Steps for setting IBM Hyperledger Fabric v1.0 on Ubuntu16.04 LTS Version

1. Installing GO Language in the system.
   1. Download the zip file by going to the link <https://storage.googleapis.com/golang/go1.8.3.linux-amd64.tar.gz>
   2. Extract the downloaded archive into /usr/local, creating a Go tree in /usr/local/go.

sudo tar xf /home/optum/Downloads/go1.8.3.linux-amd64.tar.gz -C /usr/local

* 1. Add /usr/local/go/bin to the PATH environment variable. For this, we need to edit the ~/.bashrc file of the system, which keeps track of the environment variables of your system. To edit that file, use the following command.

gedit ~/.bashrc

Include the following lines at the end of the file

#GO VARIABLES

export GOROOT=/usr/local/go

export PATH=$PATH:$GOROOT/bin

#END GO VARIABLES

The PATH variable is the environment Path variable. The GOROOT variable defines where your Go files are situated in the system. To reload the environment variables, we use the following command.

source ~/.bashrc

1. Installing Docker Community Edition in the system.
   1. Download the .deb file by goint to the link below.

<https://download.docker.com/linux/ubuntu/dists/xenial/pool/stable/amd64/docker-ce_17.03.1~ce-0~ubuntu-xenial_amd64.deb>

* 1. Install Docker, changing the path below to the path where you downloaded the Docker package.

$ sudo dpkg -i /path/to/package.deb

1. Installing Docker Compose in the system.
   1. Install curl by executing the below command if not already present in the system by executing the following command in the terminal.

$ sudo apt-get install curl

* 1. Now copy the below command and paste the same in the terminal.

# curl -L <https://github.com/docker/compose/releases/download/1.14.0-> rc1/docker-compose-`uname -s`-`uname -m` > /usr/local/bin/docker-compose

* 1. Apply executables permissions to binary.

$ sudo chmod +x /usr/local/bin/docker-compose

1. Installing git in the system
   1. Execute the below commands

$ sudo apt-get update

$ sudo apt-get install git

1. Cloning the Hyperledger Fabric Project
   1. Make directory for the project by copying below command.

$ sudo mkdir -p /opt/gopath/src/github.com/hyperledger

* 1. Now change the working directory to the above directory

$ cd /opt/gopath/src/github.com/hyperledger/

* 1. Clone fabric into the above directory

$ sudo git clone <https://github.com/hyperledger/fabric.git>

* 1. Set the GOPATH in environment variable by editing the .bashrc file.Include the following lines at the end of the file.

export GOPATH=/opt/gopath

exportPATH=$PATH:GOPATH/src/github.com/hyperledger/fabric/build/bin

* 1. To reload the environment variables, we use the following command. source ~/.bashrc
  2. After this execute the below command to install some required libraries.

$ sudo apt install libtool libltdl-dev

1. Next step is to make peer. For this change your working directory to the directory where you have cloned hyperledger fabric and use command “make peer”

$ cd /opt/gopath/src/github.com/hyperledger/fabric

$ sudo make peer