

Software specifications

Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
OpenSSL 1.0.2g 1 Mar 2016	Free	NA	NA	https://www.openssl.org	Any entry level PC or Mac	Ubuntu
Bitcoin client (any latest version)	Free	NA	NA	https://bitcoin.org/en/	Any entry level PC or Mac	Ubuntu
geth	Free	NA	NA	https://geth.ethereum.org/downloads/	Any entry level PC or Mac	Ubuntu , MacOS
Eth	Free	NA	NA	https://www.ethereum.org/cli	Any entry level PC or Mac	Ubuntu , MacOS
Parity	Free	NA	NA	https://www.parity.io	Any entry level PC or Mac	Ubuntu , MacOS
Remix	Free	NA	NA	https://remix.ethereum.org/	Any entry level PC or Mac	Ubuntu , MacOS
Pact	Free	NA	NA	http://kadena.io/pact/	Any entry level PC or Mac	Ubuntu , MacOS

node	Free	NA	NA	https://nodejs.org/en/	Any entry level PC or Mac	
Npm	FREE	NA	NA		Any entry level PC or Mac	
npm on off	FREE	NA	NA	npm install onoff	Any entry level PC or Mac	
Geth for ARM	FREE	NA	NA	http://ethembedded.com/?page_id=102 https://gethstore.blob.core.windows.net/builds/geth-linux-arm64-1.7.3-4bb3c89d.tar.gz https://geth.ethereum.org/downloads/		

Detailed installation steps (software-wise)

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book.

1. OpenSSL:

```
$ sudo apt-get install openssl
```

2. bitcoin node

```
$ sudo apt-get update
$ sudo apt-get install bitcoind
$ sudo apt-get install bitcoin-qt
$ sudo apt-get install bitcoin-qt bitcoind
```

3. geth

```
> sudo apt-get install -y software-properties-common
```

```
> sudo add-apt-repository -y ppa:ethereum/ethereum
```

```
> sudo apt-get update
```

```
> sudo apt-get install -y ethereum
```

4. Eth

```
sudo apt-get install cpp-ethereum
```

5. Parity

```
bash <(curl https://get.parity.io -Lk)
```

6. sawtooth setup

```
$ git clone https://github.com/IntelLedger/sawtooth-core.git
```

```
$ cd sawtooth-core/tools
```

```
$ vagrant up
```

7. Corda clone

```
$ git clone https://github.com/corda/corda.git
```

