

Building Network in Hyperledger Fabric

Getting Started with building a network requires us to follow few steps of Hyperledger Fabric.

Step 1 : Download and Install [Hyperledger Fabric Samples](#).

Step 2: Open the ‘First-Network’ sub-directory.

The sub-directory contains the Hyperledger Fabric sample which we can access by using the command, and will list out the Docker Images

```
- cd fabric-samples/first-network.
```

Note: You need to download Platform-specific Binaries and clone it to the cloned repo. Also set the path where you want to extract it, and if you get an error then you may have an older version.

* You have to add the user to the user group by following command:

```
- sudo usermod -a -G docker $USER
```

Step 3 : Generate Network Artifacts and Start the Network.

To get started you can use the following command, and it will provide you with a yes/no command line and you need to provide the input (y) to get started. The command will provide you with different certificates and keys for our various network entities.

```
- ./byfn.sh -m generate
```

This will create the following artifacts:

1. It will create a sample network called “net_byfn.”.

2. It will create 2 Organisations
3. The command will also add 2 peers each in every organisation, with one of them as an anchor peer.
4. An Orderer for the Blockchain will also get created.
5. A Channel for the Blockchain in Hyperledger Fabric will be created, named as "mychannel".

Step 4: How to bring down Hyperledger Fabric Network.

To stop the Blockchain network from running we can use this command.

```
- ./byfn.sh -m down
```