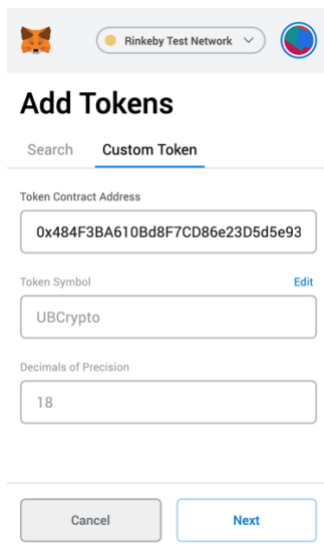


The 2\_deploy\_contracts.js has code to deploy the contracts.

Follow below steps to deploy and test the contracts.

- 1) Deploy dappToken contract first with constructor parameters For eg: name: UBCrypto, symbol: UBCrypto, totalSupply: 25000
- 2) Once the first contract is created , goto metamask and click add token -> custom token then paste token contract address, you should see something like below



**Add Tokens**

Search Custom Token

Token Contract Address

0x484F3BA610Bd8F7CD86e23D5d5e93

Token Symbol Edit

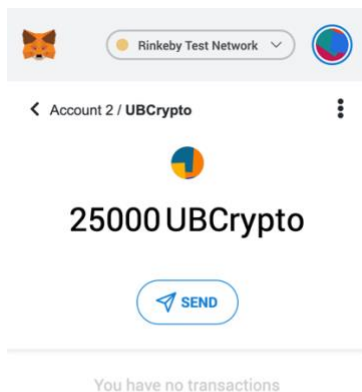
UBCrypto

Decimals of Precision

18

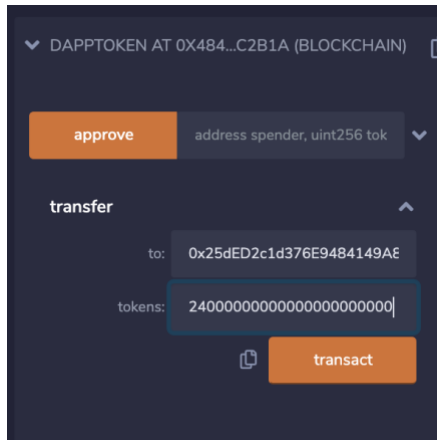
Cancel Next

click next -> add Tokens, it will appear like below

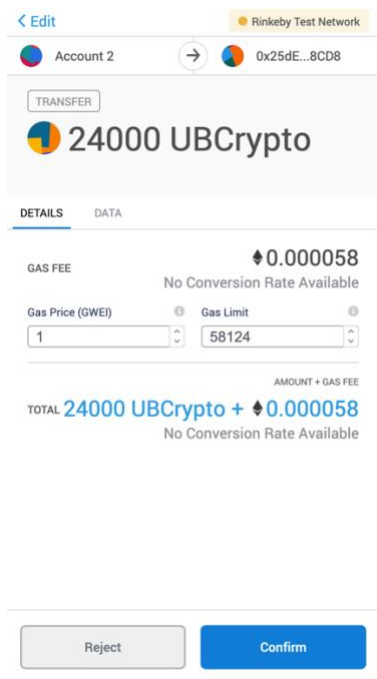


**Initially the full total supply is added to creators wallet**

- 3) Once the token is deployed, use that token contract address to deploy crowdSale contract with constructor parameters For eg: endTime: 3600(in seconds , here 1 hr),exchange\_rate: 500, tokenAddress: address of the first contract(token contract that you deployed)
- 4) Transfer tokens from your wallet to just created crowd sale contract address, so people can buy tokens from that crowd sale contract. Goto token contract deployment and transfer to crowd sale contract address 24000 tokens which means you have to put the value  $24000 * 10^{18}$  because our tokens has 18 decimals like below



Then its gonna show prompt like below,



Confirm it , so 24000 UBCrypto goes to CrowdSale Contract address. Its your choice how much tokens you want to sell.

- 5) Now enable the crowd sale using enableCrowdSale() function, pass true to it so crowdSale of tokens is enabled.
- 6) Now switch to a different account and as shown previously use the token contract address to add UBCrypto to your account. Your balance will zero.
- 7) Now fill in **value** like below,(important this is where you send ethers to buy tokens)

0xB6d...f3aF1 (5.67669803)

GAS LIMIT

3000000

VALUE

0.1

ether

CONTRACT

Crowdsale - browser/crowdSale.sol

Deploy

"3600","500","0x484F3BA6"

☐ Publish to IPFS

OR

At Address

Load contract from Address

Transactions recorded 4

All transactions (deployed contracts and function executions) in this environment can be saved and replayed in another environment. e.g Transactions created in Javascript VM can be replayed in the Injected Web3.

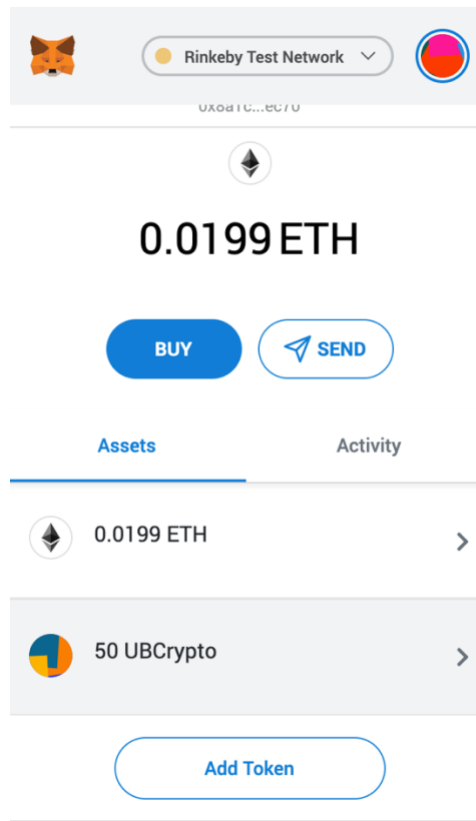
Deployed Contracts

DAPPTOKEN AT 0X484...C2B1A (BLOCKCHAIN)

CROWDSALE AT 0X25D...88CD8 (BLOCKCHAIN)

buyTokens

If you see I am actually sending 0.1 ether, that is I am sending 0.1 ether in msg.value parameter. According to our exchange rate which we have set at 500, 1 ETH = 500 tokens, since you are sending 0.1 ether you will get back 50 UBCrypto Tokens. Now click on buyTokens to see the magic that you actually bought 50 UBCrypto Tokens. You can see below,



This token is like any other token (like bitcoin, Ethereum etc.), you can send it/ receive it to/from any address.

- 8) You can update the exchange rate at any time you want.
- 9) You can update the crowd sale end time if you want to extend the crowd sale. Initially we send according to this document 3600 which means 3600 seconds or 1 hour. You can call the method `updateCrowdSaleEndTime` with values in seconds which means the crowd sale will end at now + latestValue(in secs).
- 10) Also do notice that as and when people buy tokens from `crowdSaleContract`, the ethers they send is actually sent to the creator's wallet, you can notice that in the creators wallet (you can see increase in amount of ethers). You basically sold UBCrypto and got back ethers in return voila funds are being raised. Now its our job to market the token.