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.

