

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>