

21CY712 – Blockchain Technology - 01

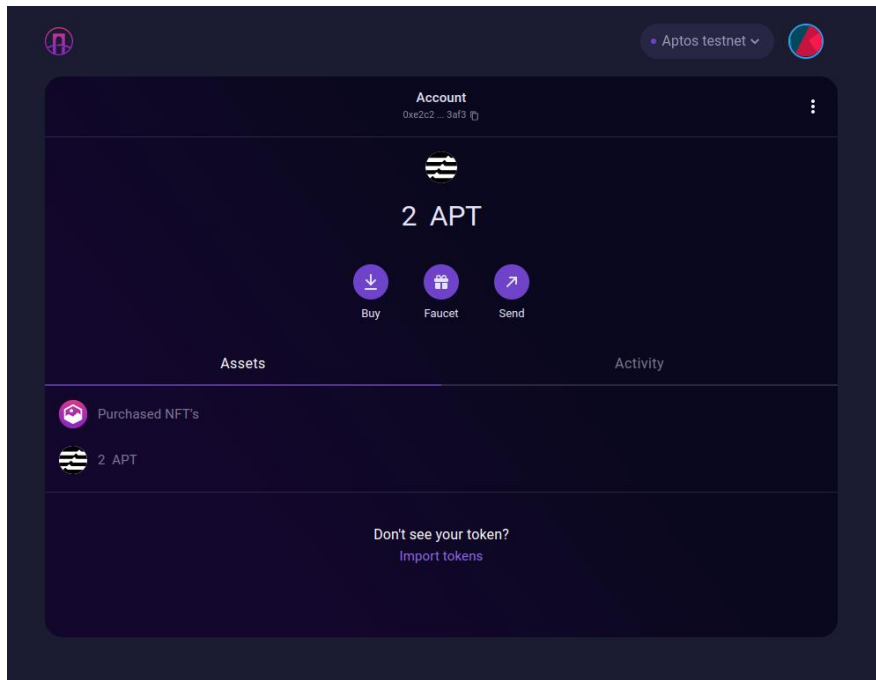
Assignment topic: Wallet Exploration

Roll No: CB.EN.P2CYS21019

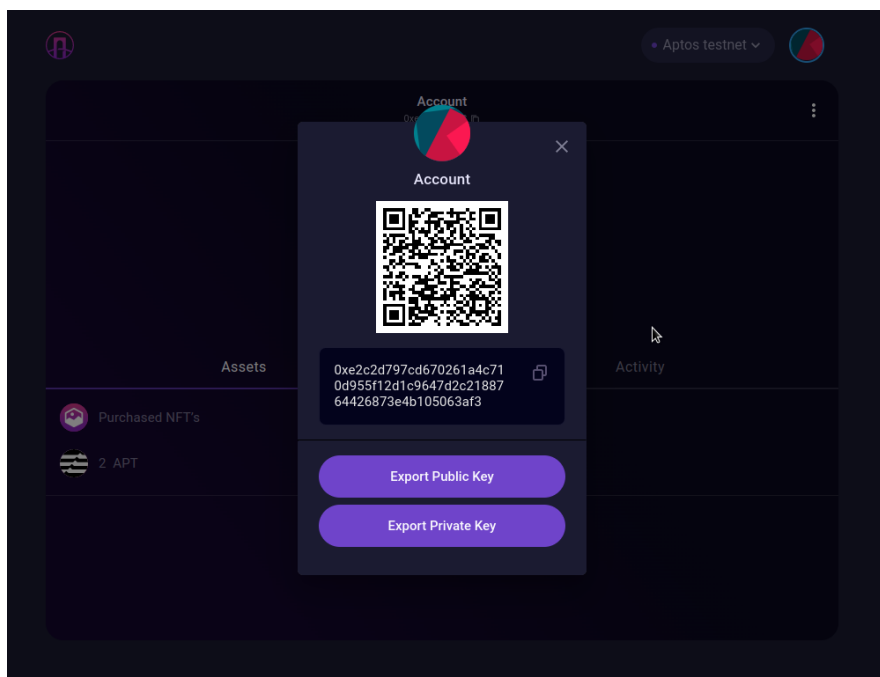
Date: 30-09-2022

Name: Prithvish N A

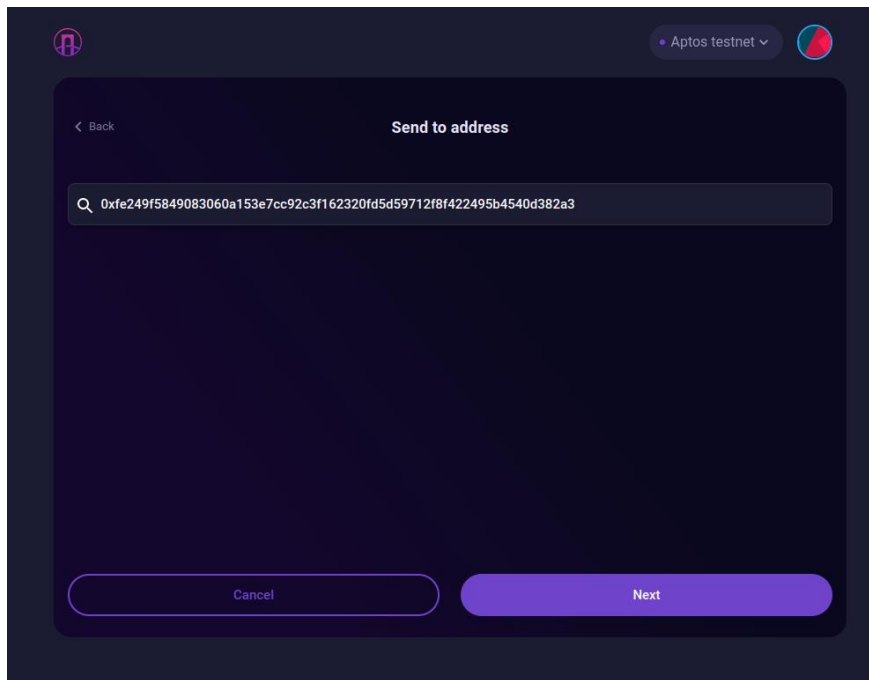
Web Extension: Pontem Aptos Wallet



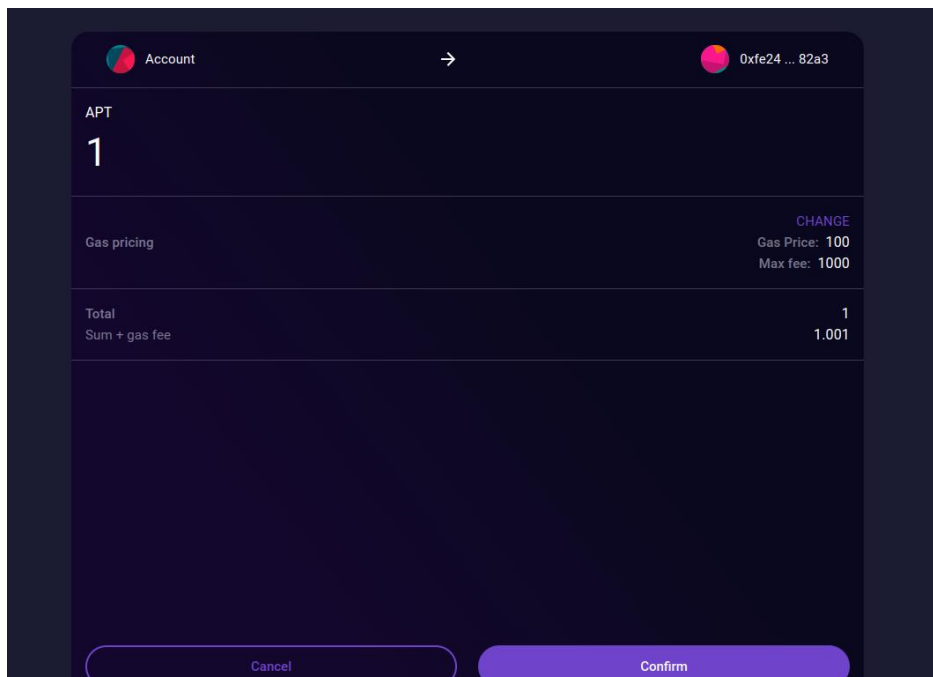
2APT testnet coins generated in Aptos testnet.



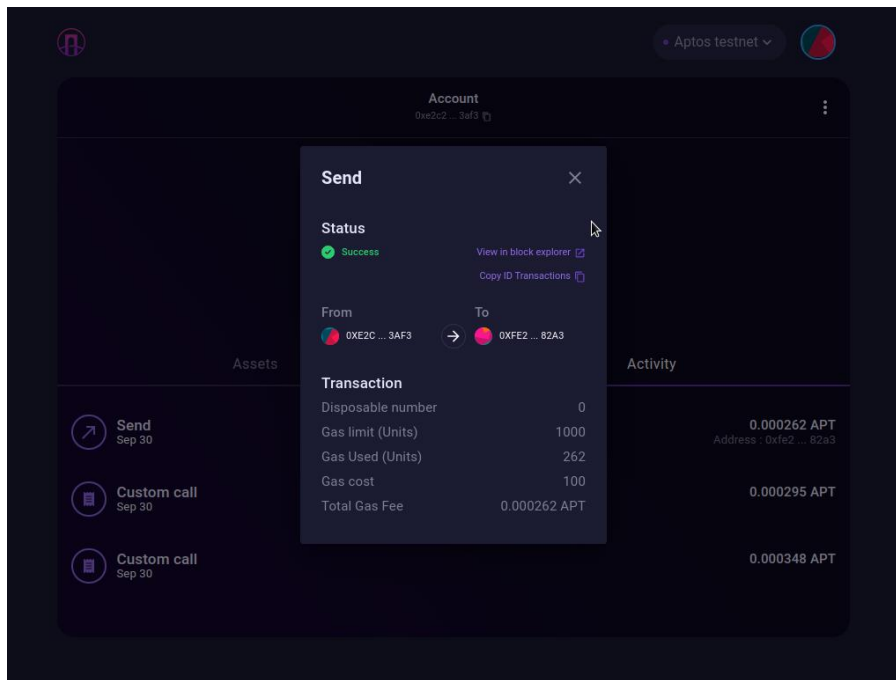
Wallet address of the account.



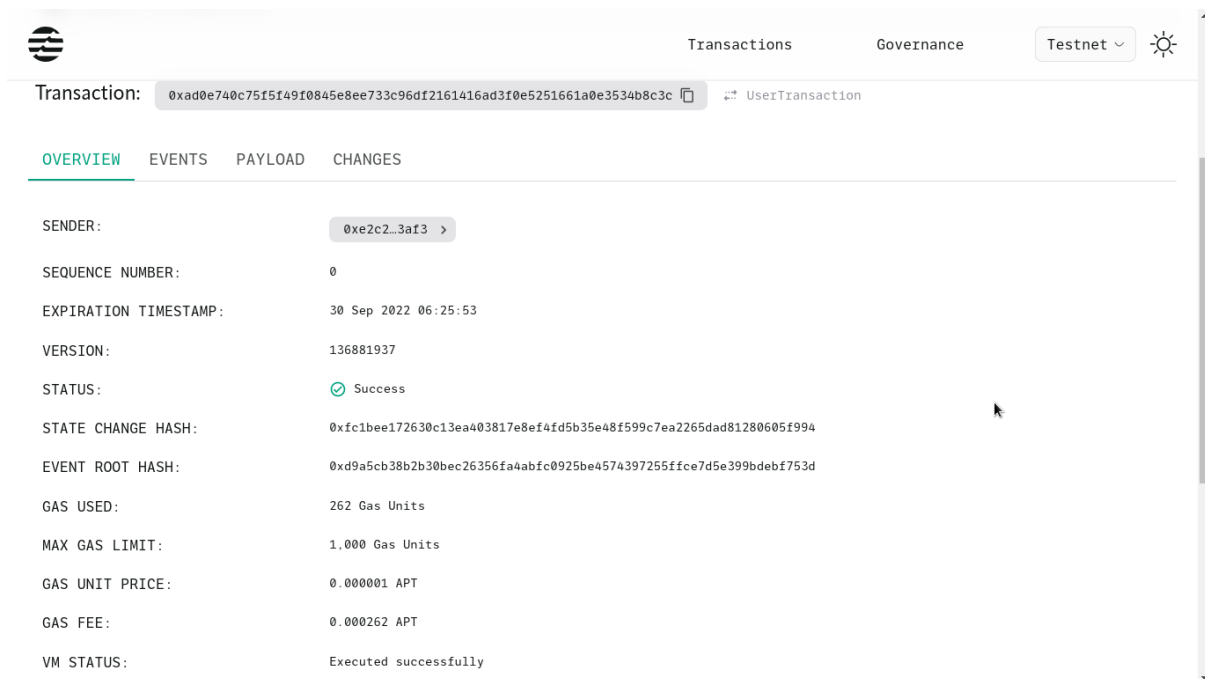
Address of another wallet to send the money.



1APT along with the Gas price of 0.001 is sent to the receiver.

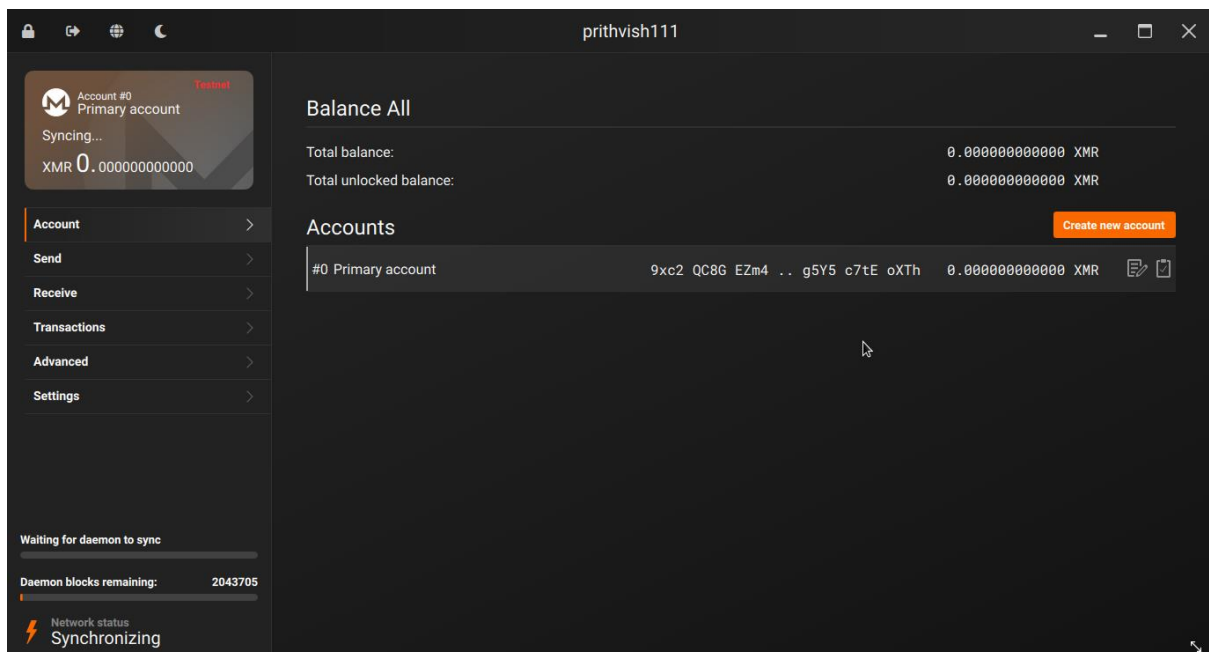


Amount transferred is successful acknowledgement.

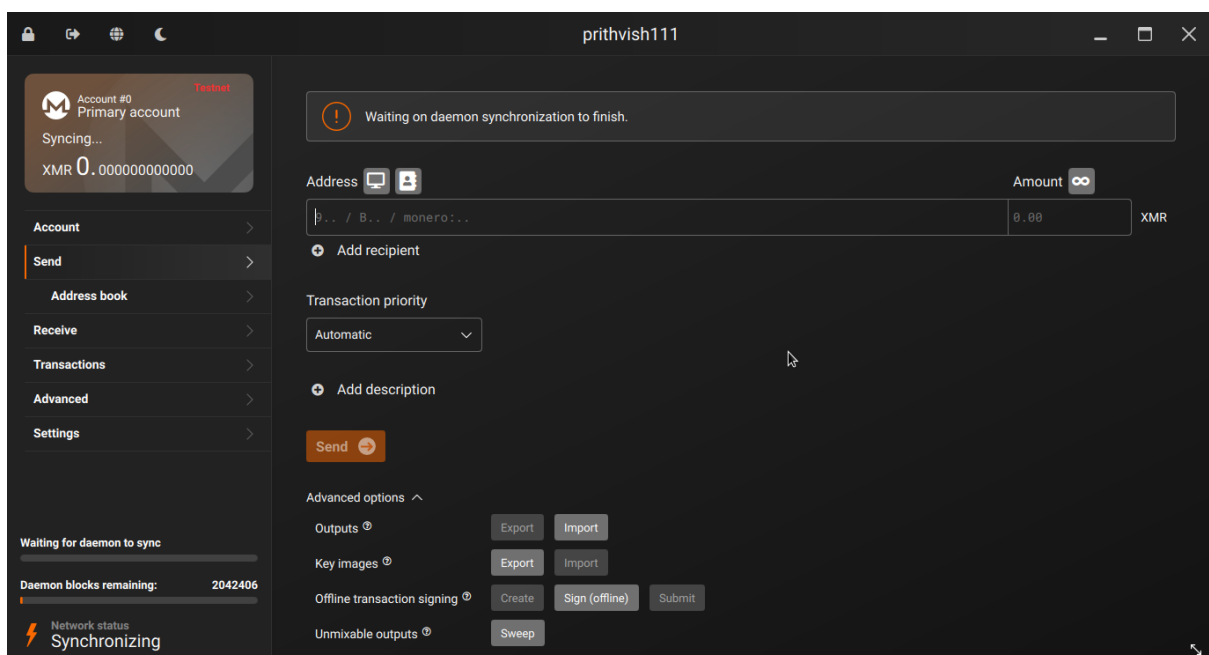


Transaction details in Aptos explorer.

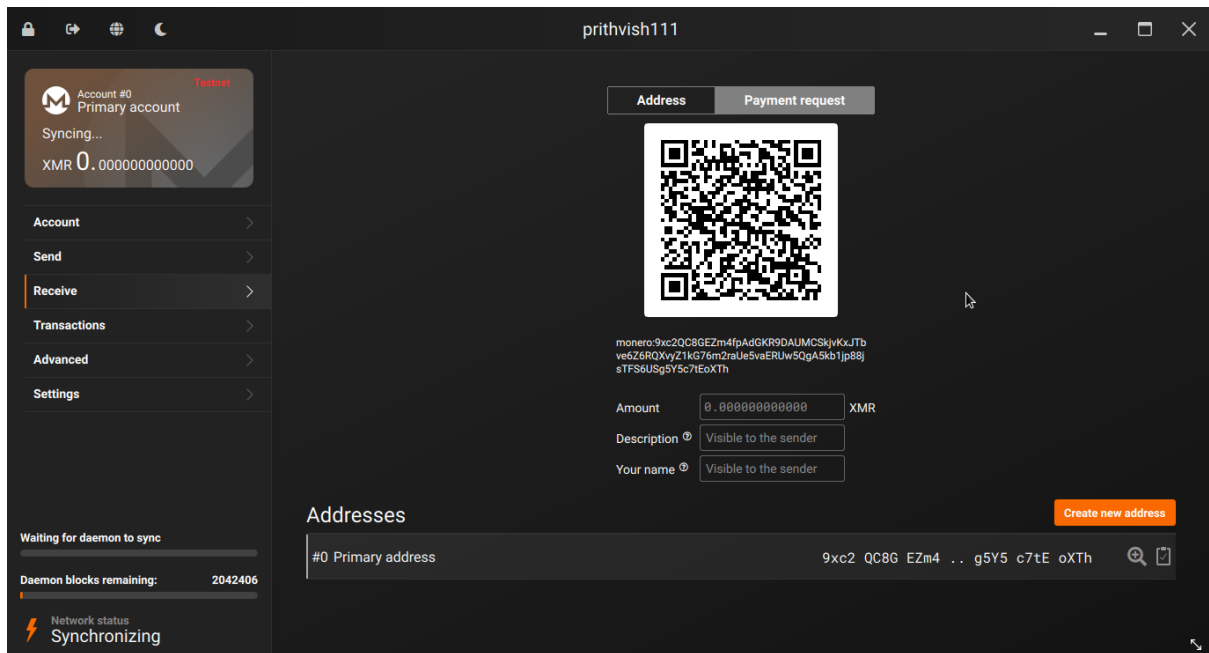
Desktop Wallet: Monero



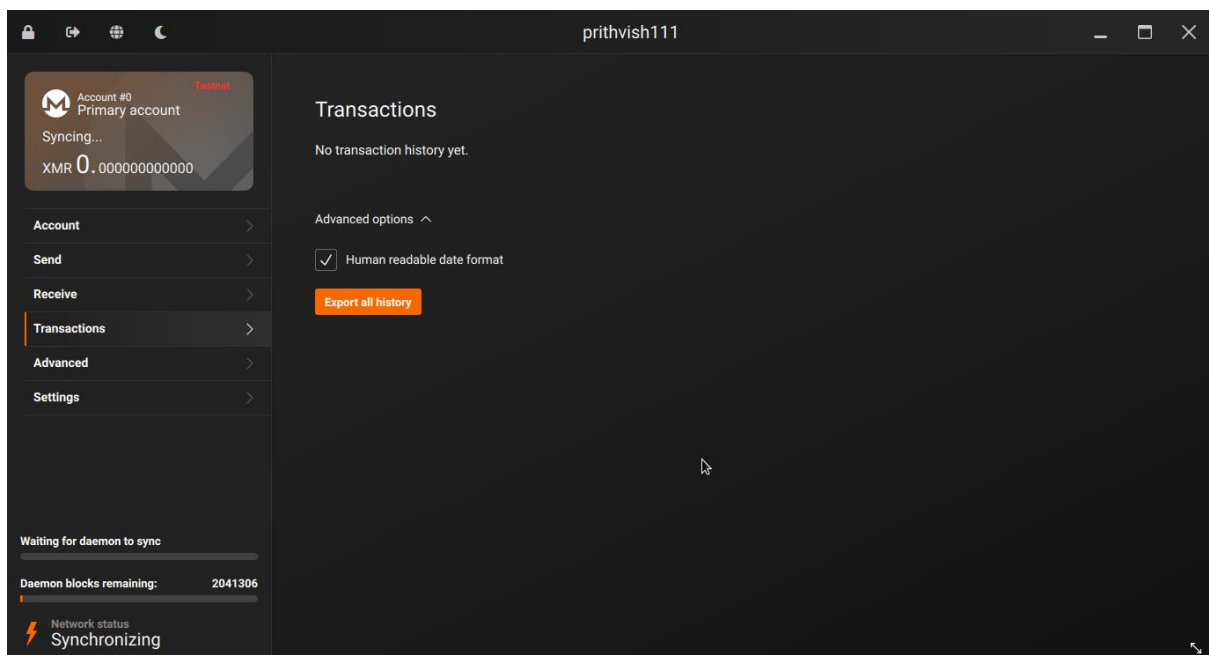
Monero GUI wallet uses a daemon (monerod), which is a program running in the background that synchronizes with the Monero network to scan for incoming transactions and to send new transactions. It gives different information like balance, account address of different accounts.



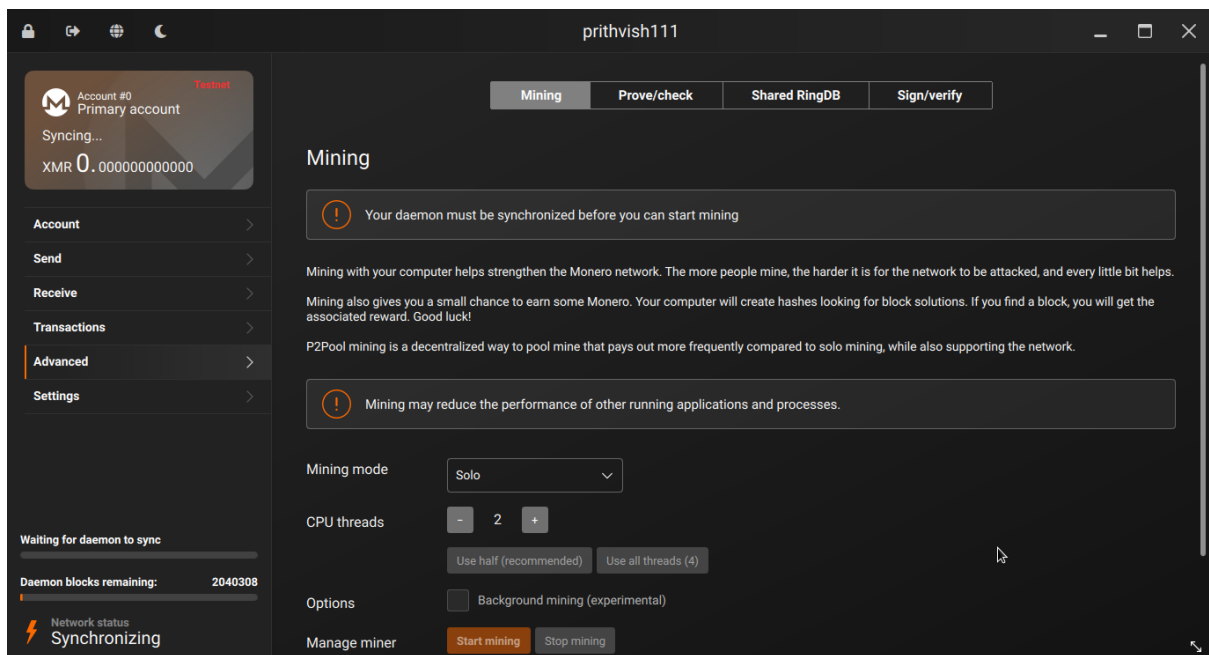
- Address: This is where you enter the destination address of the transaction.
- Amount: This is how much Monero (XMR) you want to send
- Transaction priority: This is the priority level your transaction will receive in the pool of transactions waiting to be confirmed
- Key images: This section allows you to export the key images from your cold wallet into a file, as well as to import this key images file into your view-only wallet.



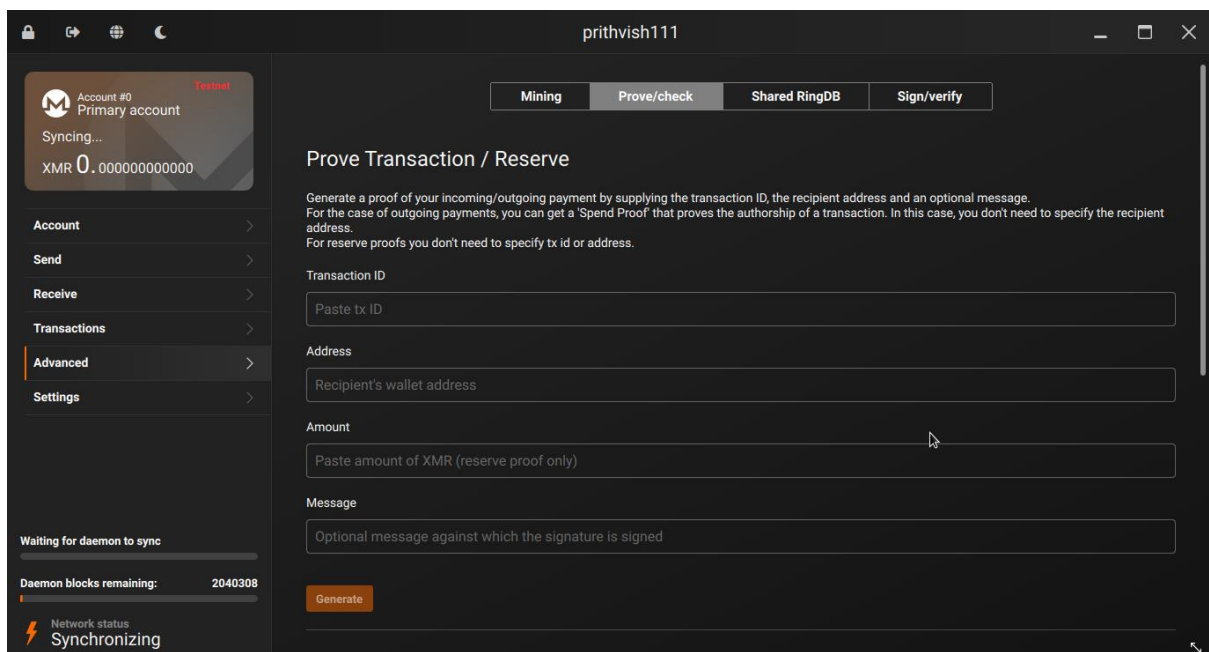
- **Addresses:** This list includes your wallet's primary address (starting with 4...) and all its sub addresses (starting with 8...).
- **Create new address:** This button allows you to create as many new subaddresses as you wish.
- **Set Label:** Click on this button to set this subaddress label.



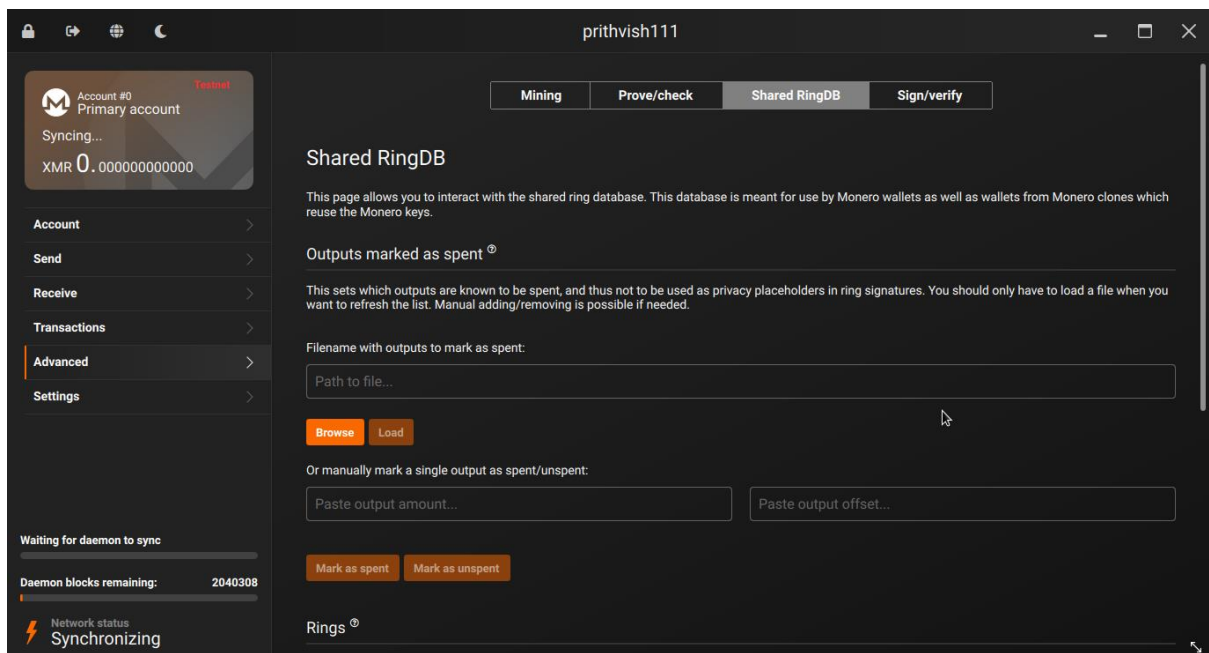
- **Search:** Quickly filter out transactions from the list searching by transaction ID, destination address, description, amount or block height.
- **Sort & Filter:** Here you can filter out transactions between specific dates, or sort them by block height, date or amount.
- **Transaction list:** This area displays the sent and received transactions of the currently selected account.



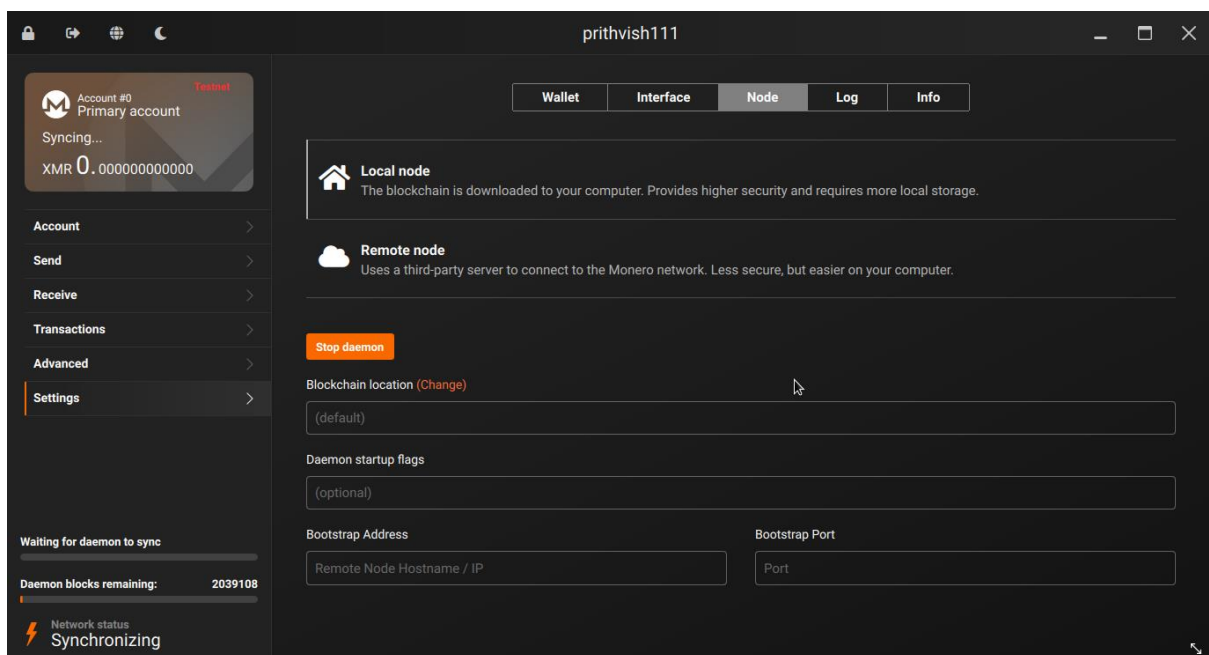
- CPU threads: Number of CPU threads to use for mining.
- threads auto-configuration: Set automatically the number of threads either to the recommended number, or to the max number.
- Background mining: Check this box to enable experimental background mining. This should allow you to use your computer normally while mining.
- Start mining: Start the miner.
- Stop mining: Stop the miner.
- Status: Indicates the mining state and hashrate.



The Prove/check tab provides tools for proving a payment or validating proof of a payment. This is necessary with Monero because these details are not available on the blockchain.

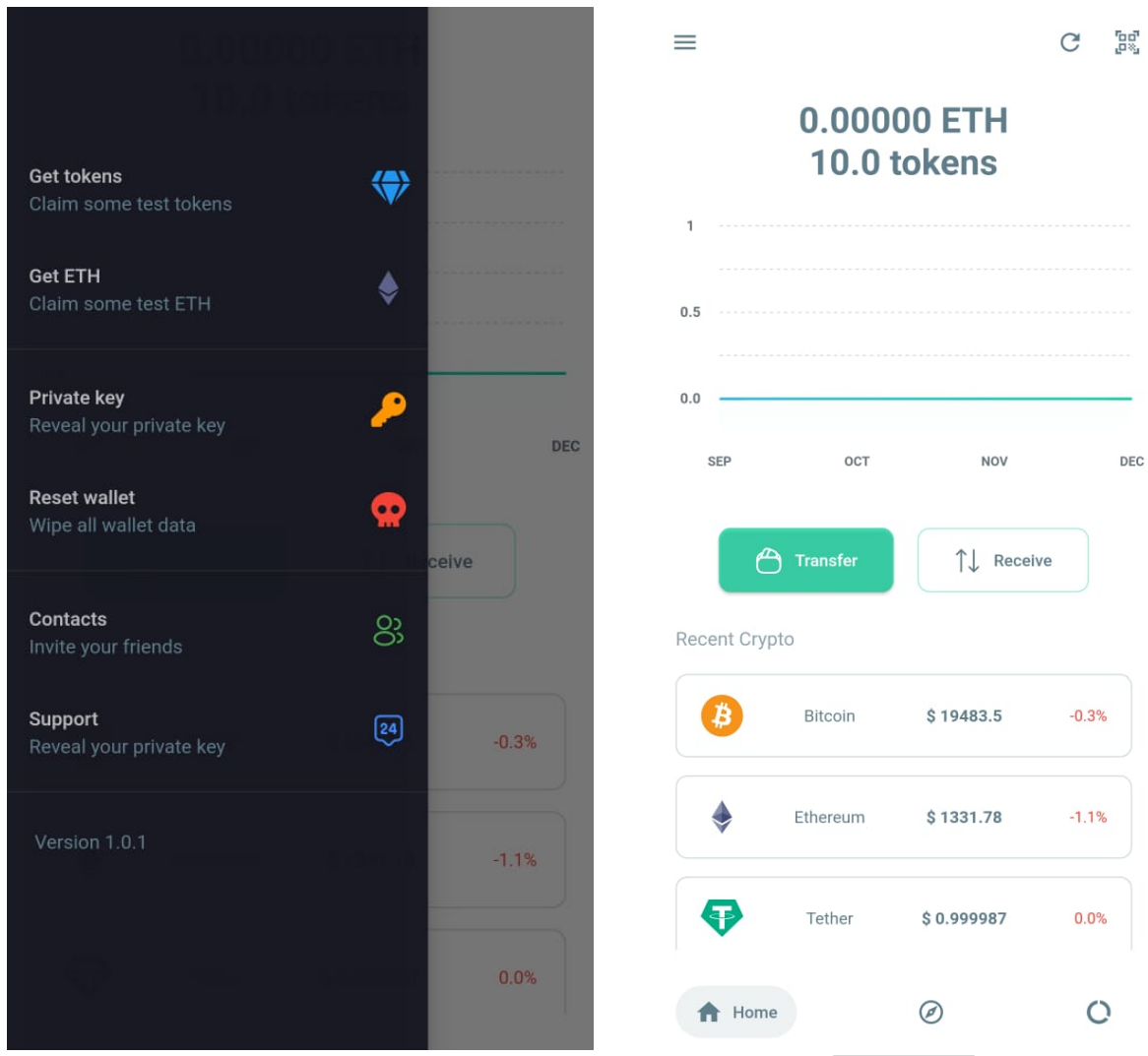


This is an advanced tool that can be used to improve the privacy of ring signatures. The outputs used in ring signatures can be adapted to mitigate the privacy loss when using a key-reusing fork or to avoid outputs



- Start/Stop Local Node: Depending on its current state, either start or stop the local node.
- Blockchain location: Manually enter a non-default path to the blockchain, or click change to choose a new path.
- Startup flags: When using a local node, this will be where you enter additional command line options.
- Bootstrap Address: Enter the hostname or IP address of the bootstrap remote node. See section Bootstrap nodes for a brief explanation of what a bootstrap node is.
- Bootstrap Port: Enter the port of the bootstrap remote node.

Mobile Application: Testnet Wallet



- Get tokens: This generates some token value (max 20) for the testing purpose.
- Get ETH: It adds faucet value to the current wallet.
- Private key: This option reveals private key to the public.
- Reset wallet: It will erase all the data stored in the wallet.
- Explorer is showing the conversion of most used cryptocurrency to the dollar currency.

Transfer Tokens - TGE

TGE Faucet

Transfer tokens

Network:

Ethereum (Ropsten)

Address:

0x91019867f2314d47761dc445abadf84

Amount (max 20):

10



I'm not a robot



Transfer

Please wait, it might take a while to confirm your transaction

Powered by clempe.dev

Transfer Tokens - TGE

Your receipt

```
{
  "blockHash": "0xc8b180b09c0",
  "blockNumber": 13069069,
  "contractAddress": null,
  "cumulativeGasUsed": 102744,
  "effectiveGasPrice": "0x3b9",
  "from": "0xb9655d050db8fb6c",
  "gasUsed": 51777,
  "logs": [
    {
      "address":
      "blockHash"
      "blockNumbe
      "data": "0x
      "logIndex":
      "removed":
      "topics": [
        "0x
        "0x
        "0x
      ],
      "transactio
      "transactio
      "id": "log_
    }
  ],
  "logsBloom": "0x000000000000",
  "status": true,
  "to": "0x5060b60cb8bd1c94b7",
  "transactionHash": "0x2fed5",
  "transactionIndex": 13,
  "type": "0x0"
}
```

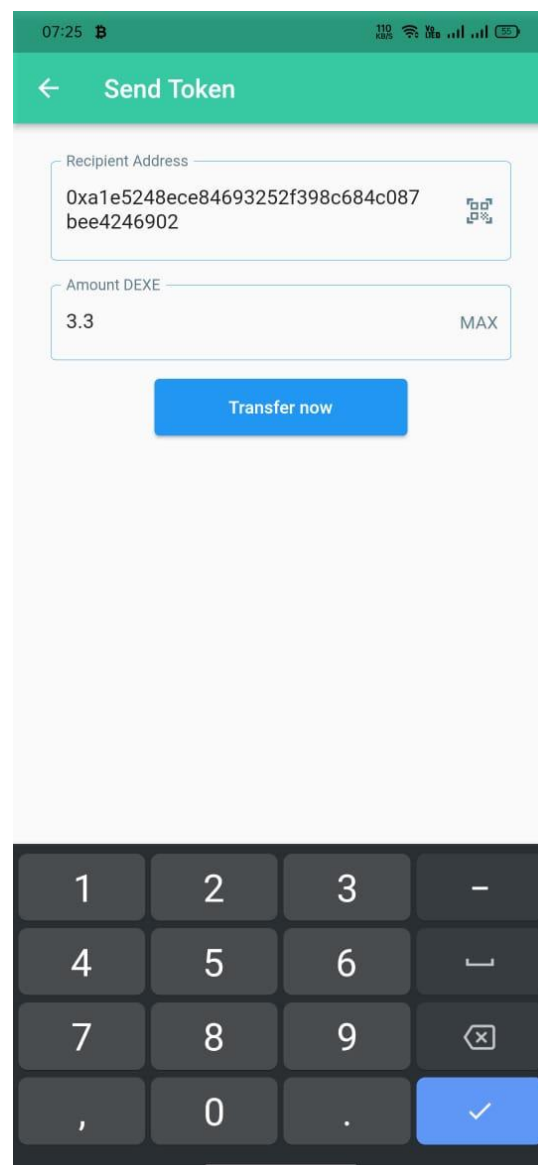
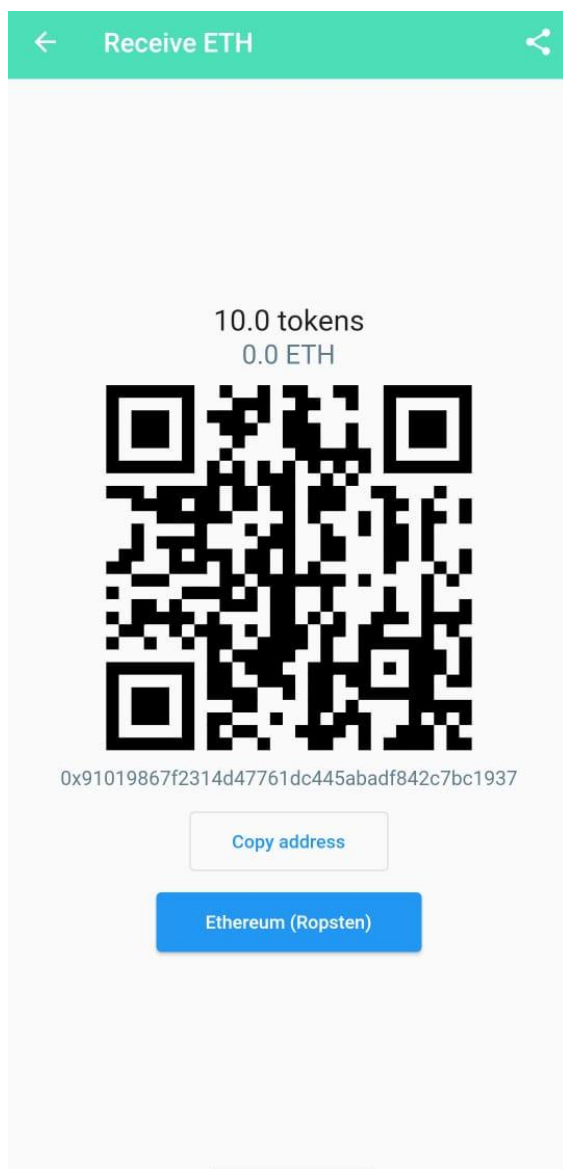
Powered by clempe.dev

- 10 tokens are requested to the respected account wallet from the Ropsten network, It generated the receipt.
- The code generated as below:

Your receipt


```
{
  "blockHash":
"0x06c2f86548cb676a9c76fcc858b896c2815e61710bfd8881924af3c83d6
f9b40",
  "blockNumber": 13070451,
  "contractAddress": null,
  "cumulativeGasUsed": 5558242,
  "effectiveGasPrice": "0x3b9aca00",
  "from": "0xb9655d050db8fb6c6b034885fbc144c253b6ceaf",
  "gasUsed": 34677,
  "logs": [
    {
```

[illegible]



- User can send the amount by entering the recipient wallet address and the amount including the gas fees.
- Similarly, user can receive amount by giving wallet address or QR code for the sender.

Ropsten Ethereum (rETH) Faucet


 Dimensions Network


Ropsten Ethereum (rETH) Faucet

Receive 1 rETH per request

Enter Your Ropsten Address

0x91019867f2314d47761dc445abadf842c7bc1f

 I am human


hCaptcha
Privacy - Terms

Send Ropsten ETH

Node under maintenance. Tokens will be sent when Node is ready. Gas Limit 400k

Faucet queue is too long, please try again later.

Pending

- There is an option to request faucet (ETH) but due to long queue, there will be a delay in transferring amount from the node to the test wallet.
- The request queue is processing from May 26th 2022, so it's a very long queue.