**Install Docker on Centos**

* sudo yum install -y yum-utils
* sudo yum-config-manager \

--add-repo \

https://download.docker.com/linux/centos/docker-ce.repo

* sudo yum install docker-ce docker-ce-cli containerd.iom
* service docker status
* service docker start
* service docker status

**Install Docker on Ubuntu**

* <https://docs.docker.com/engine/install/ubuntu/#installation-methods>

**Install Docker Compose**

* sudo curl -L "https://github.com/docker/compose/releases/download/1.27.3/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
* sudo chmod +x /usr/local/bin/docker-compose
* sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
* docker-compose --version

**Prerecusite before docker image build**

* In public\_html folder paste all fsa code in this directory
* In mysql-dump folder place fsa database sql file

**Create image and build the code**

* docker-compose up --build
* After build image in new tab you can check images and container using following command

# docker images

**REPOSITORY TAG IMAGE ID CREATED SIZE**

php-apache-mysql\_php latest 4a0a1e198f32 3 hours ago 483MB

ubuntu 20.04 bb0eaf4eee00 6 days ago 72.9MB

mysql 5.7 ef08065b0a30 13 days ago 448MB

phpmyadmin/phpmyadmin 4.7 f51fd61ee511 2 years ago 166MB

# docker ps -a

**CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES**

549158c542de phpmyadmin/phpmyadmin:4.7 "/run.sh phpmyadmin" 3 hours ago Up 3 hours 9000/tcp, 0.0.0.0:33306->80/tcp fsa-phpmyadmin

962d1a76892d php-apache-mysql\_php "/usr/bin/supervisor…" 3 hours ago Up 3 hours 0.0.0.0:30080->80/tcp, 0.0.0.0:30443->443/tcp, 0.0.0.0:38080->8080/tcp fsa-apache-nginx-varnish-php

db895d11b03b mysql:5.7 "docker-entrypoint.s…" 3 hours ago Up 3 hours 3306/tcp, 33060/tcp fsa-mysql

* Enter php-apache-mysql\_php docker container using following command

docker exec -it 962d1a76892d bash

* nano /etc/apache2/apache2.conf

End of file paste following lines and save the file

<Directory /var/www/html>

RewriteEngine On

RewriteBase /

RewriteCond %{REQUEST\_FILENAME} !-f

RewriteCond %{REQUEST\_FILENAME} !-d

RewriteRule ^(.\*)$ index.php?q=$1 [L,QSA]

</Directory>

* service apache2 restart
* Create host entry to your local machine

172.18.0.1 docker.fsa.com

* To access phpmyadmin using following URL:

[http://localhost:33306](http://localhost:33306/)

User: fsauser

Pass: fsapass

* To access fsa site using following URL:

[http://docker.fsa.com:38080](http://docker.fsa.com:38080/)

**Note:** Manually restore mysql database using following command

docker exec -i fsa-mysql /usr/bin/mysql -ufsauser --password=fsapass fsa\_db < db\_fsa\_qa.sql

* Update view structure using phpmyadmin and views query available in following file:

<https://docs.google.com/document/d/1iWYdpDcAHPSnEEvGKRnohOfPlQ84Q9rUXy0sO5XnFYs/view>