

Satellite Design Pattern over Ethereum with Truffle and Ganache

Installation

```
# apt install nodejs npm
$ npm install -g truffle
$ npm install -g ganache-cli
$ npm install web3 && npm install truffle-contract
```

Configuration

```
$ cd <project-path>
$ nano truffle-config.js
[...]
```

development: {	
host: "127.0.0.1",	// Localhost (default: none)
port: 8545,	// Standard Ethereum port (default: none)
network_id: "*",	// Any network (default: none)
},	

```
[...]
```

Testing the install and config

1. Runs Ganache: development blockchain

Block time mining each 15 seconds.

```
$ ganache-cli -b 15 --defaultBalanceEther 100000 --gas0x2FEFD800000 > ganache.log
```

2. Deploys the Smart Contracts with Truffle over Ganache

```
$ truffle deploy --reset
```

3. Runs NodeJS script within Truffle

```
$ truffle exec <script-filepath.js>
```

Launching the benchmarks

```
$ cd <project-path>
$ time -p ./scripts/all_bench.sh 2>logs/err.log >> logs/bench.log
```

No console output, just wait the end of it. Logs can be seen during or after the end of the bench.

See `'scripts/'` *to adapt the bench as defined into 'bench.js' and 'all_bench.sh'*.

Refer to files in `'logs/*'` to get our results.
