

Hyperledger Sawtooth Application - Supplychain Asset flow

Components

Running alongside the core components from Hyperledger Sawtooth, Supply Chain includes a number of elements customizing the blockchain and user interaction with it:

- a vendor-tp which handles Supply Chain transaction logic
- a vendorcustomer-shell container with the dependencies to run any commands and scripts
- a proxyserver process client's request to original API's / Resources
- a server generation of signed transaction
- a couchdb which store users,orders, goods & services data
- the VendorApp FrontEnd application for client

Requirements

| Tools & Services | Version |
|------------------|----------|
| Docker | 17.06.0+ |
| Docker Compose | 1.24.0+ |
| Node | 8 |
| Angular | 7 |

Start Up

1. Terminal 1: `cd EY_Blockchain/BackEnd/ && docker-compose -f docker-compose.yaml up` For Blockchain Network setup
2. Terminal 2: `cd EY_Blockchain/BackEnd/server/ && npm i && node server.js` For Generating signed Transactions
3. Terminal 3: `cd EY_Blockchain/FrontEnd/vendorapp/ && npm i && npm start` For Client UI Application Server
4. Terminal 4: Setup CouchDB
 1. `curl -X PUT http://admin:admin@127.0.0.1:5984/_users`
 2. `curl -X PUT http://admin:admin@127.0.0.1:5984/_replicator`
 3. `curl -X PUT http://admin:admin@127.0.0.1:5984/_global_changes`
 4. `curl -X PUT http://admin:admin@127.0.0.1:5984/users`
 5. `curl -X PUT http://admin:admin@127.0.0.1:5984/goodsnservices`
 6. `curl -X PUT http://admin:admin@127.0.0.1:5984/orders`

Endpoints

1. Proxy Server: `http://localhost:8000/api`
2. CouchDB: `http://localhost:5984/_utils`
3. VendorApp: `http://localhost:4200`