Program Setup and Launch guide

Background

This is a group project. The current repository is finalized based on project **22CS016** only and may/does not reflect the final contribution for **22CS015**.

Prerequisites

 The setup OS should be Windows. The following guidelines were only tested on Windows.

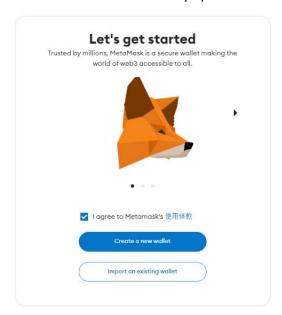
Step 1 - repository settings (do once)

- 1. Install NPM (can be downloaded here) (version select 18.x.x).
 - o Upon installation, make sure the command 'npm' is responsive.

- 2. CD to app folder, execute CLI command "npm i".
- 3. CD to smart_contract folder, execute CLI command "npm i".

Step 2 - wallet settings (do once)

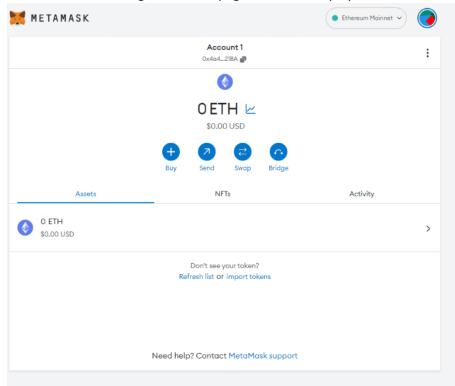
- Important: Keep the Blockchain's local node opened when setting up wallet network.
 - CD to smart_contract folder, run localnode.bat.
- Install MetaMask for Chrome (can be downloaded here).
- Upon installation, set up Blockchain wallet.
 - o A page like this should be automatically opened.



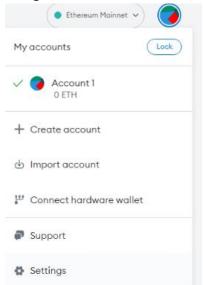
- Agree the terms then click "Import an existing wallet". You could also create your own wallet.
- o On the next page, click "I Agree"
- Input the following secret recovery phrase:
 - limit error book doll distance lecture traffic mad brick wire essence mean
 - (Directly copy the whole sentence then paste to the first input box)
- o Click the confirm button.
- The page should be shown as follows:



- o Set the new password to Cityufyp2022
 - Not recommended to change any new passwords.
- o Click the import button.
- o After some confirmation dialogs, initialized page should be displayed as follows:



o Open "settings".



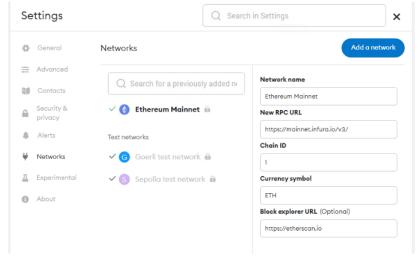
o In the Advanced tab, turn on the following feature:

Show test networks

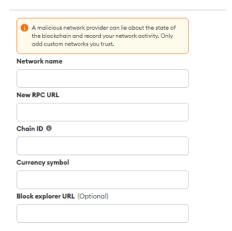
Select this to show test networks in network list



○ In the Networks tab, click "Add a network" → "Add a network manually".



Networks > Add a network > Add a network manually



o Input the network information as follows:

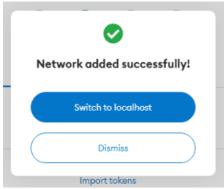
Network name: localhost

New RPC URL: http://localhost:8545

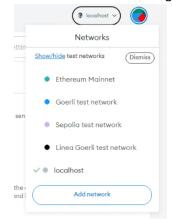
Chain ID: 31337

ETH

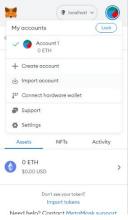
- Save the information.
- o If there is a dialog box:



- Click "Switch to localhost"
- o Else, switch to localhost host using the network tab on the top right corner.

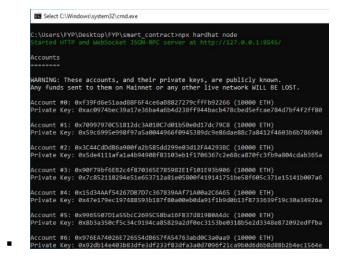


- Import local accounts from localnode.bat.

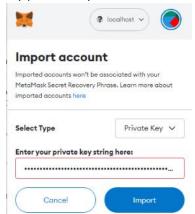


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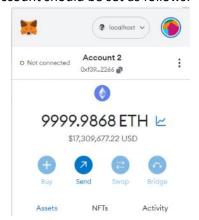
- \circ Right click the account profile \rightarrow "Import account"
- o Open the "localnode.bat", following information should be displayed:



Import any private key to the MetaMask window:

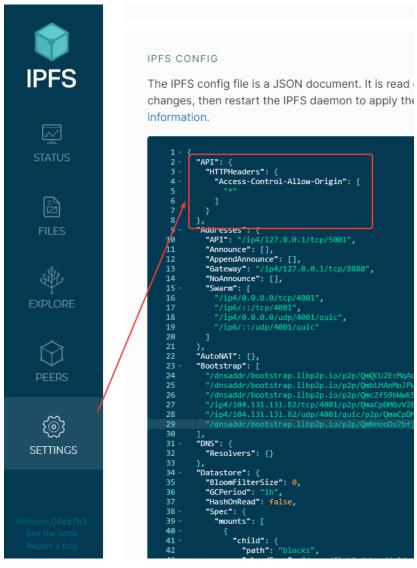


O New account should be set as follows:



Step 3 (do once)

- Install IPFS desktop (can be downloaded <u>here</u>, named "IPFS-Desktop-Setup-{version}.exe").
- After launching the program, go the "Settings" tab then configure the following Json file as follows:



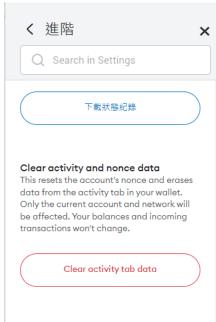
С

Step 4 (do every time launch)

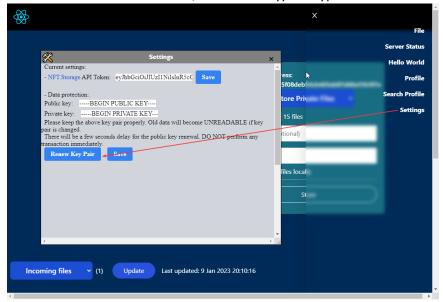
- App folder: click run.bat.
- Smart_contract folder: click localnode.bat first. When the account list is shown, click deploy.bat.
- Start IPFS desktop.

Step 5 (do every time launch)

- Go to localhost:5173
- For each imported MetaMask account: profile icon → Settings → Advanced → Clear activity tab data



- Connect to a MetaMask wallet account, renew the crypto keypair.



At this time, the system should be working.