Steps which I followed to set a persistent data store for REST server.

1. Started an instance of MongoDB:

root@ubuntu:~# docker run -d --name mongo --network composer\_default -p 27017:27017 mongo

dda3340e4daf7b36a244c5f30772f50a4ee1e8f81cc7fc5035f1090cdcf46c58

1. Created a new, empty directory. Created a new file named Dockerfile the new directory, with the following contents:

FROM hyperledger/composer-rest-server

RUN npm install --production loopback-connector-mongodb passport-github && \ npm cache clean && \ ln -s node\_modules .node\_modules

1. Changed into the directory created in step 2, and build the Docker image:

root@ubuntu:~# cd examples/dir/

root@ubuntu:~/examples/dir# ls

Dockerfile ennvars.txt

root@ubuntu:~/examples/dir# docker build -t myorg/my-composer-rest-server .

Sending build context to Docker daemon 4.096 kB

Step 1/2 : FROM hyperledger/composer-rest-server

---> 77cd6a591726

Step 2/2 : RUN npm install --production loopback-connector-couch passport-github && npm cache clean && ln -s node\_modules .node\_modules

---> Using cache

---> 2ff9537656d1

Successfully built 2ff9537656d1

root@ubuntu:~/examples/dir#

1. Created file named ennvars.txt in the same directory.

The contents are as follows:

COMPOSER\_CONNECTION\_PROFILE=hlfv1

COMPOSER\_BUSINESS\_NETWORK=blockchainv5

COMPOSER\_ENROLLMENT\_ID=admin

COMPOSER\_ENROLLMENT\_SECRET=adminpw

COMPOSER\_NAMESPACES=never

COMPOSER\_SECURITY=true

COMPOSER\_CONFIG='{

"type": "hlfv1",

"orderers": [

{

"url": "grpc://localhost:7050"

}

],

"ca": {

"url": "http://localhost:7054",

"name": "ca.example.com"

},

"peers": [

{

"requestURL": "grpc://localhost:7051",

"eventURL": "grpc://localhost:7053"

}

],

"keyValStore": "/home/ubuntu/.hfc-key-store",

"channel": "mychannel",

"mspID": "Org1MSP",

"timeout": "300"

}'

COMPOSER\_DATASOURCES='{

"db": {

"name": "db",

"connector": "mongodb",

"host": "mongo"

}

}'

COMPOSER\_PROVIDERS='{

"github": {

"provider": "github",

"module": "passport-github",

"clientID": "a88810855b2bf5d62f97",

"clientSecret": "f63e3c3c65229dc51f1c8964b05e9717bf246279",

"authPath": "/auth/github",

"callbackURL": "/auth/github/callback",

"successRedirect": "/",

"failureRedirect": "/"

}

}'

1. Loaded the env variables by the following command.

root@ubuntu:~/examples/dir# source ennvars.txt

1. Started the docker container by the below command

root@ubuntu:~/examples/dir# docker run \

> -d \

> -e COMPOSER\_CONNECTION\_PROFILE=${COMPOSER\_CONNECTION\_PROFILE} \

> -e COMPOSER\_BUSINESS\_NETWORK=${COMPOSER\_BUSINESS\_NETWORK} \

> -e COMPOSER\_ENROLLMENT\_ID=${COMPOSER\_ENROLLMENT\_ID} \

> -e COMPOSER\_ENROLLMENT\_SECRET=${COMPOSER\_ENROLLMENT\_SECRET} \

> -e COMPOSER\_NAMESPACES=${COMPOSER\_NAMESPACES} \

> -e COMPOSER\_SECURITY=${COMPOSER\_SECURITY} \

> -e COMPOSER\_CONFIG="${COMPOSER\_CONFIG}" \

> -e COMPOSER\_DATASOURCES="${COMPOSER\_DATASOURCES}" \

> -e COMPOSER\_PROVIDERS="${COMPOSER\_PROVIDERS}" \

> --name rest \

> --network composer\_default \

> -p 3000:3000 \

> myorg/my-composer-rest-server

942eb1bfdbaf5807b1fe2baa2608ab35691e9b6912fb0d3b5362531b8adbdd3a

It got executed successfully. So now I should be able to access the persistent and secured REST server using the following URL: <http://localhost:3000/explorer/>.

But when tried to open the above url got the below error.

