# Join Pchain main network

1. Download Files

    https://github.com/pchain-org/pchain/releases/download/pre-release/pchain_init_dirs.zip

    The script file install_pchain.sh used to connect the test network is included in the compressed package.

2. Install Command Line
(https://github.com/pchain-org/pchain/wiki/Install_):

The link contains the contents of the installation script.

3. Check network

    (Check whether the network has been successfully connected)

    View local logs:

    tail -f log/pchain.log



    Get the current block number:

See if the hash value returned by the same block is the same as that of the primary network.

curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_blockNumber","params":[],"id":1}' localhost:6969/pchain

pchain@pchain-01:~/pchain$ curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_blockNumber","params":[],"id":1}' localhost:6969/pchain
{"jsonrpc":"2.0","id":1,"result":"0xdcfc9"}

Result blockNumber:{"jsonrpc":"2.0","id":1,"result":"0xdcfc9"}

Get block number 0xdcfc9 details:

(params:Fill in according to the local return value)

curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_getBlockByNumber","params":["0xdcfc9",true],"id":1}' localhost:6969/pchain

pchain@pchain-01:~/pchain$ curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_getBlockByNumber","params":["0xdcfc9",true],"id":1}' localhost:6969/pchain
{"jsonrpc":"2.0","id":1,"result":{"difficulty":"0x1","extraData":"0x010670636861696e00000000000dcfc91579ab2a9a77e1c0000000000000000000b011499fe1a0043512737adc98fa57010a5ed29e2e125011459f79153da4cc9dccbb13c95207be6c3c95bf495010114f5675e13db974ec4159cc8b828f36054442a0e7900000000000000010114b6cf67bd56147dc53df149485786e78bd7d3d65100000000000dcfc900014025a8d2ce406868d90526ed375424fe4ed5ea493688aa6969cfa3531f4a129f7952c035ad861990d2656a1ee4acf6dcdafc8c19fa10d11f43f6d36719ac0974d2010000000000004010100000000000000000d00","gasLimit":"0x169d08cc40","gasUsed":"0x0","hash":"0x723020e29263f7cda758b2c54a6a6b285eb43aaea7a899dc48984a78f1860ff8","logsBloom":"0x00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000","mainchainNumber":"0x0","miner":"0x00000000000000000000000000000000000000000000","mixHash":"0x63746963616c2062797a616e74696e6e65206561756e6c646f60206a5c5261756e6f6572206c746f6561776e656e65656e65","nonce":"0x0000000000000000","number":"0xdcfc9","parentHash":"0x8a76326db3961b393844deacd155a79a094d36513baf189ae81ca09b1e267f0d","receiptsRoot":"0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421","sha3Uncles":"0x1dcc4de8dec75d7aab85b567b6ccd41ad312451b948a7413f0a142fd40d49347","size":"0x2e5","stateRoot":"0xfad7017e583b505f353b1c79ba31569e75a6d8ed47a47e7c13642e26bff7fc7a","timestamp":"0x5c3c4e91","totalDifficulty":"0xdd3c9","transactions":[],"transactionsRoot":"0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421","uncles":[]}}
pchain@pchain-01:~/pchain$

Check main network block number 0xdcfc9 details:

(Pchain Testnet Ip:34.221.29.3)

curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_getBlockByNumber","params":

["0xdcfc9",true],"id":1}' 34.221.29.3:6969/pchain

pchain@pchain-01:~/pchain$ curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_getBlockByNumber","params":["0xdcfc9",true],"id":1}' 34.221.29.3:6969/pchain
{"jsonrpc":"2.0","id":1,"result":{"difficulty":"0x1","extraData":"0x010670636861696e00000000000dcfc91579ab2a9a77e1c0000000000000000000b011499fe1a0043512737adc98fa57010a5ed29e2e125011459f79153da4cc9dccbb13c95207be6c3c95bf495010114f5675e13db974ec4159cc8b828f36054442a0e790000000000000000010114b6cf67bd56147dc53df149485786e78bd7d3d65100000000000dcfc900014025a8d2ce406868d90526ed375424fe4ed5ea493688aa6969cfa3531f4a129f7952c035ad861990d2656a1ee4acf6dcdafc8c19fa10d11f43f6d36719ac0974d2010000000000000004010100000000000000000d00","gasLimit":"0x169d08cc40","gasUsed":"0x0","hash":"0x723020e29263f7cda758b2c54a6a6b285eb43aaea7a899dc48984a78f1860ff8","logsBloom":"0x0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000","mainchainNumber":"0x0","miner":"0x0000000000000000000000000000000000000000","mixHash":"0x63746963616c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c6c","nonce":"0x0000000000000000","number":"0xdcfc9","parentHash":"0x8a76326db3961b393844deacd155a79a094d36513baf189ae81ca09b1e267f0d","receiptsRoot":"0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421","sha3Uncles":"0x1dcc4de8dec75d7aab85b567b6ccd41ad312451b948a7413f0a142fd40d49347","size":"0x2e5","stateRoot":"0xfad7017e583b505f353b1c79ba31569e75a6d8ed47a47e7c13642e26bff7fc7a","timestamp":"0x5c3c4e91","totalDifficulty":"0xdd3c9","transactions":[],"transactionsRoot":"0x56e81f171bcc55a6ff8345e692c0f86e5b48e01b996cadc001622fb5e363b421","uncles":[]}}
pchain@pchain-01:~/pchain$

Successful connection to primary network with the same hash value,

"hash":"0x723020e29263f7cda758b2c54a6a6b285eb43aaea7a899dc48984a78f1860ff8"

4. Checking account balance

1) Check account

```
curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_accounts","params":[],"id":1}' localhost:6969/pchain
```

pchain@pchain-01:~/pchain$ curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_accounts","params":[],"id":1}' localhost:6969/pchain
{"jsonrpc":"2.0","id":1,"result":["0x5defded18fe902f3f005a81d25955522416c6470"]}
pchain@pchain-01:~/pchain$

```
curl -X POST -H "Content-Type:application/json" --data
```

'{"jsonrpc":"2.0","method":"eth_getBalance","params":["0x5d

efded18fe902f3f005a81d25955522416c6470", "latest"],"id":1}'

localhost:6969/pchain

```
pchain@pchain-01:~/pchain$ curl -X POST -H "Content-Type:application/json" --data '{"jsonrpc":"2.0","method":"eth_getBalance","params":["0x5defded18fe902f3f005a8
1d25955522416c6470", "latest"],"id":1}' localhost:6969/pchain
{"jsonrpc":"2.0","id":1,"result":"0x0"}
pchain@pchain-01:~/pchain$
pchain@pchain-01:~/pchain$
```

Accessing the water tap page of the test network to get the TPAI of the account

(https://github.com/pchain-org/pchain/blob/master/docs/Vote_and_Reveal_Vote_for_Validator.

pdf)