

TrueChain Mining guidelines (docker version)

Install docker

Ubuntu refer to <https://blog.csdn.net/bingzhongdehuoyan/article/details/79411479>.

Mac refer to https://blog.csdn.net/jiang_xinxing/article/details/58025417.

Windows refer to <http://www.runoob.com/docker/windows-docker-install.html>.

Start docker

```
service docker start
```

Pull TrueChain mirror image

```
docker pull
```

```
registry.cn-hangzhou.aliyuncs.com/truechain_space/truechain_image:latest
```

Change mirror image tag to gettrue

```
docker tag
```

```
registry.cn-hangzhou.aliyuncs.com/truechain_space/truechain_image gettrue
```

Set up config documentary

1. Set up truechain catalog `mkdir truechain`
2. Enter catalog `cd truechain`
3. set up config documentary, allocate according to different demands.
 - 1) participate committee election

```
Vi config
```

Copy the following modified document into config document

```
[Etrue]
EnableElection = true // participate committee election
Host = "124.251.110.179" // Change the IP address into outside network.
Etherbase = "0x58f5e2c7cf723c0e76ca1bc236bed39d2d82001d" // This is the mining
address, make sure to change it to your account address
```

2) If not participated in nodes election, and only chose mining vi config

Copy the following modified document into config document

```
[Etrue]
Host = "124.251.110.176" // Change the IP address into outside network.

Etherbase = "0x58f5e2c7cf723c0e76ca1bc236bed39d2d82001d"
// This is the mining address, make sure to change it to your account address
```

Note: command for outer net ip : `curl icanhazip.com`

Start automatic mining

Start the mining order, and choose according to the demand of the nodes

1. Participate in committee nodes mining

Enter truechain catalog, start automatic mining, start command according to different demand of the nodes.

1) Mine only fruit

```
docker run -v $PWD:/truechain-engineering-code -it -p 30311:30311 -p
30310:30310 -p 30303:30303 -p 9215:9215 gettrue --datadir
/truechain-engineering-code/data --config
/truechain-engineering-code/config --testnet --mine --minefruit
--election console
```

Mine fruit and blocks

```
docker run -v $PWD:/truechain-engineering-code -it -p 30311:30311 -p
30310:30310 -p 30303:30303 -p 9215:9215 gettrue --datadir
/truechain-engineering-code/data --config
/truechain-engineering-code/config --testnet --mine --election console
```

2. Parsing Commands

- P Map the pots in the container to be the host

- datadir data storage file
- minefruit mine only fruit
- this node participate in committee election

Mining that not participate in committee nodes election

1. enter truechain catalog, Start automatic mining

Start the mining order, and choose according to the demand of the nodes,

1) Mine only fruit

```
docker run -v $PWD:/truechain-engineering-code -it -p 30311:30311 -p
30310:30310 -p 30303:30303 -p 9215:9215 gettrue --datadir
/truechain-engineering-code/data --config
/truechain-engineering-code/config --testnet --mine --minefruit console
```

2) Mine fruit and blocks

```
docker run -it -p 30311:30311 -p 30310:30310 -p 30303:30303 -p 9215:9215
gettrue --datadir /truechain-engineering-code/data --etherbase
0x58F5E2c7cf723c0e76cA1bC236Bed39D2D82001D --testnet --mine --minefruit
console
```

3. 2.Parsing Commands

- P Map the pots in the container to be the host
 - datadir data storage file
 - minefruit mine only fruit
 - this node participate in committee election

Enter nodes control panel

1. Check mining address `coinbase: etrue,coinbase`
2. Check account balance: `etrue.getbalance('account address')` // account address is your mining address.
3. 3.stop mining: `miner.stop()`
4. The control panel restart mining, you can add numbers in the bracket to show the thread `miner.start()`
5. Exit the control panel and the program: `exit`