RECORDS KEEPER

D-313, Second Floor,
Village Mohammadpur,
RK Puram, New Delhi – 110066
Cell: +91-9910433954

MultiChain

Private Blockchain Platform

Round-robin Mining

How to Enable Mining through Nodes

As we already discussed, mining in the process of adding a Block by the miners through some computation method. This can be hard or difficult based on the nature of the Blockchain. We will see how we can enable a node to mine the block into the Blockchain in MultiChain.

Step 0: Make sure you are connected to Node-1 & Node-2 using SSH & clearly identify which one is Node-1 & which one is Node-2

ssh –i [full path of .pem file] Ubuntu@[Public IP of your node]

Step 1: Lets create a stream and try to publish & retrieve some data into or from it.

Let's first check who has the permission for mining. Try this command below to check who has the permission to mine. You will see only one permitted miner.

listpermissions mine

Let's start collaborative mining between the nodes. On the Node-1, run:

grant [node-2 address] mine

On the Node-2, check that two permitted miners are listed:

listpermissions mine

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Now wait for a couple of minutes, so that a few blocks are mined. (This assumes you left the block time on the default of 15 seconds.) On either server, check the current block height:

```
getinfo
```

The block height is in the blocks field of the response. Now let's get information about the last few blocks, beginning with this one:

```
getblock [block-height]
```

The address of the miner of each block is in the miner field of the response. In different blocks you should see the two different addresses in this field.

That's it for this lecture.

If you are interested in conducting Blockchain training in your city, office or country please reach out to us using this link or drop us an email at training@recordskeeper.co.