Steps to become a validator:

Step 1:

Download geth executable and genesis file from the link below:

https://drive.google.com/drive/folders/1I1CS-pkjKNsZPCFxnDBb86oFdHaYn2gp?usp=sharing

Step 2: Create a directory for validator node

If you are using ssh then open the terminal, login to ssh and run the following command:

- Create a folder for node to store node data on preferred path by running command
  $ mkdir node
- Create a data folder inside node folder by running commands
  $ cd node
  $ mkdir data

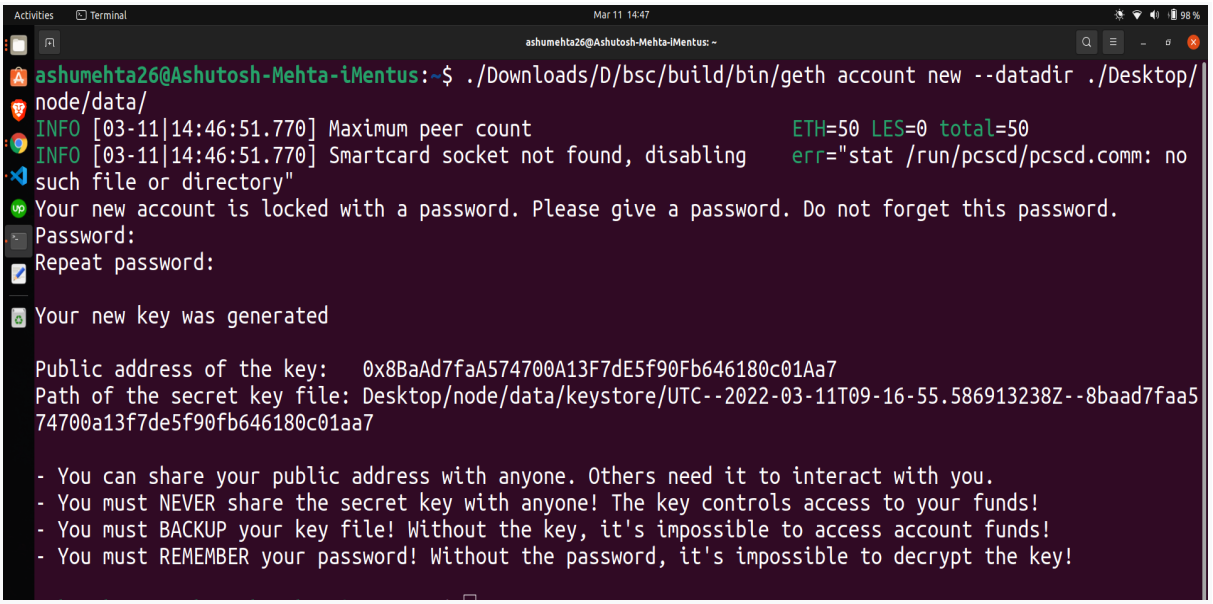
If you are using windows then open the command prompt and run the following commands:

- Create a folder for node to store node data by running command
  $ mkdir node
- Create a data folder inside node folder by running commands
  $ cd node
  $ mkdir data

Step 3: Create an account to become validator using command:

$ ./<path of the downloaded geth executable>/geth account new --datadir ./<path of the node and data folder>/node/data

After executing the command, set a password for your account and press enter, you will see the following output.



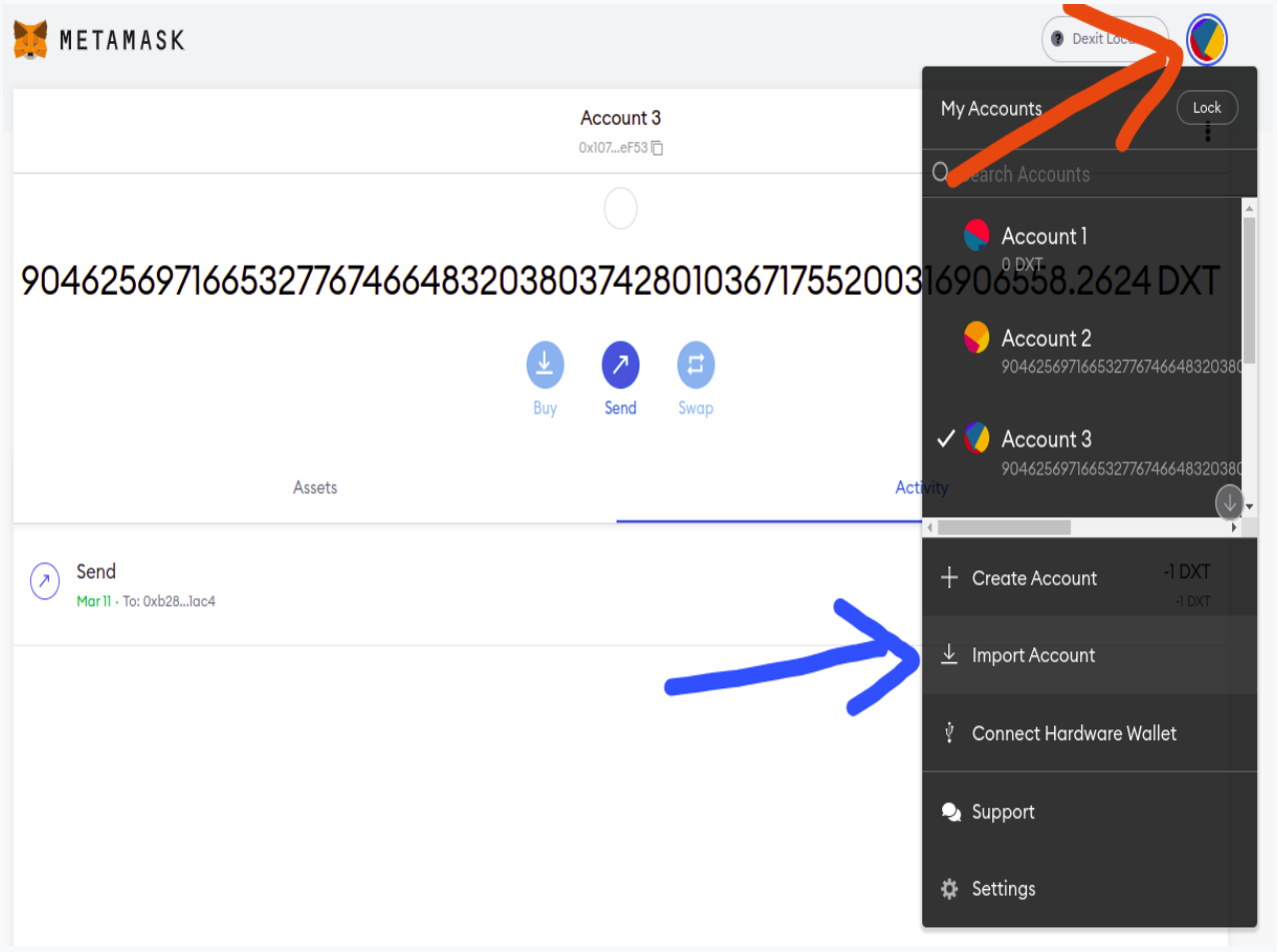
Account address in the above screenshot is: 0x8BaAd7faA574700A13F7dE5f90Fb646180c01Aa7

You will get a unique account address while creating an account.

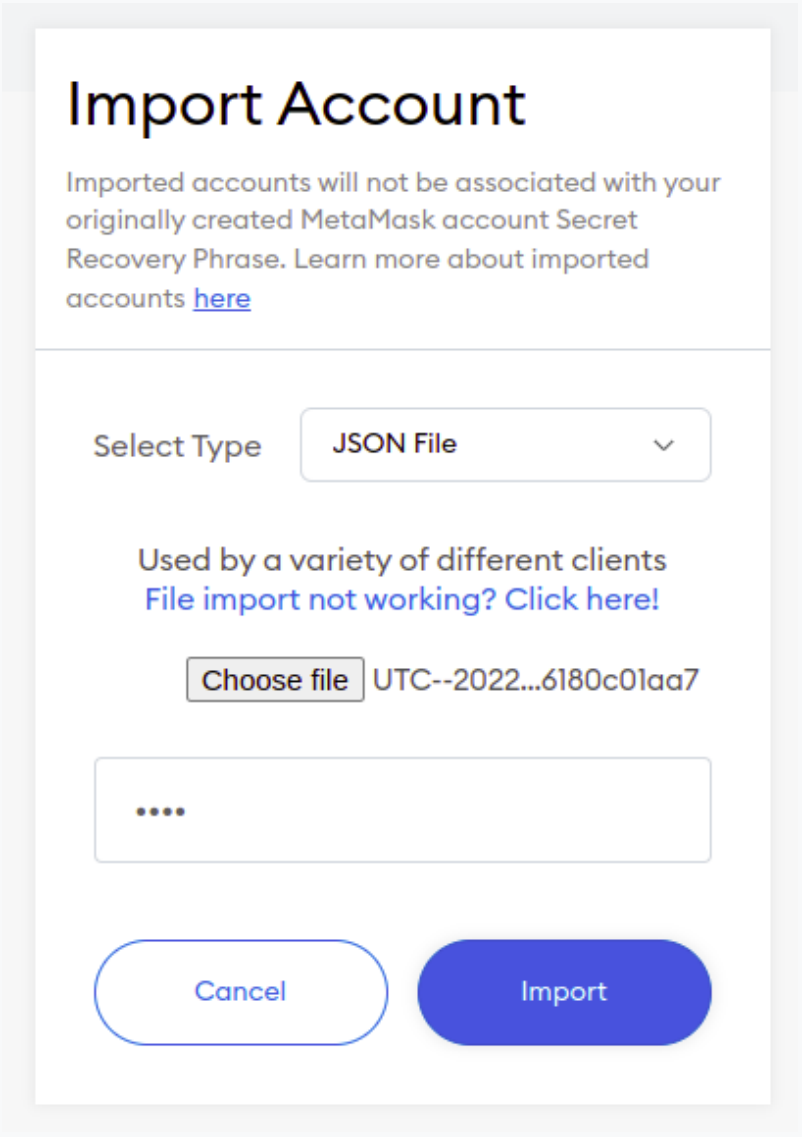
Path of the secret key file: Desktop/node/data/keystore/UTC--2022-03-11T09-16-55.586913238Z--8baad7faa574700a13f7de5f90fb646180c01aa7

The UTC file in the keystore contains the private key of your account. You must never share the secret file with anyone.

Step 4: Import the account into Metamask using UTC file:



- Click on the button pointing orange arrow, then
- Click on import account. It will show the following prompt.



- Change the Select Type from PRIVATE KEY to JSON File.
- Choose the account file from the keystore folder.
- Enter the password of the account (Do not enter the password of Metamask Wallet)
- Then click on import button

Please wait for sometime. It may take few minutes to import the account into Metamask.

After successful import, initialise the node using following command:

$ ./<path of the geth executable>/geth init --datadir ./<path of node data folder>/node/data ./<path of the genesis file>/genesis.json

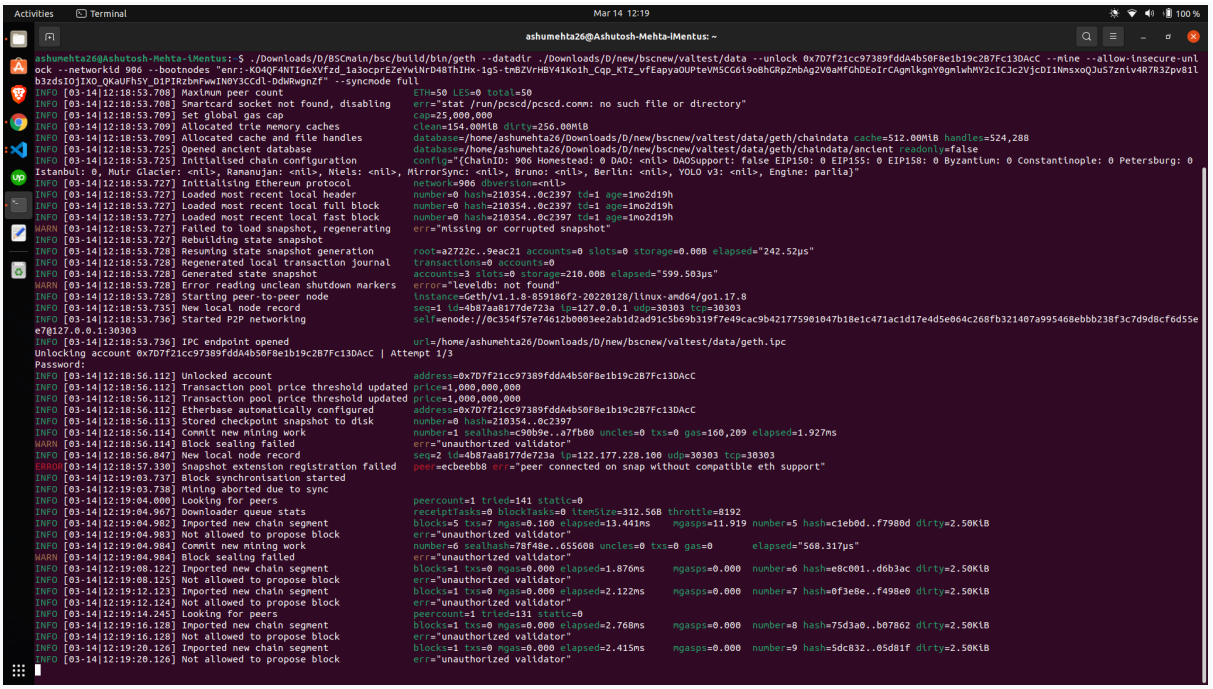
```
ashumehta26@Ashutosh-Mehta-iMentus:~/Downloads$ ./bin/geth init --datadir ./D/new/node/data ./D/new/node/dexitlive.json
INFO [01-20|12:42:32.618] Maximum peer count                       ETH=50 LES=0 total=50
INFO [01-20|12:42:32.619] Set global gas cap                       cap=25,000,000
INFO [01-20|12:42:32.619] Allocated cache and file handles         database=/home/ashumehta26/Downloads/D/new/node/data/geth/chaindata cache=16.0
0MiB handles=16
INFO [01-20|12:42:32.624] Writing custom genesis block
INFO [01-20|12:42:32.631] Persisted trie from memory database      nodes=355 size=50.43KiB time=1.548138ms gcnodes=0 gcsize=0.00B gctime=0s liven
odes=1 livesize=0.00B
INFO [01-20|12:42:32.632] Successfully wrote genesis state         database=chaindata hash=2abc0e..8eca1c
INFO [01-20|12:42:32.632] Allocated cache and file handles         database=/home/ashumehta26/Downloads/D/new/node/data/geth/lightchaindata cache
=16.00MiB handles=16
INFO [01-20|12:42:32.637] Writing custom genesis block
INFO [01-20|12:42:32.643] Persisted trie from memory database      nodes=355 size=50.43KiB time=1.262025ms gcnodes=0 gcsize=0.00B gctime=0s liven
odes=1 livesize=0.00B
INFO [01-20|12:42:32.643] Successfully wrote genesis state         database=lightchaindata hash=2abc0e..8eca1c
```

Then, run a validator node by running following command:

$ ./<path of the downloaded geth executable>/geth --datadir ./<path of the node data folder>/node/data --unlock <Your account public key/address> --mine --allow-insecure-unlock --networkid 899 --bootnodes "enr:-KO4QPc0ZYK2R6Ls8AB4WTnNkrAfNn6NMfbPWTrZplO6cV6GX6MzllwmFWbYmFK14QpBybKg85FP6G6Nw8BZQ6XpAsQPhGRpZmbAg2V0aMfGhLHCz8SAgmlkgnY0gmlwhKIA3YeJc2VjcDI1NmsxoQLRlJvt3ilUo1kCeesW-klw4DHiPqwnA-HtNz_2Wi89AlRzbmFwwIN0Y3CCdI-DdWRwgnZf" --syncmode full

After running the command, you need to enter the password of the account. Your password will not be visible on the console and output will keep forwarding. Ignore the output forwarding, type the password and press ENTER.

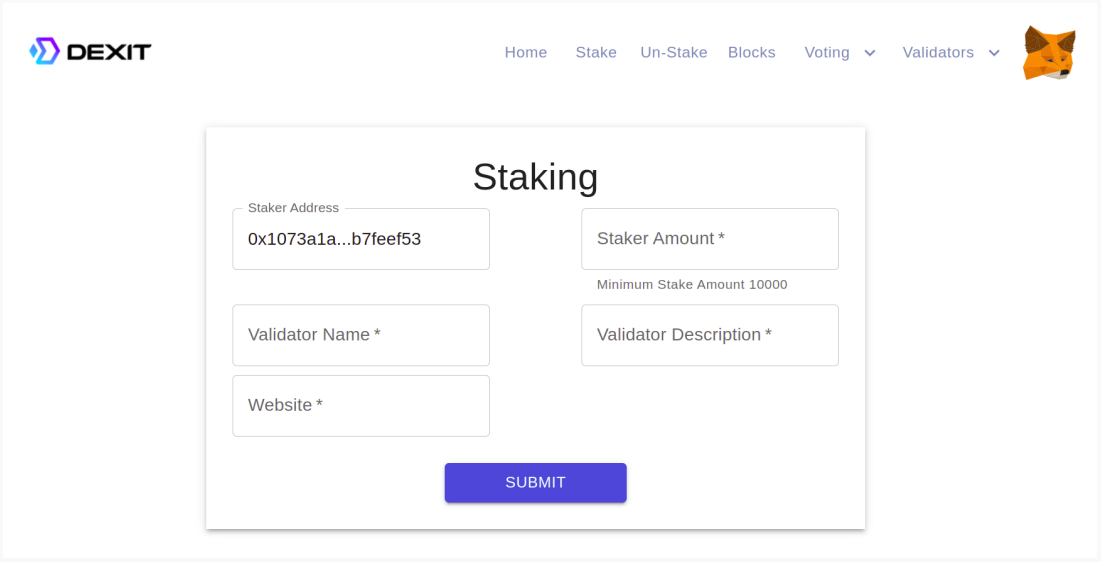
You will successfully unlock the message on the console.
You will see following output as unauthorised validator because staking is not performed yet:



You need to stake DXTs to become a validator.

Steps to stake DXTs to become a validator:
Click on the following link:
https://testnet.dxtscan.com/staking

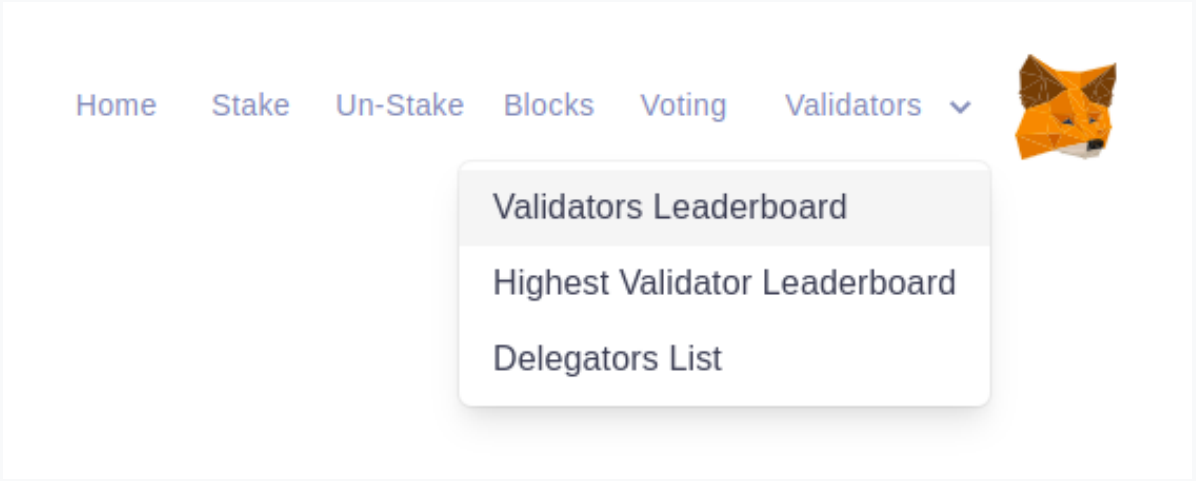
- Connect the Metamask wallet by clicking on the Metamask logo.
- After connecting successfully to your account, click on the STAKE button.
- Select the imported account in Metamask to stake the DXTs



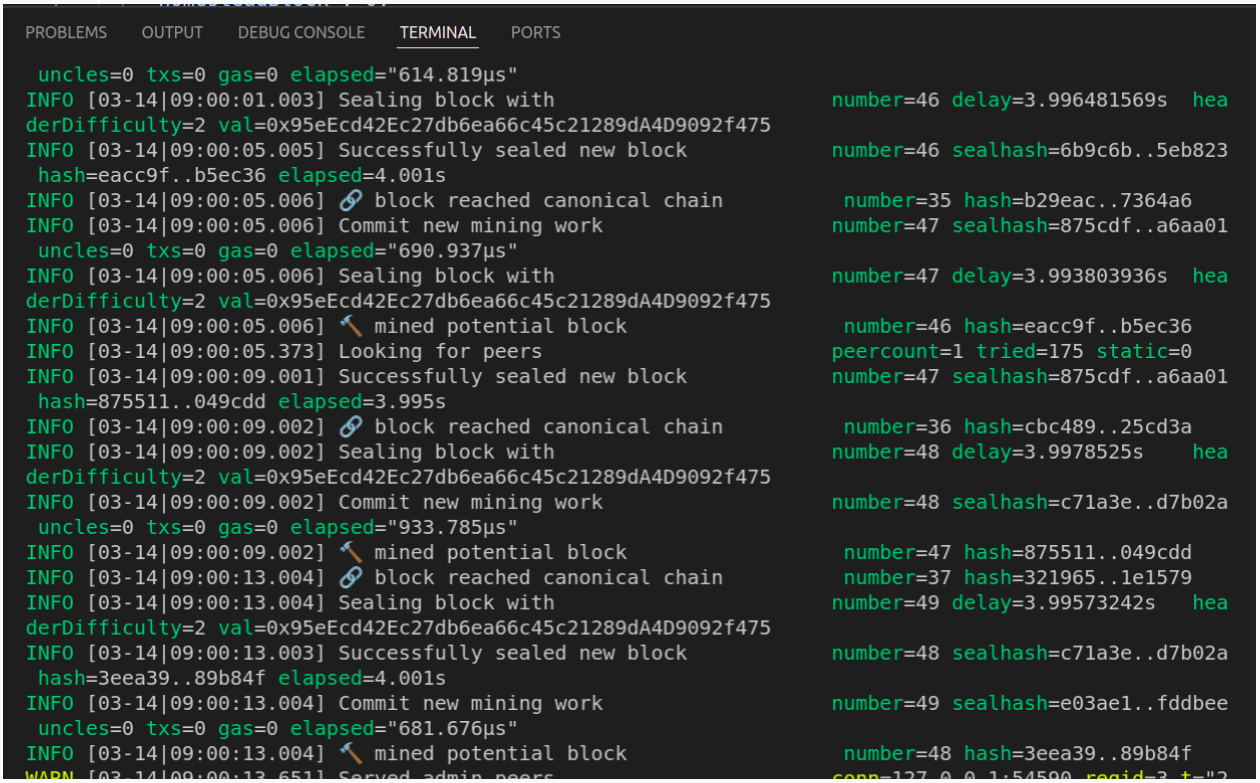
Staker's address will automatically get fetched from Metamask.

- Enter the amount more than 10000, name, description, website of staker, then click on submit button and confirm the transaction in Metamask popup to stake.

After successful staking, you will be able to see your account address in Validators Leaderboard as shown in the screenshot below:



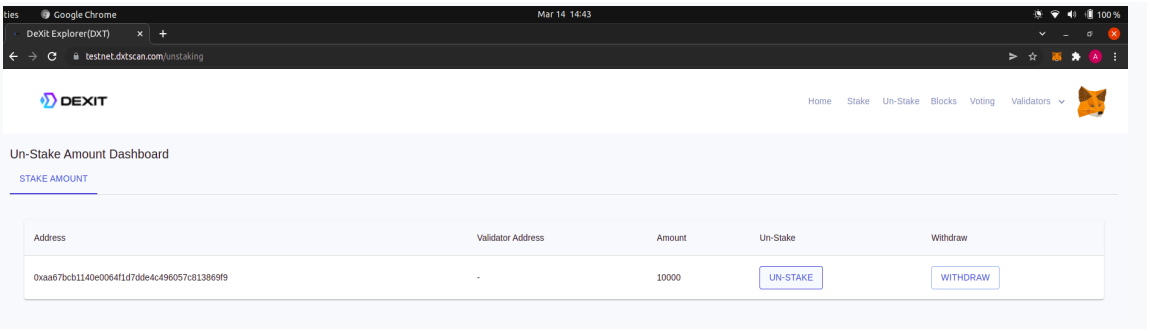
If your staked amount is in the top 21 of all validators, then your account address will also be visible in the Highest Validator Leaderboard and it will start signing blocks after touching the epoch period. If your account is in the list of highest validators then you will see output same as screenshot below.



Your account will start signing the blocks after passing the epoch block.

In the same way, you can unstake the DXTs by following link:

https://testnet.dxtscan.com/unstaking



- Select the account in metamask from which you want to unstake
- Click on the UNSTAKE button of the account you want to unstake
- After successful transaction of unstaking you can withdraw the amount to get it back in your account which can be done by 7 days after unstaking.
- To withdraw the amount you need to click on the WITHDRAW button.

Your node will stop signing the blocks and it will become an unauthorised validator after passing the epoch block.

In order to claim rewards, validators can claim their income by clicking on the CLAIM button.