

Chapter number	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
1	Node JS 8.x	Free			https://nodejs.org/en/download/		Linux/Mac/Windows
2	Java SE Development Kit JDK 8 8u162	Free			http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html		Linux/Mac/Windows
3	Git 2.16.x	Free			https://git-scm.com/downloads		Linux/Mac/Windows
4	Yarn 1.x	Free			https://yarnpkg.com/lang/en/docs/install/		Linux/Mac/Windows
5	Docker 17.x	Free			https://www.docker.com/community-edition		Linux/Mac/Windows
6	JHipster 4.14.1 or 5.x	Free			http://www.jhipster.tech/installation/		Linux/Mac/Windows
7	Google Cloud SDK 180.x	Free			https://cloud.google.com/sdk/docs/quickstarts		Linux/Mac/Windows

Detailed installation steps (software-wise)

1. Node JS:

1. Check for NodeJS by typing `node -v` in the terminal. It should display a version number. Make sure that the version number is greater than **8.9** and corresponds to the latest LTS version of NodeJS.
2. If the command is not found or if you have a lower version of NodeJS then you can visit the Node.js website(<https://nodejs.org/en/download/>) and follow the instructions to install the latest LTS version available. Please note that non-LTS version (current) might not be stable and it is advised not to use them.
3. Once installed check the command in step 1 again to make sure. As NodeJS alters the environment variables you would have to open a new terminal here.
4. NPM is automatically installed when you install NodeJS. You can check this by running `npm -v` in the terminal.

2. Java 8

1. Check for your installed Java version by running command `java -version` in the terminal. It should display java version "**1.8.x**" where x could be any patch version.
2. If you do not have the correct version installed you can visit the Oracle website(<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>) and follow the instructions to install JDK for Java 8.
3. Once installed check the command in step 1 again to make sure. As the

JDK alters the environment variable to set **JAVA_HOME** you would have to open a new terminal here.

3. Git

1. Check for Git by running `git --version` in the terminal. It should display git version x.x.x the version number can be anything.
2. If the command is not found you can visit <https://git-scm.com/downloads> and follow the instructions to install Git for your operating system.
3. Once installed check the command in step 1 again to make sure.

4. Yarn

1. You can visit the Yarn website(<https://yarnpkg.com/lang/en/docs/install/>) and follow the instructions to install Yarn.
2. Once installed check by running `yarn --version` to make sure.

5. Docker

1. Check for Docker by running `docker -v` in a terminal. It should display a version number.
2. Check for docker-compose by running `docker-compose -v` in a terminal. It should display a version number. If you are on Mac or Linux you could just run `docker -v && docker-compose -v` together.
3. If the command is not found you can visit the Docker website(<https://www.docker.com/community-edition>) and follow the instructions to install it. Also install docker compose by following the instructions.
4. Once installed check the command in step 1 again to make sure.

6. JHipster

1. In a terminal run, `yarn add global generator-jhipster` to install the package
2. Run `jhipster --version` to confirm

7. Google Cloud SDK

1. Download the binary (based on your operating system) from <https://cloud.google.com/sdk/>
2. Then install the application by following the steps given on the website. (make

sure that you have python installed)

3. Once installed, set up the Google cloud. In order to setup Google Cloud, run `gcloud init`.
4. This will ask you to login to your Google account.
5. Login with your credentials.