



多节点树状区块链部署

```
# 第一个节点
# 初始化
geth --datadir ./gethdata --networkid 91036 --port 30303 --rpc --rpcaddr 127.0.0.1 --rpcport 8545 --rpcapi 'db,net,eth,web3,personal' --rpccorsdomain "*" --ws --wsaddr "localhost" --wsport "8546" --wsorigins "*" --wsapi 'personal,net,eth,web3,admin' --nodiscover --allow-insecure-unlock --dev.period 1 --syncmode "full" init ./genesis.json
# 启动
geth --datadir ./gethdata --networkid 91036 --port 30303 --rpc --rpcaddr 127.0.0.1 --rpcport 8545 --rpcapi 'db,net,eth,web3,personal' --rpccorsdomain "*" --ws --wsaddr "localhost" --wsport "8546" --wsorigins "*" --wsapi 'personal,net,eth,web3,admin' --nodiscover --allow-insecure-unlock --dev.period 1 --syncmode "full" console
```

```
#第二个节点
#初始化
geth --datadir ./gethdata --networkid 91036 --port 30304 --rpc --rpcaddr 127.0.0.1 --rpcport 8547 --rpcapi 'db,net,eth,web3,personal' --rpccorsdomain "*" --ws --wsaddr "localhost" --wsport "8548" --wsorigins "*" --wsapi 'personal,net,eth,web3,admin' --nodiscover --allow-insecure-unlock --dev.period 1 --syncmode "full" init ./genesis.json

#启动
geth --datadir ./gethdata --networkid 91036 --port 30304 --rpc --rpcaddr 127.0.0.1 --rpcport 8547 --rpcapi 'db,net,eth,web3,personal' --rpccorsdomain "*" --ws --wsaddr "localhost" --wsport "8548" --wsorigins "*" --wsapi 'personal,net,eth,web3,admin' --nodiscover --allow-insecure-unlock --dev.period 1 --syncmode "full" console
```

```
# 创建账户
personal.newAccount("123456")
personal.newAccount("123456")
personal.newAccount("123456")
personal.newAccount("123456")
personal.newAccount("123456")
personal.newAccount("123456")
personal.newAccount("123456")
personal.newAccount("123456")

# 解锁账户
personal.unlockAccount(eth.accounts[0], "123456", 0)
```

```
personal.unlockAccount(eth.accounts[1], "123456", 0)
personal.unlockAccount(eth.accounts[2], "123456", 0)
personal.unlockAccount(eth.accounts[3], "123456", 0)
personal.unlockAccount(eth.accounts[4], "123456", 0)
personal.unlockAccount(eth.accounts[5], "123456", 0)
personal.unlockAccount(eth.accounts[6], "123456", 0)
personal.unlockAccount(eth.accounts[7], "123456", 0)

# 查看账户余额
eth.getBalance(eth.accounts[0])
```

获取第一个节点信息 在1的控制台中输入：

```
> admin.nodeInfo.enode
```

第二个节点添加c1为静态节点，在c2中输入：

```
> admin.addPeer("")
//注意，将其中的0.0.0.0替换为c1的IP地址 admin.addPeer("enode://82e2a1e2d86906266625fc20104
6aa4a195d897a00e5cdb3e29765ce805be4aeb360861d7e8b46dcd455aa406101e795942f49e9857fa6d64
0f5d850fef2cca7@10.108.21.132:30303")
```

返回true,并用

```
> admin.peers
```

查看是否互相链接,若连接成功，则显示节点c1的信息。由于此时网络中只有2个节点，也可以用

```
> net.peerCount
```

查看当前网络中的对等节点个数，显示结果为

```
> 1
```

StoreMap.sol合约部署

部署合约contract在移动区块链上,将下述代码直接粘贴到控制台

```
abi = JSON.parse('[{"constant":false,"inputs":[{"internalType":"bytes32","name":"hash","type":"bytes32"},{"internalType":"uint256","name":"gid","type":"uint256"}],"name":"add_area_line","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"uint256","name":"gid","type":"uint256"},{"internalType":"int32","name":"minzoom","type":"int32"},{"internalType":"int32","name":"cost","type":"int32"},{"internalType":"int32","name":"source","type":"int32"},{"internalType":"int32","name":"target","type":"int32"},{"internalType":"bool","name":"oneway","type":"bool"},{"internalType":"bool","name":"building","type":"bool"},{"internalType":"bytes32","name":"highway","type":"bytes32"},{"internalType":"bytes32","name":"name","type":"bytes32"},{"internalType":"bytes32","name":"gtype","type":"bytes32"},{"internalType":"bytes32[]","name":"path","type":"bytes32[]"}],"name":"add_onetype","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":true,"inputs":[{"internalType":"bytes32","name":"","type":"bytes32"}],"name":"adjacencyList","outputs":[{"internalType":"uint256","name":"adjnum","type":"uint256"}],"payable":false,"stateMutability":"view","type":"function"},{"constant":false,"inputs":[{"internalType":"bytes32","name":"startGeohash","type":"bytes32"},{"internalType":"bytes32","name":"endGeohash","type":"bytes32"}],"name":"astar","outputs":[{"internalType":"bytes32[]","name":"backwards","type":"bytes32[]"},{"internalType":"uint256","name":"costAll","type":"uint256"}],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"uint256","name":"newP","type":"uint256"}],"name":"changeP","outputs":[{"internalType":"uint256","name":"","type":"uint256"}],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"uint256","name":"newPrecision","type":"uint256"}],"name":"changePrecision","outputs":[{"internalType":"uint256","name":"","type":"uint256"}],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"string","name":"dequeue","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"bytes32","name":"geohash","type":"bytes32"},{"internalType":"uint256","name":"cost","type":"uint256"}],"name":"enqueue","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":true,"inputs":[{"internalType":"bytes32","name":"","type":"bytes32"}],"name":"geo_maps","outputs":[{"internalType":"uint256","name":"num","type":"uint256"}],"payable":false,"stateMutability":"view","type":"function"},{"constant":true,"inputs":[{"internalType":"string","name":"geohash","type":"string"}],"name":"getLatBlock","outputs":[{"internalType":"uint256","name":"","type":"uint256"}],"payable":false,"stateMutability":"view","type":"function"},{"constant":true,"inputs":[{"internalType":"string","name":"geohash","type":"string"}],"name":"getLonBlock","outputs":[{"internalType":"uint256","name":"","type":"uint256"}],"payable":false,"stateMutability":"view","type":"function"},{"constant":true,"inputs":[{"internalType":"bytes32","name":"hash","type":"bytes32"}],"name":"get_types","outputs":[{"internalType":"int32[]","name":"feature","type":"int32[]"},{"internalType":"bytes32[]","name":"names","type":"bytes32[]"},{"internalType":"bytes32[]","name":"highways","type":"bytes32[]"},{"internalType":"bytes32[]","name":"gtypes","type":"bytes32[]"},{"internalType":"bytes32[]","name":"path","type":"bytes32[]"}],"payable":false,"stateMutability":"view","type":"function"},{"constant":true,"inputs":[{"internalType":"bytes32","name":"nextGeohash","type":"bytes32"},{"internalType":"bytes32","name":"endGeohash","type":"bytes32"}],"name":"manhattan
```

```
\", \"outputs\": [{\"internalType\": \"uint256\", \"name\": \"\", \"type\": \"uint256\"}], \"payable\": false, \"stateMutability\": \"view\", \"type\": \"function\"}, {\"constant\": true, \"inputs\": [{\"internalType\": \"bytes32\", \"name\": \"geohash1\", \"type\": \"bytes32\"}, {\"internalType\": \"bytes32\", \"name\": \"geohash2\", \"type\": \"bytes32\"}], \"name\": \"sliceGeoHash\", \"outputs\": [{\"internalType\": \"string\", \"name\": \"\", \"type\": \"string\"}, {\"internalType\": \"string\", \"name\": \"\", \"type\": \"string\"}], \"payable\": false, \"stateMutability\": \"view\", \"type\": \"function\"}, {\"constant\": true, \"inputs\": [], \"name\": \"top\", \"outputs\": [{\"internalType\": \"bytes32\", \"name\": \"\", \"type\": \"bytes32\"}], \"payable\": false, \"stateMutability\": \"view\", \"type\": \"function\"}]')
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```

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```
StoreMapContract = web3.eth.contract(abi);  
web3.eth.estimateGas({data: bytecode})  
StoreMap = StoreMapContract.new({  
    from: web3.eth.accounts[0],  
    data: bytecode,
```

```

        gas: '3000000',
        position:"w2511111111111",
        txtime:277001
    },function (e, contract){
        console.log(e, contract);
        if(!e){
            if(!contract.address) {
                console.log("Contract transaction send: TransactionHash: " + contract.transactionHash + " waiting to be mined...");
            } else {
                console.log("Contract mined! Address: " + contract.address);
                console.log(contract);
            }
        }
    });
});

```

StoreTraffic.sol合约部署

部署合约contract在移动区块链上,将下述代码直接粘贴到控制台

```

abi = JSON.parse('[{"anonymous":false,"inputs":[{"indexed":false,"internalType":"bytes32","name":"vehicleId","type":"bytes32"},{"indexed":false,"internalType":"bytes32","name":"passengerId","type":"bytes32"},{"indexed":false,"internalType":"bytes32","name":"passengerGeohash","type":"bytes32"}],"name":"Myevent","type":"event"},{"anonymous":false,"inputs":[{"indexed":false,"internalType":"bytes32","name":"vehicleId","type":"bytes32"}],"name":"boardEvent","type":"event"},{"anonymous":false,"inputs":[{"indexed":false,"internalType":"bytes32","name":"vehicleId","type":"bytes32"}],"name":"payEvent","type":"event"},{"anonymous":false,"inputs":[{"indexed":false,"internalType":"bytes32","name":"passengerId","type":"bytes32"}],"name":"rejectEvent","type":"event"},{"anonymous":false,"inputs":[{"indexed":false,"internalType":"bytes32","name":"passengerId","type":"bytes32"}],"name":"routeEvent","type":"event"},{"constant":false,"inputs":[{"internalType":"uint256","name":"newPrecision","type":"uint256"}],"name":"changePrecision","outputs":[{"internalType":"uint256","name":"","type":"uint256"}],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"bytes32","name":"vehicleId","type":"bytes32"}],"name":"confirmBoard","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"bytes32","name":"vehicleId","type":"bytes32"}],"name":"confirmPay","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":false,"inputs":[{"internalType":"bytes32","name":"vehicleId","type":"bytes32"}],"name":"deleteVehicle","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":true,"inputs":[{"internalType":"string","name":"geohash","type":"string"}],"name":"getLatBlock","outputs":[{"internalType":"uint256","name":"","type":"uint256"}],"payable":false,"stateMutability":"view","type":"function"},{"constant":true,"inputs":[{"internalType":"string","name":"geohash","type":"string"}],"name":"getLonBlock","outputs":[{"internalType":"uint256","name":"","type":"uint256"}],"payable":false,"stateMutability":"view","type":"function"},{"constant":false,"inputs":[{"internalType":"bytes32","name":"passengerId","type":"bytes32"}],"name":"getPassengerEnd","outputs":[{"internalType":"bytes32","name":"end","type":"bytes32"}],"payable":false,"stateMutability":"nonpayable","type":"function"},{"constant":true,"inputs":[{"internalType":"bytes32","name":"passengerId","type":"bytes32"}],"name":"getPassengerStart","outputs":[{"internalType":"bytes32","name":"start","type":"bytes32"}],"payable":false,"stateMutability":"nonpayable","type":"function"}]')

```



```

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```

```
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```

        console.log(contract);
    }
}
});

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trafficContract = web3.eth.contract(abi);
web3.eth.estimateGas({data: bytecode})
traffic = trafficContract.new({
  from: web3.eth.accounts[0],
  data: bytecode,
  gas: '4000000',
  position:"w251111111111",
  txtime:277001
},function (e, contract){
  console.log(e, contract);
  if(!e){
    if(!contract.address) {
      console.log("Contract transaction send: TransactionHash: " + contract.trans
sactionHash + " waiting to be mined...");
    } else {
      console.log("Contract mined! Address: " + contract.address);
      console.log(contract);
    }
  }
});

```

```

abi = JSON.parse('[{"anonymous":false,"inputs":[{"indexed":false,"internalType
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nalType":"bytes32","name":"passengerId","type":"bytes32"},{"indexed":fals
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\":"bytes32\", \"name\":"endGeohash\", \"type\":"bytes32\"}], \"name\":"manhattan
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```


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[illegible]

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6f6c63430005100032"
trafficContract = web3.eth.contract(abi);
web3.eth.estimateGas({data: bytecode})
traffic = trafficContract.new({
  from: web3.eth.accounts[0],
  data: bytecode,
  gas: '4000000',
  position:"w2511111111111",
  txtime:277001
},function (e, contract){
  console.log(e, contract);
  if(!e){
    if(!contract.address) {
      console.log("Contract transaction send: TransactionHash: " + contract.trans
actionHash + " waiting to be mined...");
    } else {
      console.log("Contract mined! Address: " + contract.address);
      console.log(contract);
    }
  }
});

```

开始挖矿🛠️，原则上说链接的那个节点挖也可以，等待返回地址，保存好地址。