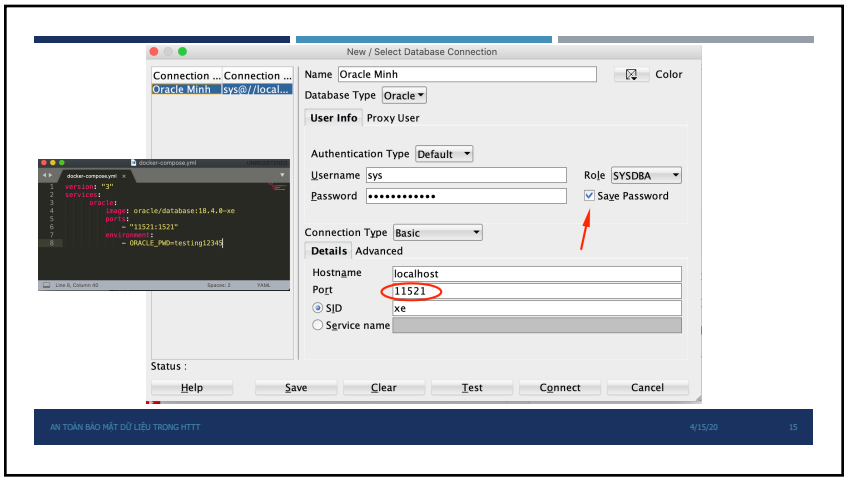
New / Select Database Connection
Connection ...
Oracle Minh
Name Oracle Minh
Color
Database Type Oracle
User Info
Proxy User
Authentication Type Default
Username sys
Role SYSDBA
Password
Save Password
Connection Type Basic
Details
Advanced
Hostname localhost
Port 11521
SID xe
Service name
Status :
Help
Save
Clear
Test
Connect
Cancel
AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT
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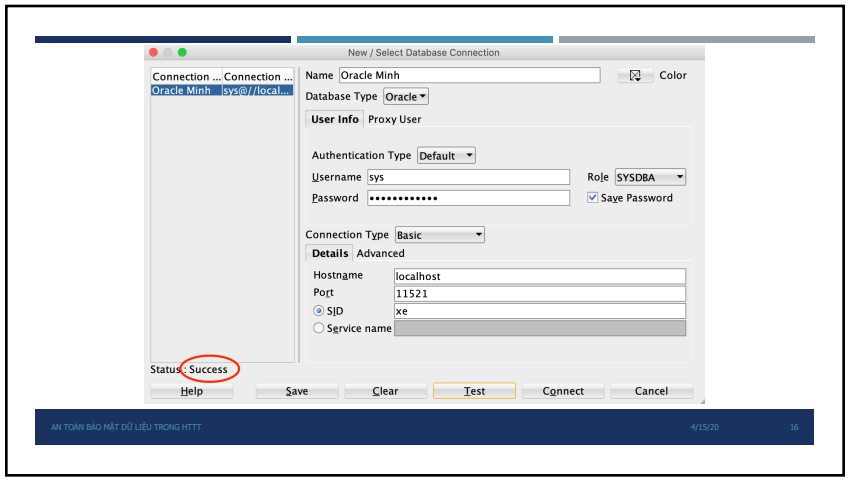
New / Select Database Connection
Connection ...
Oracle Minh
Name Oracle Minh
Color
Database Type Oracle
User Info
Proxy User
Authentication Type Default
Username sys
Role SYSDBA
Password
Save Password
Connection Type Basic
Details
Advanced
Hostname localhost
Port 11521
SID xe
Service name
Status : Success
Help
Save
Clear
Test
Connect
Cancel
AN TOÀN BẢO MẬT DỮ LIỆU TRONG HTTT
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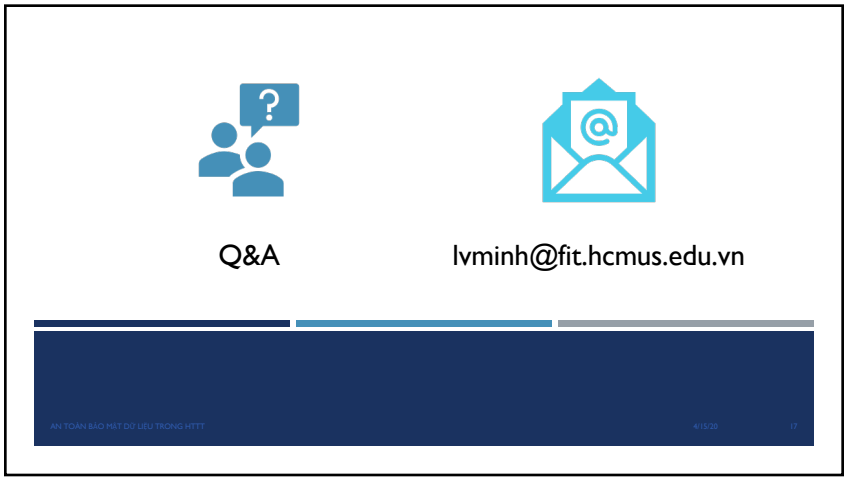
Q&A
lvminh@fit.hcmus.edu.vn
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