Set up Hyperledger Fabric

Steps to be followed:

1. Cloning the Hyperledger Fabric repository and installing it

Step 1: Cloning the Hyperledger Fabric repository and installing it

1.1 Open the terminal and execute the following command to clone the Hyperledger repository into our machine and install it:

sudo curl -sSL https://bit.ly/2ysbOFE | bash -s -- 2.2.2 1.4.9

```
                 @ip-172-31-72-124:~/fabric-samples/test-network$ curl -sSL https:
//bit.ly/2ysbOFE | bash -s -- 2.2.2 1.4.9

Clone hyperledger/fabric-samples repo

===> Changing directory to fabric-samples
===> Checking out v2.2.2 of hyperledger/fabric-samples

Pull Hyperledger Fabric binaries

===> Downloading version 2.2.2 platform specific fabric binaries
===> Downloading:  https://github.com/hyperledger/fabric/releases/download/v2.2.
2/hyperledger-fabric-linux-amd64-2.2.2.tar.gz
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   649  100   649    0     0   4615      0 --:--:-- --:--:-- --:--:--  4602
100 72.8M  100 72.8M    0     0  47.0M      0  0:00:01  0:00:01 --:--:-- 61.9M
==> Done.
===> Downloading version 1.4.9 platform specific fabric-ca-client binary
===> Downloading:  https://github.com/hyperledger/fabric-ca/releases/download/v1
.4.9/hyperledger-fabric-ca-linux-amd64-1.4.9.tar.gz
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   652  100   652    0     0   5076      0 --:--:-- --:--:-- --:--:--  5093
```

1.2 Generally the Docker daemon has an issue with the file permissions provided and results in an error as shown below:

```
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docke
r daemon running?
```

```
Got permission denied while trying to connect to the Docker daemon socket at uni
x:///var/run/docker.sock: Post http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/hy
perledger/fabric-ca:1.5.0/tag?repo=hyperledger%2Ffabric-ca&tag=latest: dial unix
 /var/run/docker.sock: connect: permission denied
Got permission denied while trying to connect to the Docker daemon socket at uni
x:///var/run/docker.sock: Post http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/hy
perledger/fabric-ca:1.5.0/tag?repo=hyperledger%2Ffabric-ca&tag=1.5: dial unix /v
ar/run/docker.sock: connect: permission denied
===> List out hyperledger docker images
Got permission denied while trying to connect to the Docker daemon socket at uni
x:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/jso
n: dial unix /var/run/docker.sock: connect: permission denied
```

1.3 We can execute the command below to provide adequate permissions to the file:

sudo chmod 666 /var/run/docker.sock

```
         @ip-172-31-72-124:~$ sudo chmod 666 /var/run/docker.sock
```

1.4 After providing the permissions, re-run the command from **step 1.1** to install
Hyperledger Fabric in our machine

```
FABRIC_IMAGES: peer orderer ccenv tools baseos
===> Pulling fabric Images
====> hyperledger/fabric-peer:2.3.2
2.3.2: Pulling from hyperledger/fabric-peer
339de151aab4: Pull complete
b4bf7ae190fe: Pull complete
10fe799bdafa: Pull complete
15f2887b5ef0: Pull complete
a13b95531ea2: Pull complete
e7da33d025ba: Pull complete
Digest: sha256:f39281832923fc98695e3aebd998619e4ad3eec5acb861d2636a9be296b519d8
Status: Downloaded newer image for hyperledger/fabric-peer:2.3.2
docker.io/hyperledger/fabric-peer:2.3.2
====> hyperledger/fabric-orderer:2.3.2
2.3.2: Pulling from hyperledger/fabric-orderer
339de151aab4: Already exists
b4bf7ae190fe: Already exists
ed8a60a97f32: Pull complete
449433bcd453: Pull complete
3043f4effeca: Pull complete
9ea245af5804: Pull complete
36869231524e: Pull complete
Digest: sha256:50f2c36e5d11a5ae9b266cf062299e538a0f5e95289b736f3c16108697a7bb13
```

1.5 Once the installation is complete we must see the **fabric-samples** folder in our **File
Manager.** This confirms the installation of Hyperledger fabric in our local machine