

Installation Guide for Hyperledger Composer

Before we start building our applications, we need to set up the development environment of Hyperledger Composer. Follow these steps to setup the development environment:

Step 1: Install Prerequisites:

The Hyperledger Composer pre-requisites can be installed on Ubuntu or MacOS. The following are prerequisites for installing the required development tools:

- **Operating Systems:** *Ubuntu Linux 14.04 / 16.04 LTS (both 64-bit), or Mac OS 10.12*
- **Docker Engine:** *Version 17.03 or higher*
- **Docker-Compose:** *Version 1.8 or higher*
- **Node:** *8.9 or higher (note version 9 is not supported)*
- **npm:** *v5.x*
- **git:** *2.9.x or higher*
- **Python:** *2.7.x*
- *A code editor of your choice, we recommend VSCode.*

Note: If installing Hyperledger Composer using Linux, be aware of the following advice:

- Login as a normal user, rather than root. Don't use "su".
- When installing prerequisites, use curl, then unzip using sudo.
- Run prereqs-ubuntu.sh as a normal user. It may prompt for root password as some of its actions are required to be run as root.
- Do not use npm with sudo or su to root to use it.
- Avoid installing node globally as root.

Step 1.1: You can also download the prerequisites directly using the following command:

```
- curl -O  
  https://hyperledger.github.io/composer/unstable/prereqs-ubuntu.sh
```

Step 1.2: Then you have to give permissions to it, by using this command:

```
- chmod u+x prereqs-ubuntu.sh
```

Step 1.3: run the script, as this briefly uses sudo during its execution, you will be prompted for your password.

- `./prereqs-ubuntu.sh`

Step 2: Install the CLI tools:

Note: There are a few useful CLI tools for Composer developers. Please don't use sudo or su for these commands.

Step 2.1: Composer-cli:

- `npm install -g composer-cli`

Step 2.2: Rest server:

- `npm install -g composer-rest-server`

Step 2.3: Hyperledger composer generator:

- `npm install -g generator-hyperledger-composer`

Step 2.4: Yeoman:

- `npm install -g yo`

Step 3: Install Playground:

- `npm install -g composer-playground`