Blueventure: Blockchain Lab ✕

Track-and-Trace Blockchain Workshop for Hyperledger Fabric 2.2 (BETA)

▼ Create a Hyperledger Fabric Network

▶ Create Network & Member

▶ Accept invite and create Supplier member

Congratulations

▶ Setup Development Environment

▶ Set up a Fabric client

▼ Write and deploy chaincode

Chaincode development environment

Write chaincode

Create sharing policy

▼ **AWS account access**

Open AWS console (us-east-1) ⧉

Get AWS CLI credentials

Exit event

Chaincode development environment

ⓘ Only the **Retailer** must follow the instructions on this page.

Open a Cloud9 terminal and paste the following commands to setup a NodeJS development environment. Amazon Linux 2 instances come preinstalled with node version manager, otherwise, install it.

```
1   cd
2   nvm install 12.16.1
3   nvm use 12.16.1
4   nvm alias default 12.16.1
5   mkdir ~/environment/chaincode
6   touch ~/environment/chaincode/package.json
7   touch ~/environment/chaincode/products.js
8   touch ~/environment/chaincode/products_test.js
```

The above command installs Node.js version 12.16.1 and makes it the default on your Cloud9 instance; this Node.js version matches the containerized chaincode execution environment where peer(s) run the chaincode packages upon deployment (refer to NodeJS Chaincode Support and Compatibility for fabric-chaincode-node ⧉). These commands also create a new folder for you in the Cloud9 IDE called `chaincode`, where you will be placing your source code. You will be editing your chaincode in the Cloud9 IDE. Open that folder and replace the contents of `package.json` with the following code.

```
1    {
2      "name": "chaincode",
3      "version": "1.0.0",
4      "scripts": {
5        "test": "NODE_PATH=lib mocha *_test.js",
6        "start": "NODE_PATH=lib node products.js"
7      },
8      "dependencies": {
9        "fabric-shim": "^2.0.0",
10       "javascript-state-machine": "^3.1.0",
11       "loglevel": "^1.6.8"
12     },
13     "devDependencies": {
14       "@theledger/fabric-mock-stub": "^2.0.3",
15       "chai": "^4.2.0",
16       "chai-as-promised": "^7.1.1",
17       "chai-datetime": "^1.6.0",
18       "moment": "^2.25.3"
19     }
20   }
```

Save the file, then execute the following commands from the Cloud9 terminal to install chaincode dependencies.

```
1    npm install mocha@7.2.0 -g
2    cd ~/environment/chaincode && npm i
```

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