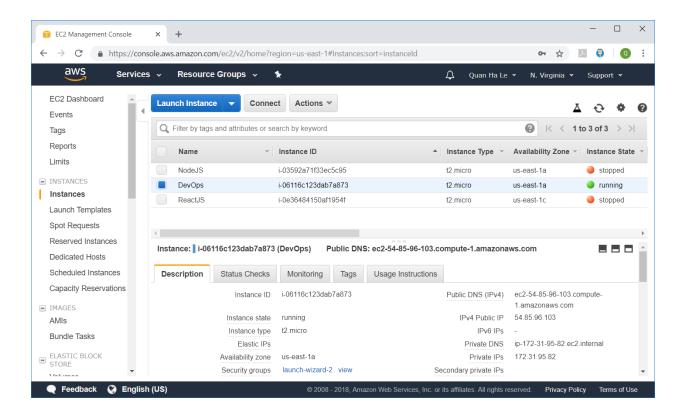
Candidate Quan Ha Le

I deployed this work on Amazon Webservices.

The AMI that I used to deploy my CentOS ec2 instance is

CentOS-7-x86_64-EBS-HVM-20180318_121109-877e76fd-a132-410c-9982-c70ca8e41d88-ami-f5cb0388.4 (ami-7d579d00)



From the above AMI, I installed Docker, MariaDB and Symfony4

You can use the MS Word and PDF files inside this package to see all the screenshots

A) Install docker

[root@ip-172-31-95-82 centos]# cd /etc/yum.repos.d/

[root@ip-172-31-95-82 yum.repos.d]# ls -lai

```
total 52
```

102 drwxr-xr-x. 2 root root 229 Oct 7 01:33.

4194368 drwxr-xr-x. 74 root root 8192 Oct 13 22:54 ...

34412 -rw-r--r-. 1 root root 1664 Aug 13 14:34 CentOS-Base.repo

104 -rw-r--r-. 1 root root 1309 Aug 13 14:34 CentOS-CR.repo

105 -rw-r--r-. 1 root root 649 Aug 13 14:34 CentOS-Debuginfo.repo

109 -rw-r--r--. 1 root root 314 Aug 13 14:34 CentOS-fasttrack.repo

106 -rw-r--r-. 1 root root 630 Aug 13 14:34 CentOS-Media.repo

107 -rw-r--r-. 1 root root 1331 Aug 13 14:34 CentOS-Sources.repo

108 -rw-r--r-. 1 root root 4768 Aug 13 14:34 CentOS-Vault.repo

243374 -rw-r--r-. 1 root root 951 Oct 2 2017 epel.repo

146211 -rw-r--r-. 1 root root 1050 Oct 2 2017 epel-testing.repo

[root@ip-172-31-95-82 yum.repos.d]# vi epel.repo

[root@ip-172-31-95-82 yum.repos.d]# yum clean all

sudo yum install -y yum-utils device-mapper-persistent-data lvm2

sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo

sudo yum-config-manager --enable docker-ce-edge

sudo yum-config-manager -- enable docker-ce-test

sudo yum install docker-ce

sudo yum update

enabled=1

[root@ip-172-31-95-82 yum.repos.d]# yum list docker-ce --showduplicates | sort -r | grep stable

docker-ce.x86_64 18.06.1.ce-3.el7 docker-ce-stable

docker-ce.x86 64 18.06.0.ce-3.el7 docker-ce-stable

docker-ce.x86_64 18.03.1.ce-1.el7.centos docker-ce-stable

docker-ce.x86_64	18.03.0.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.12.1.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.12.0.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.09.1.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.09.0.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.06.2.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.06.1.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.06.0.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.03.3.ce-1.el7	docker-ce-stable
docker-ce.x86_64	17.03.2.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.03.1.ce-1.el7.centos	docker-ce-stable
docker-ce.x86_64	17.03.0.ce-1.el7.centos	docker-ce-stable

sudo yum install docker-ce-18.03.1.ce

Install docker-compose

sudo curl -L "https://github.com/docker/compose/releases/download/1.22.0/docker-compose-\$(uname -s)-\$(uname -m)" -o /usr/local/bin/docker-compose

sudo chmod +x /usr/local/bin/docker-compose

docker-compose --version

B) Install Symfony4

B1) Install PHP7

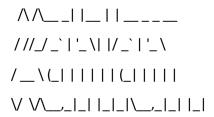
yum install https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm

yum install yum-utils

yum-config-manager --enable remi-php72

php -v
B2) Install composer
sudo yum -y update
cd /tmp
sudo curl -sS https://getcomposer.org/installer php
mv composer.phar /usr/local/bin/composer
B3) Create a Symfony project
yum install php-xml
yum install php-mbstring
yum install php-process
cd /root/
composer create-project symfony/website-skeleton mariadbapi
cd mariadbapi/
vi .env
DATABASE_URL=mysql://root:admin2018@127.0.0.1:3306/eStore
C) Install Kahlan
composer requiredev kahlan/kahlan
[root@ip-172-31-95-82 symfonyapi]# ./vendor/bin/kahlanspec=tests

yum install php php-mcrypt php-cli php-gd php-curl php-mysql php-ldap php-zip php-fileinfo



The PHP Test Framework for Freedom, Truth and Justice.

src directory :/root/symfonyapi/src

spec directory: /root/symfonyapi/tests

1 / 1 (100%)

Expectations: 0 Executed

Specifications: 0 Pending, 0 Excluded, 0 Skipped

Passed 0 of 0 PASS in 0.005 seconds (using 2MB)

D) Install MariaDB

yum update

yum install mariadb-server

sudo systemctl enable mariadb

systemctl start mariadb

[root@ip-172-31-95-82 docker]# systemctl status mariadb

mariadb.service - MariaDB database server

Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; vendor preset: disabled)

Active: active (running) since Sat 2018-10-27 19:58:46 UTC; 53min ago

Process: 773 ExecStartPost=/usr/libexec/mariadb-wait-ready \$MAINPID (code=exited, status=0/SUCCESS)

Process: 725 ExecStartPre=/usr/libexec/mariadb-prepare-db-dir %n (code=exited, status=0/SUCCESS)

Main PID: 772 (mysqld_safe)

CGroup: /system.slice/mariadb.service

-772 /bin/sh /usr/bin/mysqld_safe --basedir=/usr

└─953 /usr/libexec/mysqld --basedir=/usr --datadir=/var/lib/mysql --plugin-dir=/usr/lib64/mysql/plugin --log-error=/var/log/mariadb/mariadb.log --pid-file=/var/run/mariadb/mar...

Oct 27 19:58:43 ip-172-31-95-82.ec2.internal systemd[1]: Starting MariaDB database server...

Oct 27 19:58:43 ip-172-31-95-82.ec2.internal mariadb-prepare-db-dir[725]: Database MariaDB is probably initialized in /var/lib/mysql already, nothing is done.

Oct 27 19:58:44 ip-172-31-95-82.ec2.internal mysqld_safe[772]: 181027 19:58:44 mysqld_safe Logging to '/var/log/mariadb/mariadb.log'.

Oct 27 19:58:44 ip-172-31-95-82.ec2.internal mysqld_safe[772]: 181027 19:58:44 mysqld_safe Starting mysqld daemon with databases from /var/lib/mysql

Oct 27 19:58:46 ip-172-31-95-82.ec2.internal systemd[1]: Started MariaDB database server.

sudo mysql_secure_installation

(Please set up the mariadb user = root and the root password = admin2018)