**HYPERLEDGER FABRIC PREREQUISITES**

To install Hyperledger Fabric in Ubuntu VM from scratch, We need to install some prerequisites:-

These prerequisites’ versions are according to the fabric v1.4 [documentation](https://hyperledger-fabric.readthedocs.io/en/release-1.4/prereqs.html?ref=hackernoon.com).

1. cURL - latest version
2. Docker - version 17.06.2-ce or greater
3. Docker Compose - version 1.14.0 or greater
4. Golang - version 1.15.x
5. Nodejs - version 8.x (other versions are not in support yet)
6. NPM
7. Python 2.x

sudo apt install net-tools

sudo apt-get install build-essential

**Step 1 : cURL**

Check if your Linux has curl install or not. curl --version

If not follow the below instructions to install:

sudo apt-get update

sudo apt-get install curl

**Step 2: Docker and Docker Compose**

1. sudo apt update
2. sudo apt install apt-transport-https ca-certificates curl software-properties-common
3. curl -fsSL [https://download.docker.com/linux/ubuntu/gpg](https://download.docker.com/linux/ubuntu/gpg?ref=hackernoon.com) | sudo apt-key add -
4. sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic stable"

1. Update the package database

sudo apt-get update

1. Install Docker

sudo apt-get install -y docker-ce

1. To use docker commands it requires root privileges. Instead of using sudo for all the docker commands, add the user to docker group

sudo usermod -aG docker ${USER}

su - ${USER}

**Install docker compose:**

1)Run this command to download the current stable release of Docker Compose:

sudo curl -L "https://github.com/docker/compose/releases/download/1.28.6/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose

2)Apply executable permissions to the binary:

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

sudo chmod 666 /var/run/docker.sock

**Test the Installation**

1. Check the docker and docker-compose version

docker --version

docker-compose --version

1. Pull the [hello-world image](https://hub.docker.com/r/library/hello-world/?ref=hackernoon.com) from Docker Hub and run a container:

docker run hello-world

**Step 3: Golang**

1. Install the golang package

curl -O https://storage.googleapis.com/golang/go1.15.linux-amd64.tar.gz

1. Extract the package

tar xvf go1.15.linux-amd64.tar.gz

1. Set the GOPATH

export GOPATH=$HOME/go

export PATH=$PATH:$GOPATH/bin

1. Check the go version

go version

**Step 4: Nodejs and npm**

curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.33.2/install.sh | bash

export NVM\_DIR="$HOME/.nvm"

[ -s "$NVM\_DIR/nvm.sh" ] && . "$NVM\_DIR/nvm.sh"

nvm install 8.16

nvm use 8.16

With nodejs, npm also get installed. Check their version

node -v

Output:-

v8.16.0

npm -v

v6.4.1

**Step 5: Python 2.7**

By default ubuntu 16.04 comes with Python 3.5.1 installed as python3 binary.

1. To install python 2.7

sudo apt-get install python

1. Check the python version:

python --version

Python 2.7.12

All the prerequisites are installed. Now, let's install the Hyperledger Fabric v1.4.

**Fabric Docker Image** :

curl **-**sSL http:**//**bit**.**ly**/**2ysbOFE **|** bash **-**s **--** 1.4**.**8