

Hyperledger Fabric 环境配置

操作系统

常见的 Linux 系统（Ubuntu、CentOs、Redhat）和 MacOS 等 都可以运行fabric
如果是 window 电脑，可以通过安装 Ubuntu 虚拟机。

安装 cURL

mac 系统自带 cURL 所以不需要安装

Ubuntu系统


```
sudo apt install curl
```

Docker 和 Docker Compose


mac 系统

下载 Docker

<https://store.docker.com/editions/community/docker-ce-desktop-mac>

 docker store

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Docker Community Edition for Mac

By [Docker](#)

The fastest and easiest way to get started with Docker on Mac

Edition macOS x86-64

Get Docker Community Edition for Mac

Docker for Mac is available for free.

Requires Apple Mac OS Yosemite 10.10.3 or above.
Download [Docker Toolbox](#) for previous OS versions.

By downloading this, you agree to the terms of the [Docker Software End User License Agreement](#)

[↓ Get Docker](#) [Usage Instructions](#)

安装 Docker

```
docker --version
```

```
docker-compose --version
```

```
$ sudo apt-get update

$ sudo apt-get install \
    apt-transport-https \
    ca-certificates \
    curl \
    software-properties-common

$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add
-

$ sudo add-apt-repository \
    "deb [arch=amd64] https://download.docker.com/linux/ubuntu \
    $(lsb_release -cs) \
    stable"
```

```
stable"
```

- 安装 Docker CE

```
$ sudo apt-get update
```

```
$ sudo apt-get install docker-ce
```

```
$ sudo docker run hello-world
```

参考链接: <https://docs.docker.com/engine/installation/linux/docker-ce/ubuntu/#prerequisites>

Docker Compose 安装

```
sudo apt install docker-compose
```

Go 开发语言

mac 系统

安装 Homebrew

- 官网

```
https://brew.sh/index\_zh-cn.html
```

- 安装 Homebrew

```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

安装 go

```
$ brew install go
```

配置 GOPATH

```
vi ~/.bashrc
```

添加如下内容

```
export GOPATH=$HOME/go  
export PATH=$PATH:$GOPATH/bin
```

ubuntu 系统

- 下载 go1.9.2.linux-amd64.tar.gz

<https://golang.org/dl/>

- 解压 go1.9.2.linux-amd64.tar.gz

```
sudo tar -xzf go1.9.2.linux-amd64.tar.gz -C /usr/local
```

- 配置全局变量

```
$ sudo gedit ~/.bashrc
```

- 添加如下代码

```
export GOPATH=/usr/local/go  
export PATH=$GOPATH/bin:$PATH
```

- 重启配置文件

```
source ~/.bashrc
```

安装 Node.js

mac系统

第一种方法 brew 安装

```
$ brew install node
```

第二种方法 nvm 安装

- 安装 nvm

```
$ curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.33.7/install.sh | bash
```

- 配置 nvm

```
# 编辑 ~/.bashrc
$ vi ~/.bashrc

# 添加如下代码
export NVM_DIR="$HOME/.nvm"
. "$usr/local/opt/nvm/nvm.sh"

# 重新 source
source ~/.bashrc
```

ubuntu系统

- 下载 nodejs

```
curl -sL https://deb.nodesource.com/setup_8.x | sudo -E bash -
sudo apt-get install -y nodejs
```

- 检测 node 版本

```
nodejs -v
```

Python

由于 Ubuntu 16.04 安装的 python 版本为 3.5.1，Fabric Node.js SDK 要求python2.7版本
通过如下命令恢复到2.7

```
$ sudo apt-get install python
```

```
# 查询 python 版本
```

```
$ python --version
```