Win：192.168.1.45

Mac：192.168.1.223

初始化

cd /Users/lyz/Desktop/privatechain

cd C:/Users/z/Desktop/privatechain

geth --datadir data0 init genesis.json

geth --datadir data1 init genesis.json

geth --datadir data2 init genesis.json

启动

节点1

cd C:/Users/z/Desktop/privatechain

geth --identity "zly’s\_mac" --datadir "/Users/lyz/Desktop/privatechain/data0" --networkid 12345 --port 30301 --http --http.port 8545 --http.addr "localhost" --http.corsdomain "\*" --http.api "eth,net,web3,personal,miner" --rpc.enabledeprecatedpersonal --allow-insecure-unlock --nodiscover console 3

--rpc.enabledeprecatedpersonal

使用上述命令，可以重启personal接口

新建账号

geth --datadir "C:/Users/z/Desktop/privatechain/data0" account new

(新的命令行操作)

口令均为001

Public address of the key: 0x77F206B5b54317790Bf8a399595fe3Ebc17e0489

Path of the secret key file: C:\Users\z\AppData\Local\Ethereum\keystore\UTC--2024-06-22T03-11-33.081789200Z--77f206b5b54317790bf8a399595fe3ebc17e0489

Public address of the key: 0x2D7095AB782926c6b010950485cdd4780b8F1D2d

Path of the secret key file: C:\Users\z\Desktop\privatechain\keystore\UTC--2024-06-22T03-16-34.433844500Z--2d7095ab782926c6b010950485cdd4780b8f1d2d

Public address of the key: 0xA1F2fA0aBE77fC98A4195294c7088b78386805bf

Path of the secret key file: C:\Users\z\Desktop\privatechain\data0\keystore\UTC--2024-06-22T03-19-54.331189800Z--a1f2fa0abe77fc98a4195294c7088b78386805bf

解锁

personal.unlockAccount(eth.accounts[0])

查余额

web3.fromWei(eth.getBalance(eth.accounts[0]),'ether')

挖一个区块就停止

miner.start(1);admin.sleepBlocks(1);miner.stop();

设置账号

miner.setEtherbase(eth.accounts[0]);

开始挖矿

miner.start()

miner.stop()

列举所有账号

eth.accounts

查询余额

eth.getBalance(eth.accounts[0])

查询难度

eth.getBlock('latest').difficulty

查询所有peer

admin.peers

查询区块高度

eth.blockNumber

添加peers

admin.addPeer("enode://b6d889ec6b3d3844777641db7b10fe4029e373ac1439655227f8109186ab732ada892f16d49b7cd00c74f3f43eaa4090d2319d7c155dbc5e4bcc6cd3aea912f1@192.168.2.48:30301?discport=0")

win账户0xa1f2fa0abe77fc98a4195294c7088b78386805bf

Mac账户0x4064182fb50107610a5d61ec2219b28771cd846a

eth.getBalance("0xa1f2fa0abe77fc98a4195294c7088b78386805bf")

转账

eth.sendTransaction({from:eth.accounts[0], to:"0xa1f2fa0abe77fc98a4195294c7088b78386805bf", value:100})

eth.sendTransaction({from:eth.accounts[0], to:"0xa1f2fa0abe77fc98a4195294c7088b78386805bf", value:100, data: '0x68656c6c6f776f7264efbc8c6920616d205a4c59efbc8c492077616e7420746f207465737420746865206d6178206c656e677468206f6620646174612e'})

eth.sendTransaction({from:eth.accounts[0], to:"0xa1f2fa0abe77fc98a4195294c7088b78386805bf", value:100, data: '0x74686973206973206d79207365636f6e64206d657373616765'})

查看总区块数量

eth.blockNumber

获取最新区块

eth.getBlock("lasest")

查看交易

eth.getTransaction('0x8dc5e310c3cf3dc68d90208d651ce5e4a3831b2f2490b3b5400c3fac4260be9e')

查看交易池

txpool.status

eth.blockNumber

eth.sendTransaction({from:eth.accounts[0], to:"0xa1f2fa0abe77fc98a4195294c7088b78386805bf", value:100, data: '0x68656c6c6f776f7264efbc8c6920616d205a4c59efbc8c492077616e7420746f207465737420746865206d6178206c656e677468206f6620646174612e'})

miner.start(1);admin.sleepBlocks(1);miner.stop();

eth.blockNumber