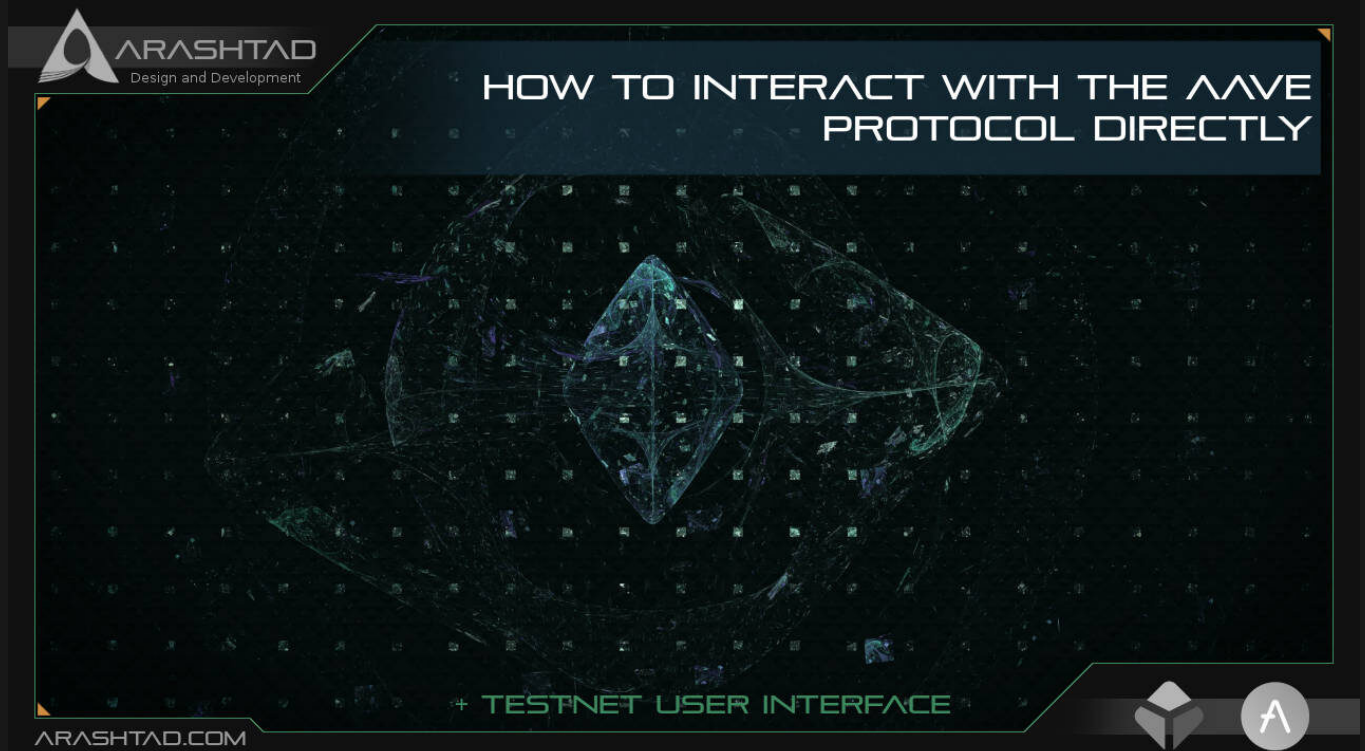


How to Interact with the Aave Protocol Directly + Testnet User Interface

No comments



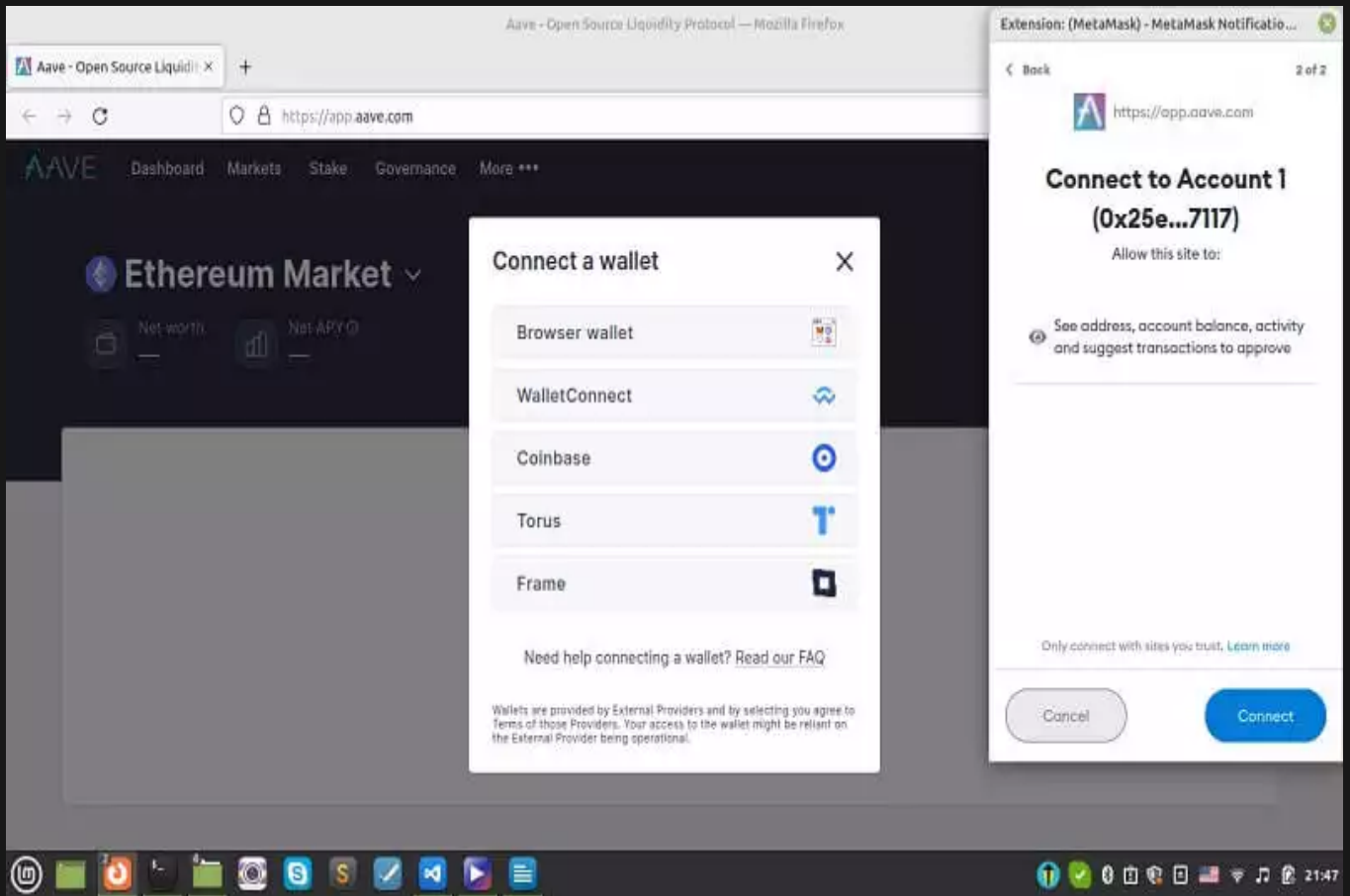
*In this tutorial, regarding the Aave protocol, we are going to connect **our Metamask** to the Aave website to be able to interact with the Aave protocol directly. Then, we will switch to the Testnet. We will also get some Kovan ETH from the Chainlink Kovan faucet. Using the test ETH we have got, we will deposit it, withdraw Dai, and then finally pay back all the funds.*

What Is Aave Protocol?

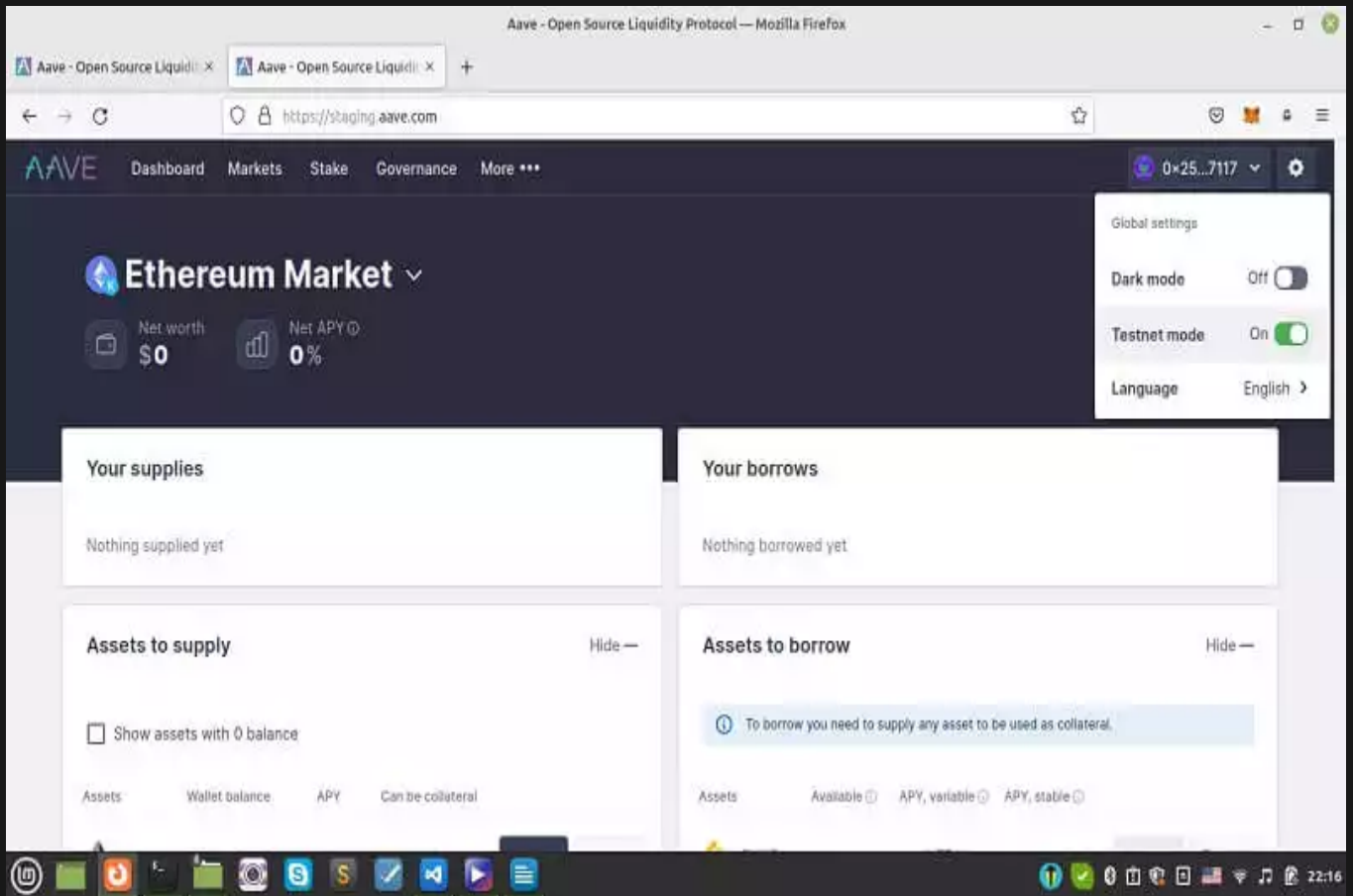
Aave is a decentralized finance (DeFi) protocol that allows us to borrow and lend our crypto assets. It provides tools to deposit our money and get some yields or borrow some money and repay whenever we want with a certain APY. Now, we are going to first interact manually with the user interface at the [Aave web app](#) and then get into the code interaction with the Aave protocol.

Connecting Metamask to Aave:

First of all, you should connect your Metamask wallet to the Aave web app.

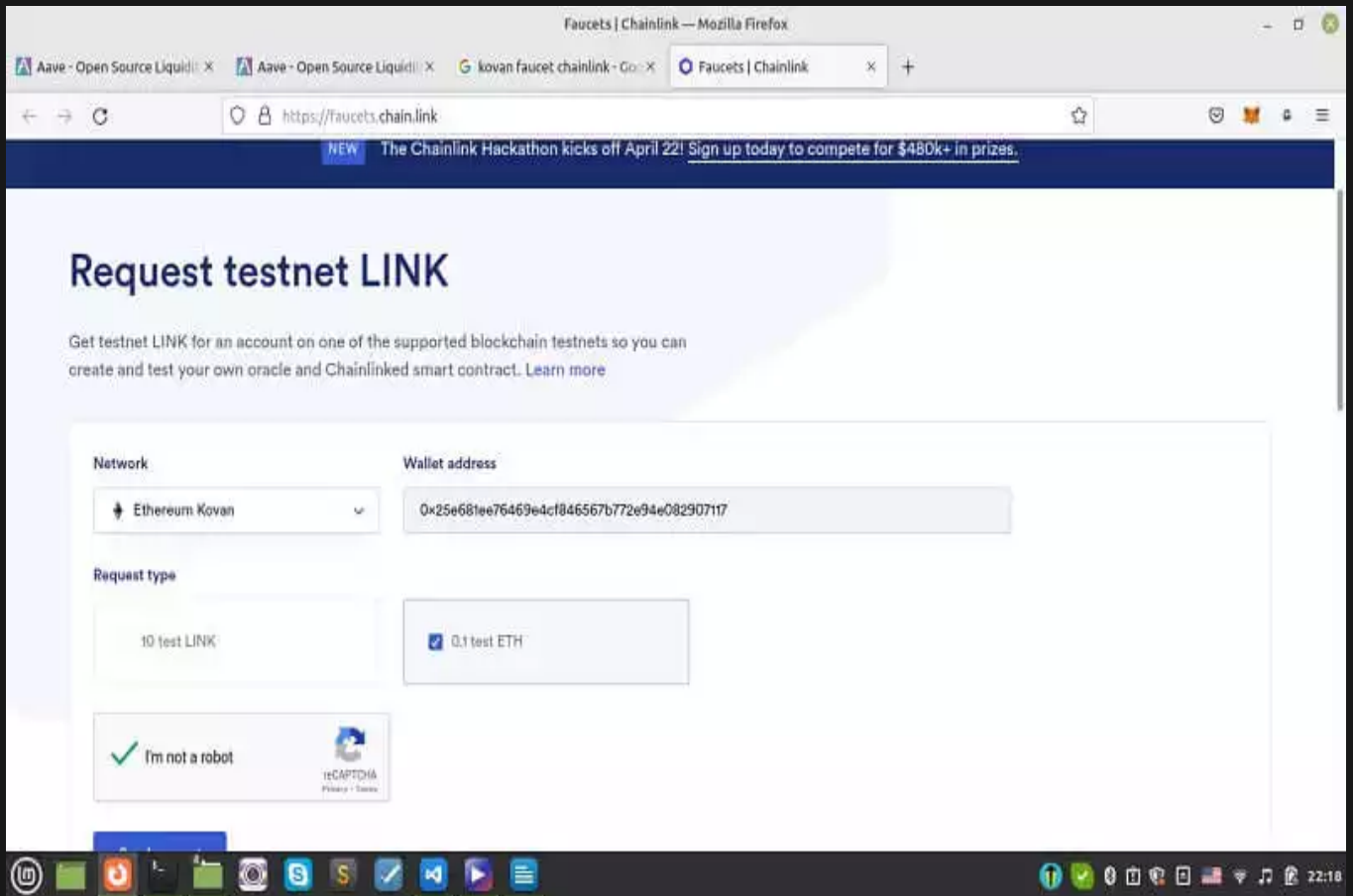


Then from the top right settings button, switch to Testnet mode



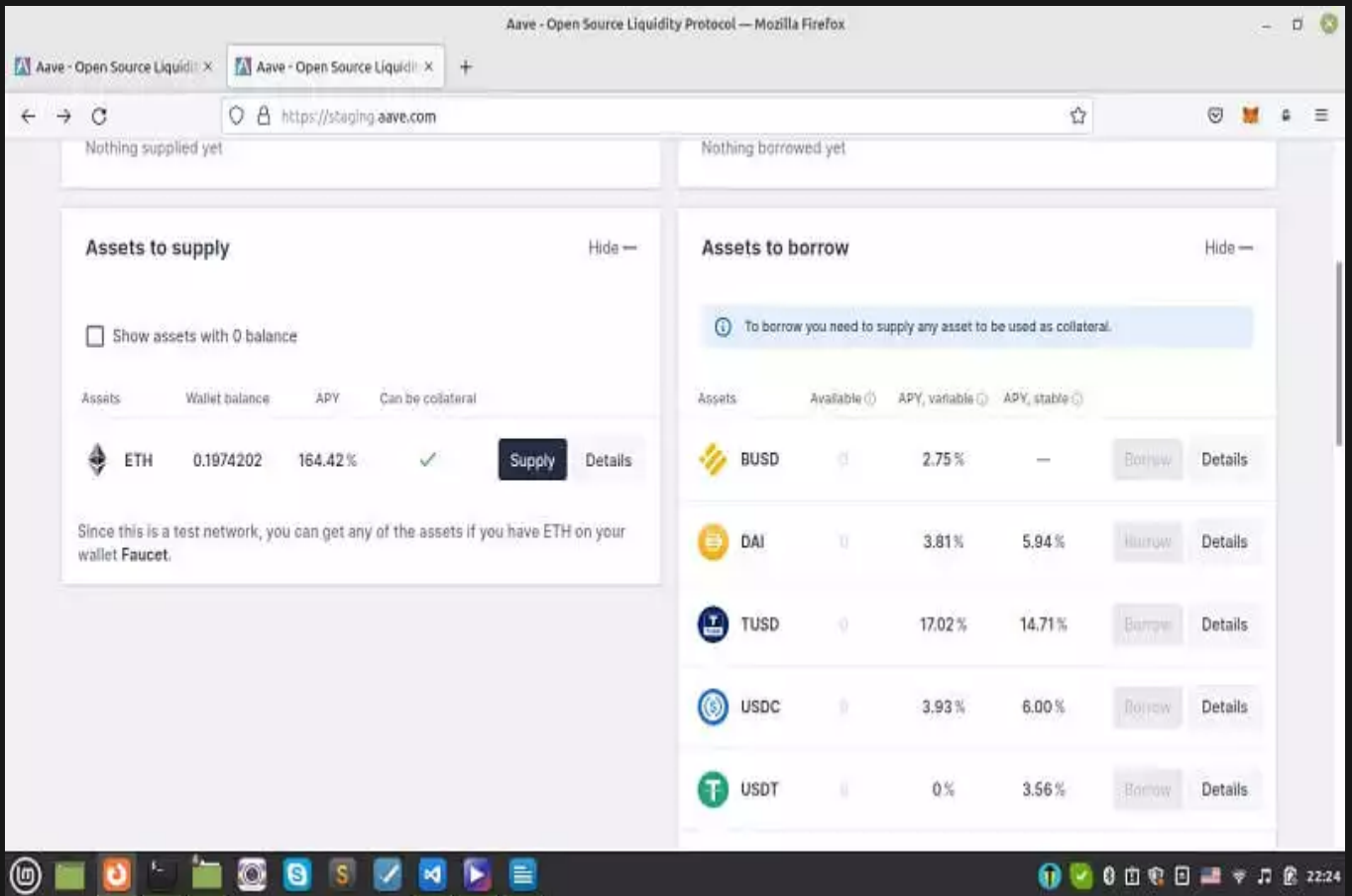
Getting Kovan ETH:

Also, don't forget to get some Kovan ETH from [this link](#):

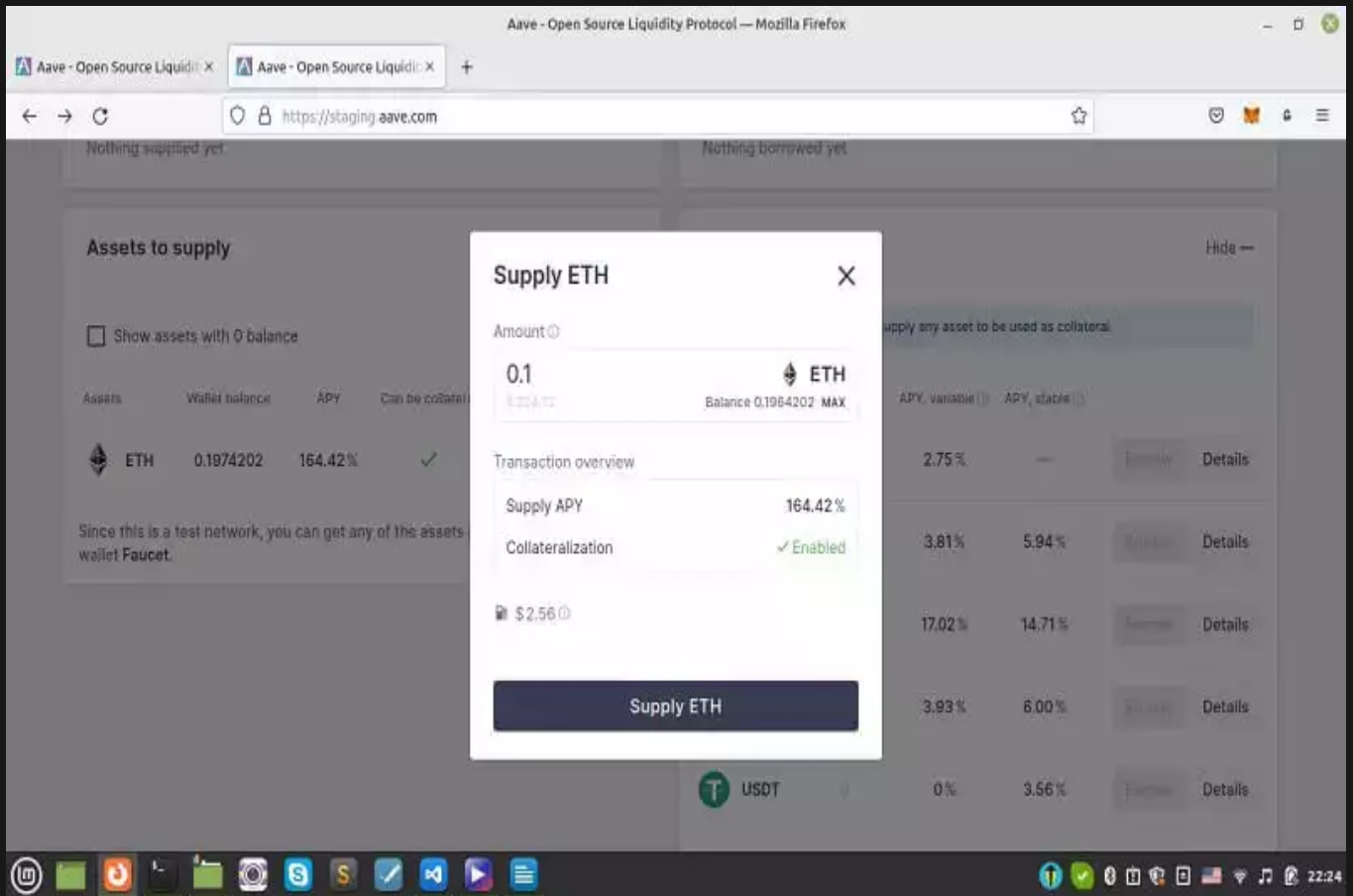


Interacting with Aave Protocol Directly

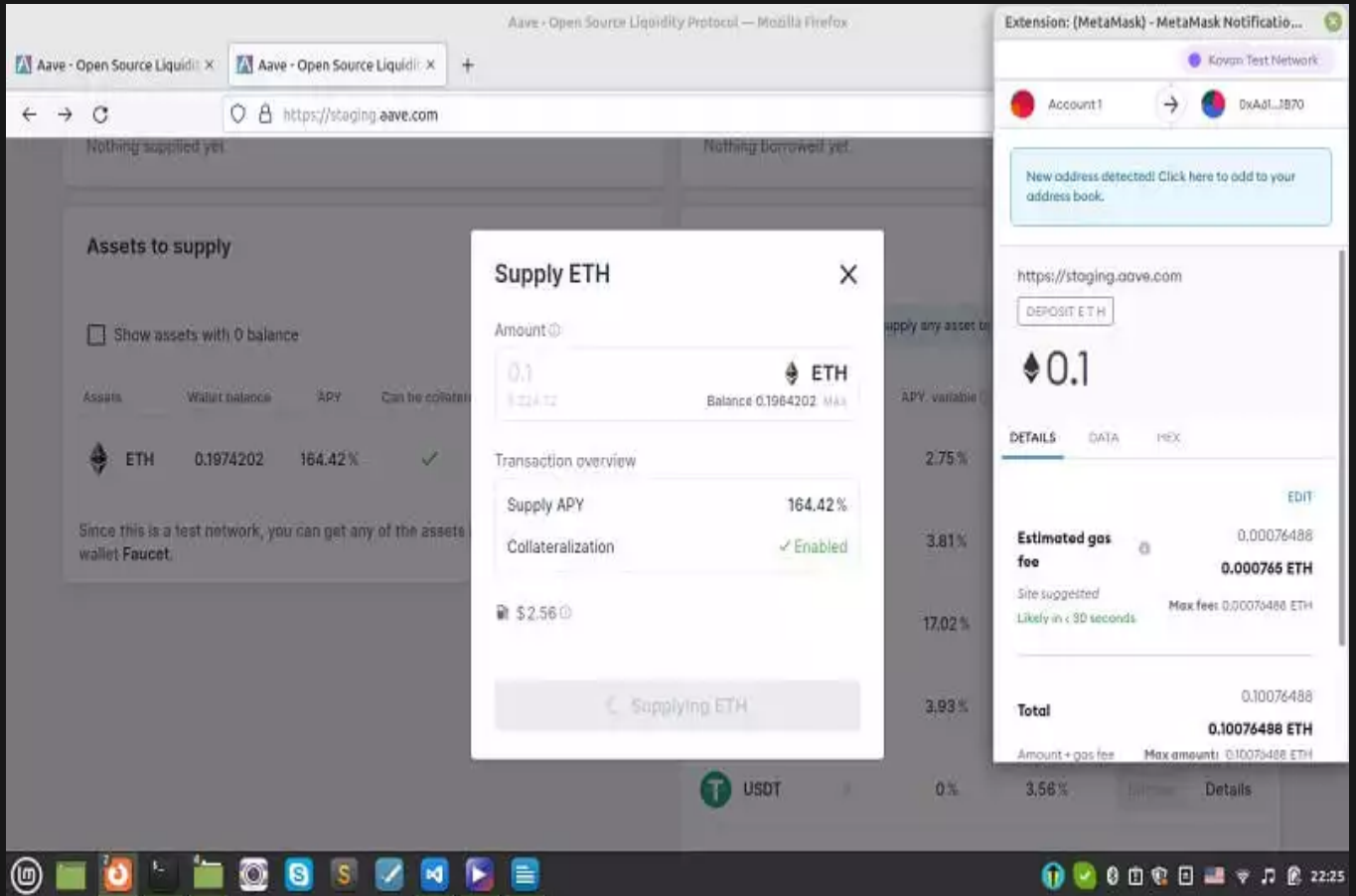
Once your wallet is connected and you have got some kovan ETH, you will be able to see that your available asset on kovan test network is displayed on the webpage:



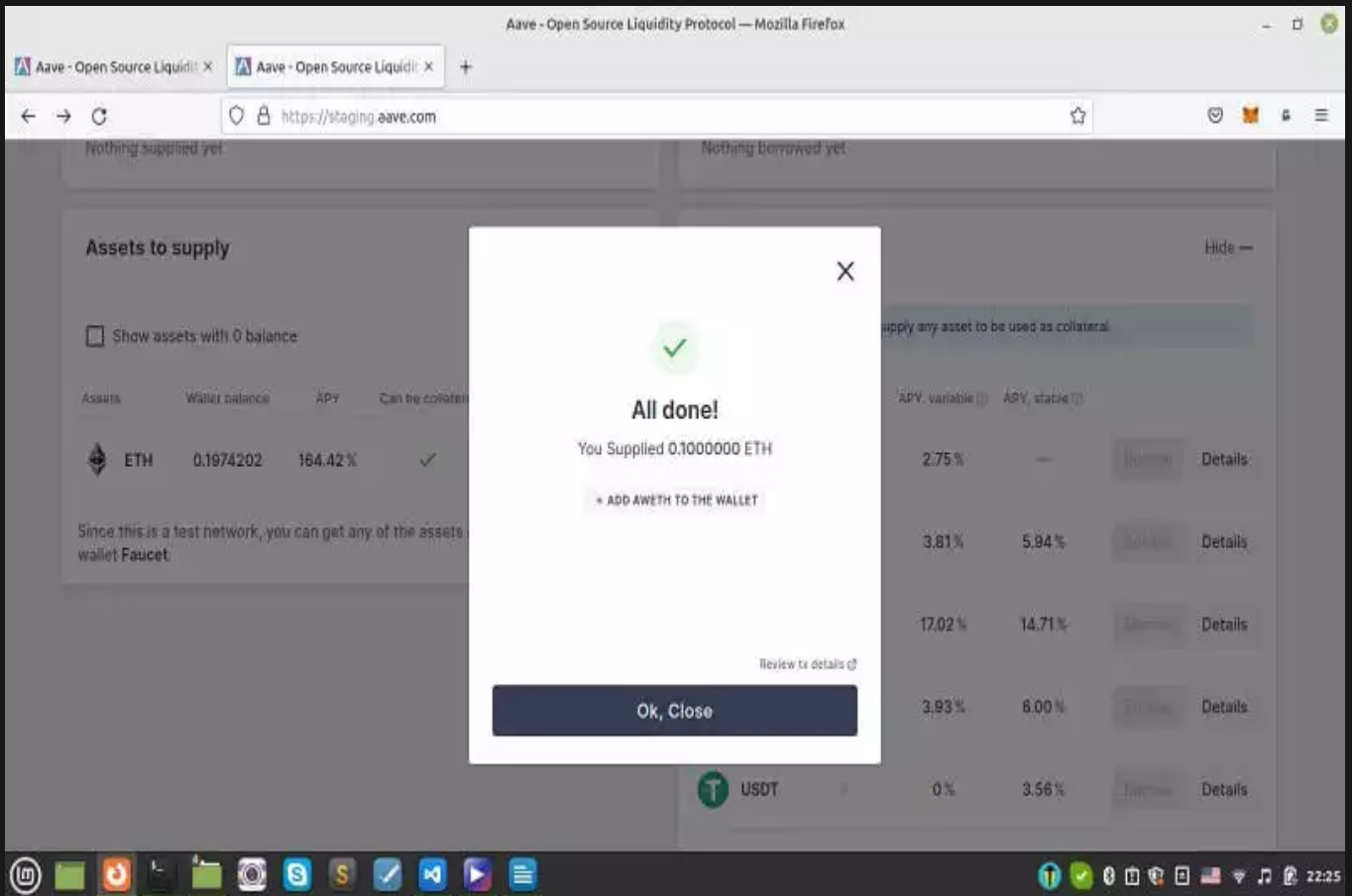
Now, in order to deposit or supply some ETH, Click supply and choose the amount of ETH you want to supply or lend. And then click Supply ETH.



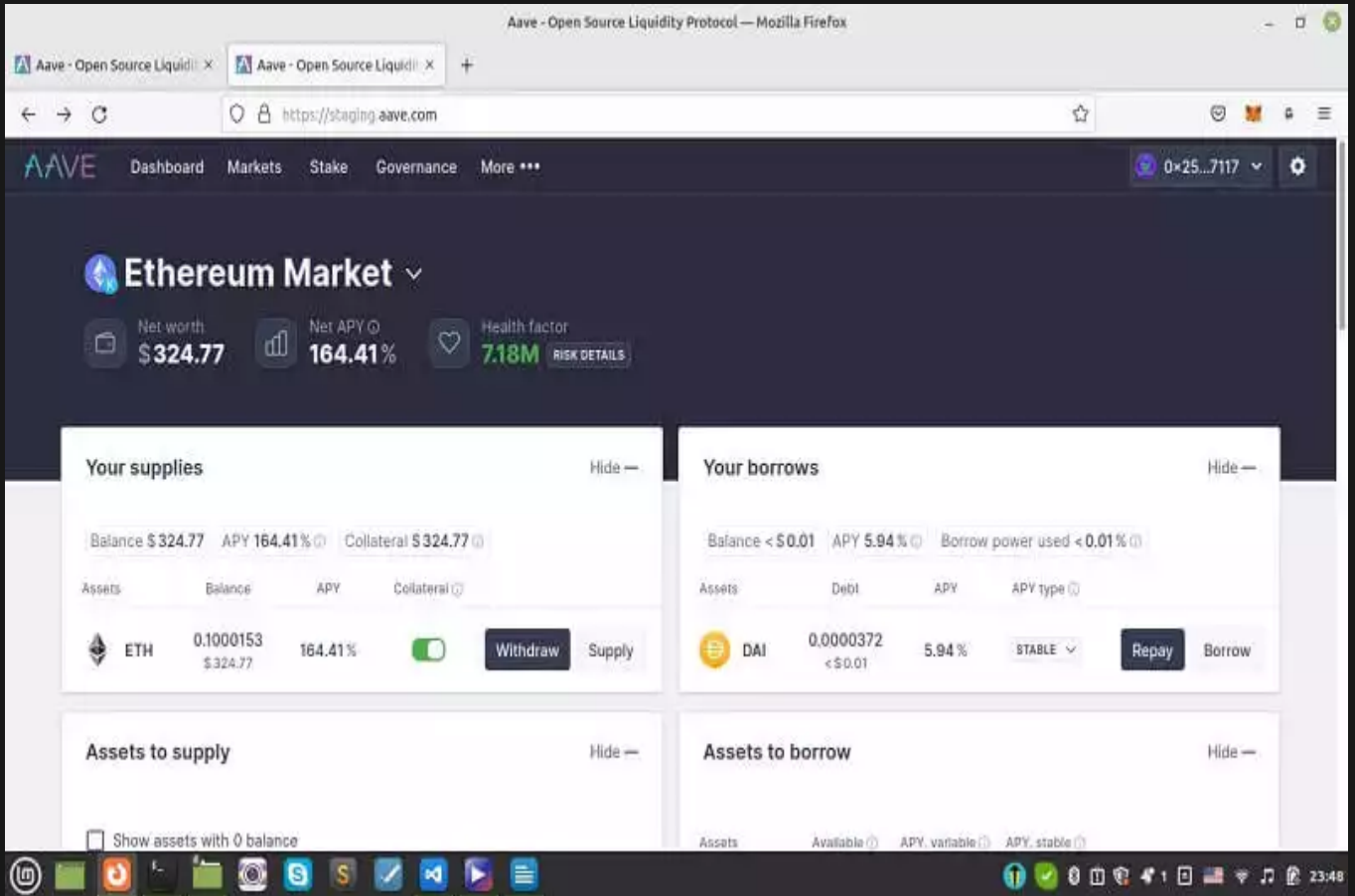
You will see the Metamask pop-up asking for confirmation:



And there we go! We have deposited 0.1 ETH.

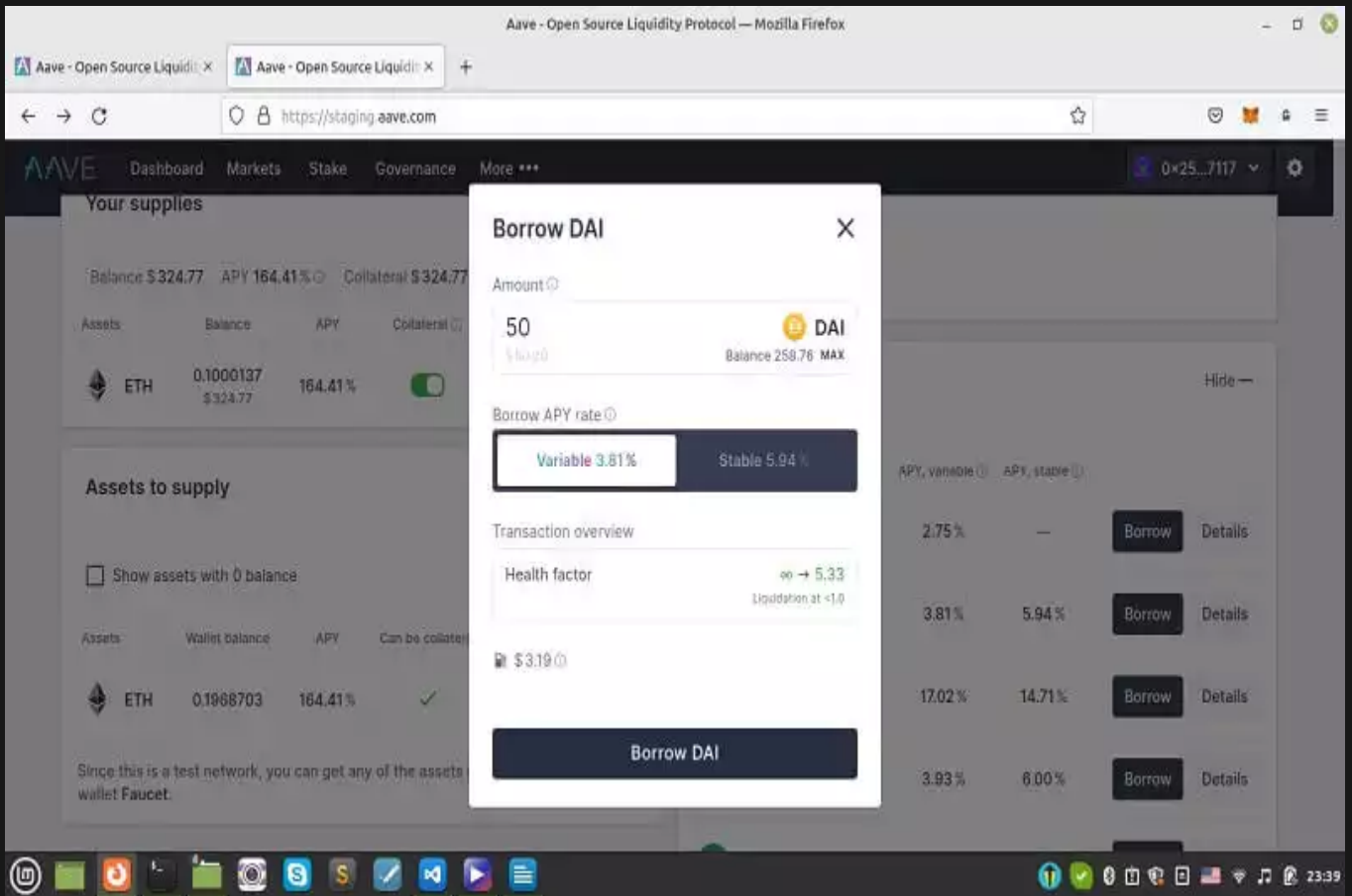


You can activate and deactivate the collateral option, you can also withdraw the money any time you want, and if you balance you will notice that the amount increases little by little.

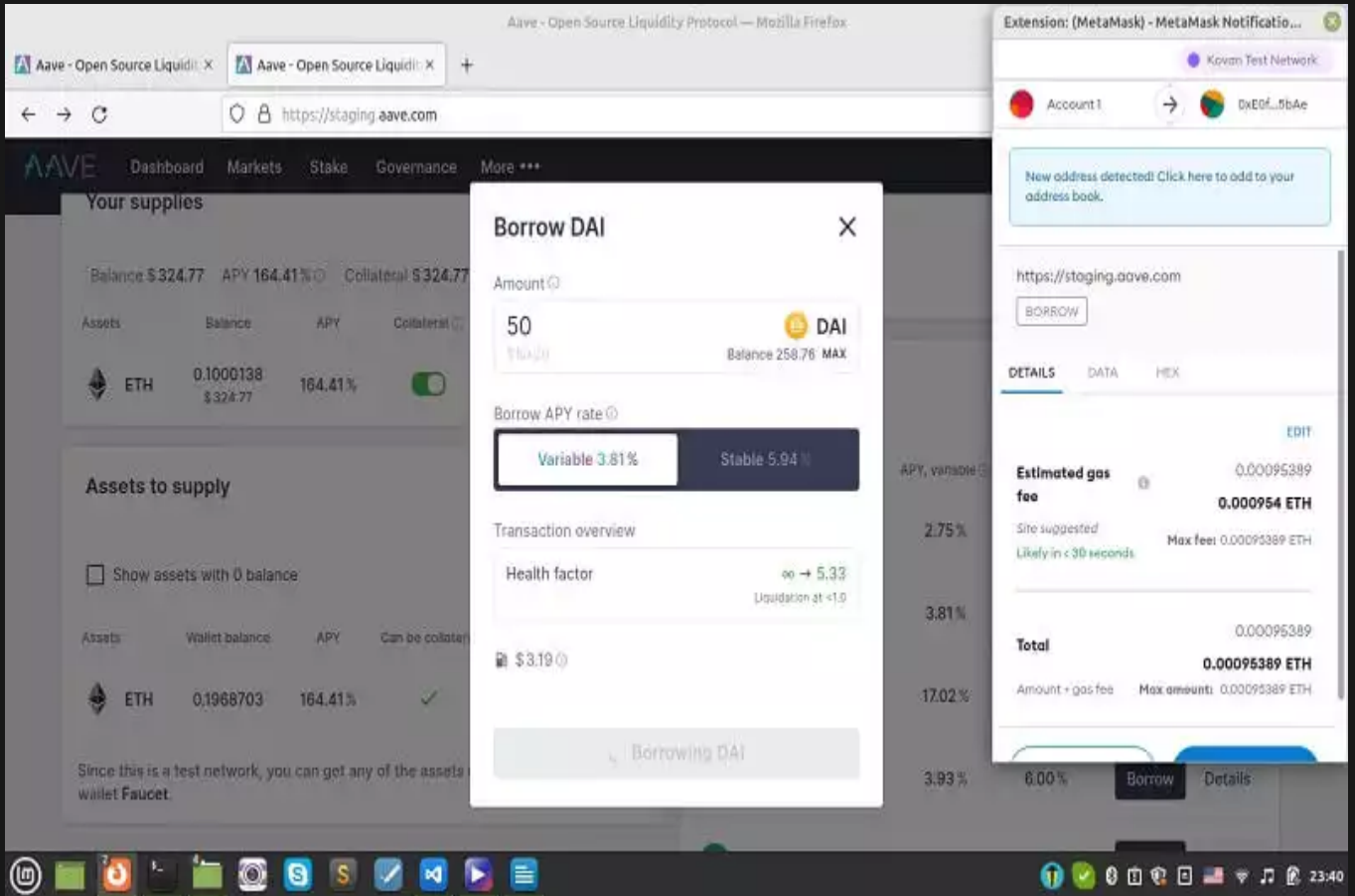


The screenshot displays the Aave Ethereum Market dashboard. At the top, the navigation bar includes 'Dashboard', 'Markets', 'Stake', 'Governance', and 'More'. The main header shows 'Ethereum Market' with a dropdown arrow. Below this, three key metrics are displayed: Net worth (\$324.77), Net APY (164.41%), and Health factor (7.18M). The dashboard is divided into four main sections: 'Your supplies', 'Your borrows', 'Assets to supply', and 'Assets to borrow'. The 'Your supplies' section shows a balance of \$324.77, an APY of 164.41%, and collateral of \$324.77. It lists one asset, ETH, with a balance of 0.1000153 and a value of \$324.77. The 'Your borrows' section shows a balance of < \$0.01, an APY of 5.94%, and borrow power used of < 0.01%. It lists one asset, DAI, with a debt of 0.0000372 and a value of < \$0.01. The 'Assets to supply' and 'Assets to borrow' sections are currently empty.

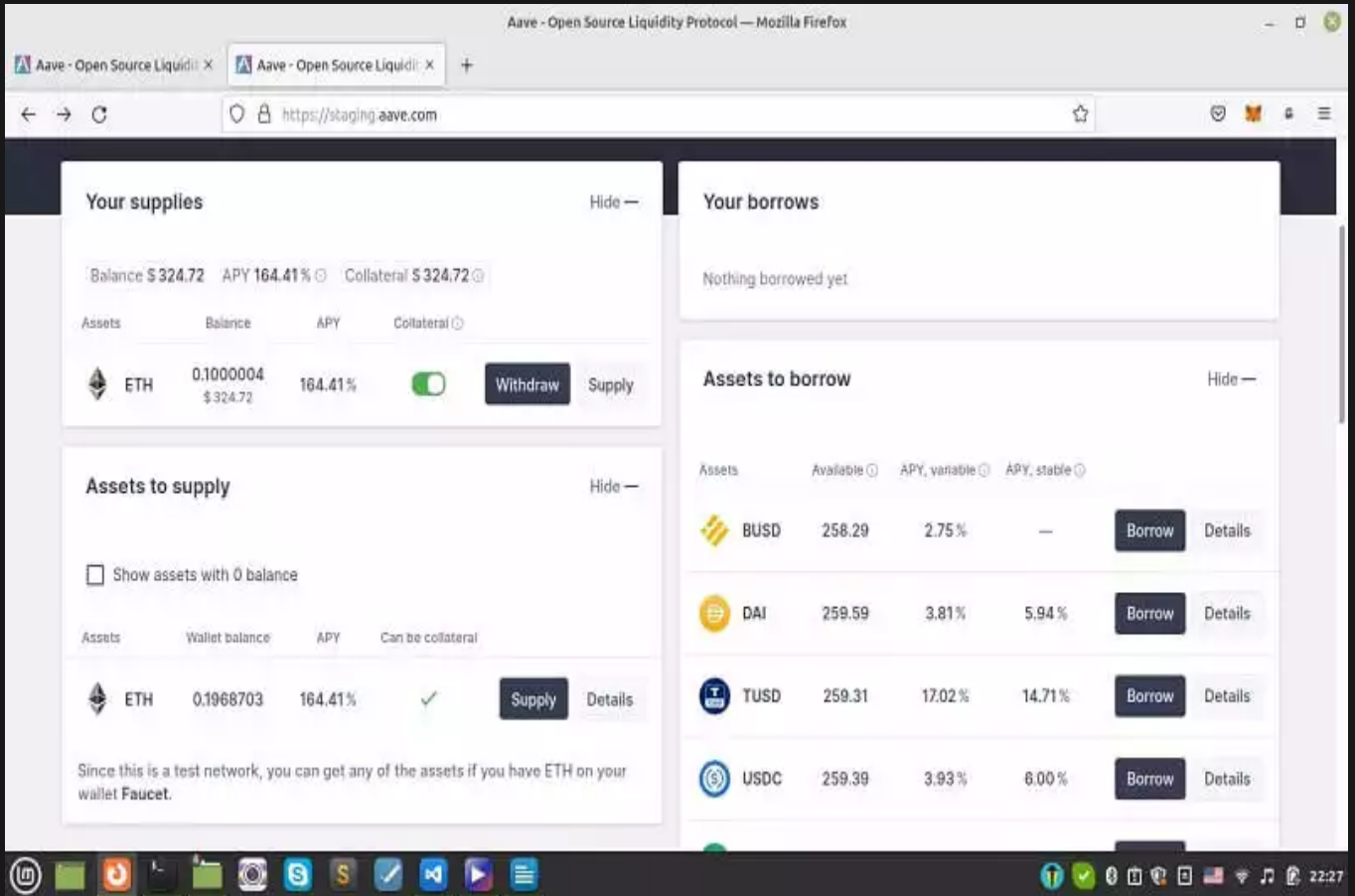
You can also borrow any other assets that you want. To do that, you should click borrow next to the token that you want to borrow and choose the borrow APY rate and check the health factor to avoid being liquidated.



Click borrow DAI (the token we have chosen to borrow) and confirm the Metamask pop-up.



Now, you can see the borrows and supplies (deposits) lists on top.

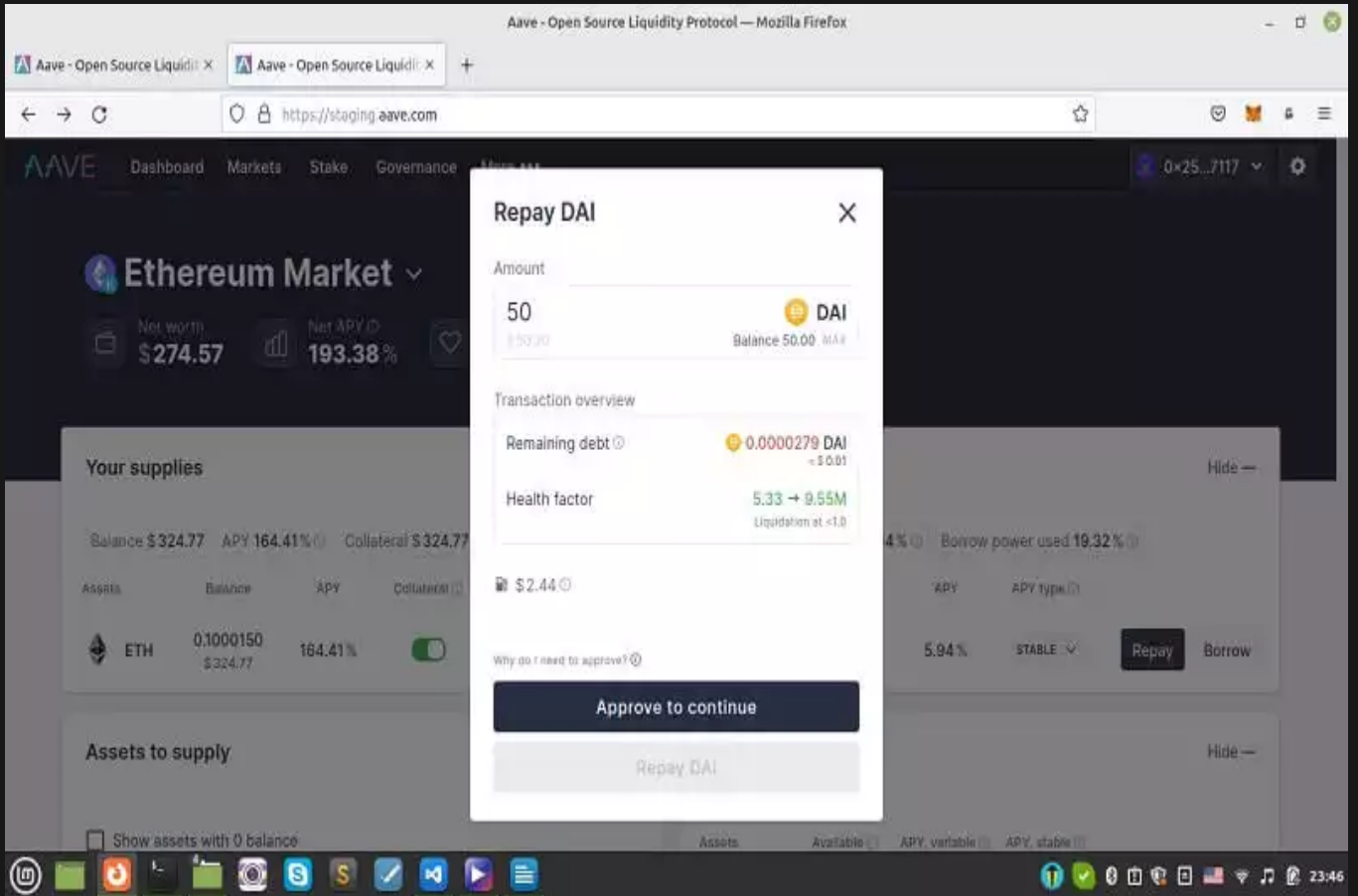


The screenshot shows the Aave web interface in a Mozilla Firefox browser. The URL is <https://staging.aave.com>. The interface is divided into several sections:

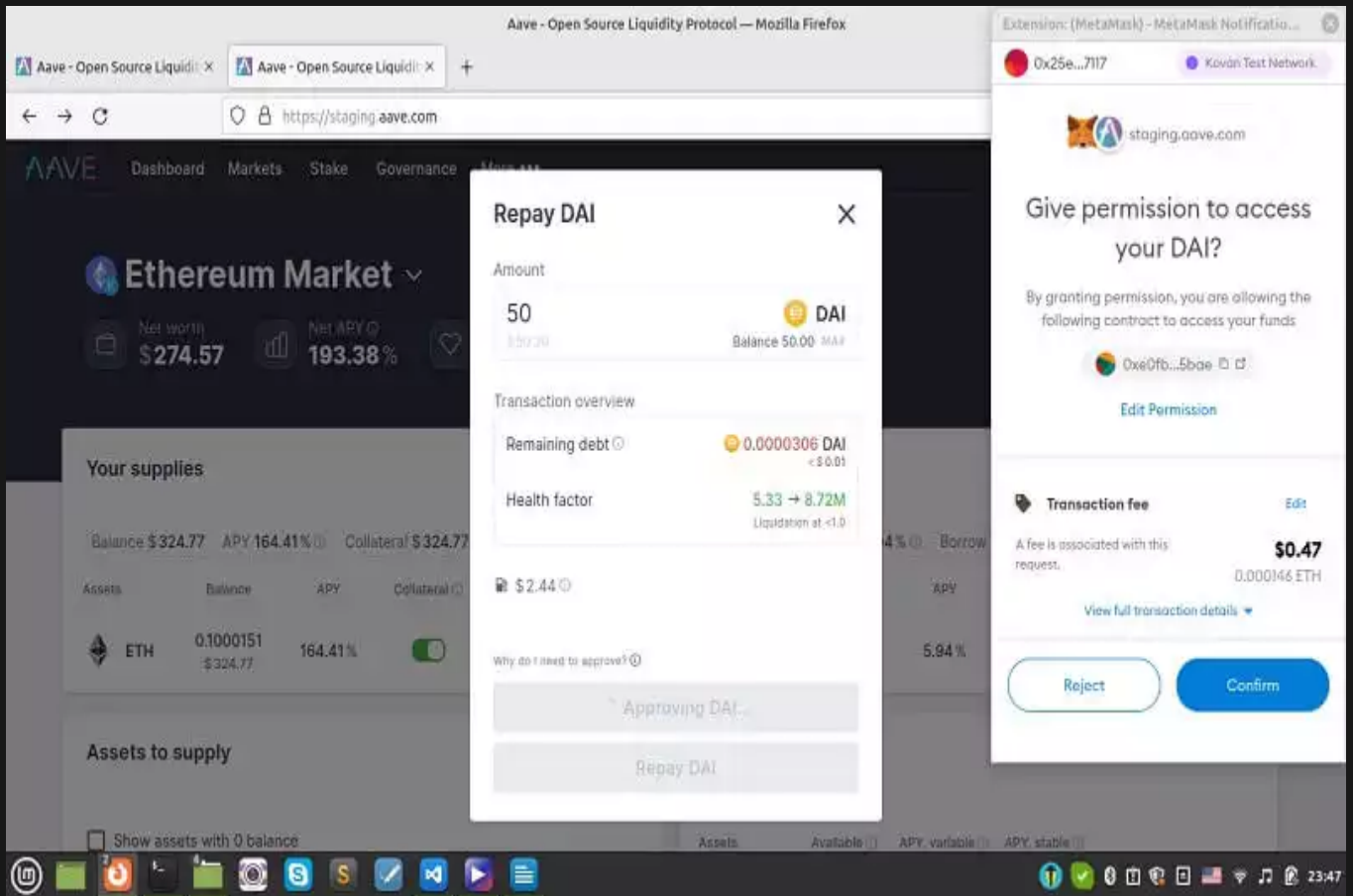
- Your supplies:** Shows a balance of \$324.72, an APY of 164.41%, and collateral of \$324.72. A table lists assets with columns for Assets, Balance, APY, and Collateral. One asset is listed: ETH with a balance of 0.1000004 and a collateral value of \$324.72. There are 'Withdraw' and 'Supply' buttons.
- Assets to supply:** Includes a checkbox for 'Show assets with 0 balance'. A table lists assets with columns for Assets, Wallet balance, APY, and Can be collateral. One asset is listed: ETH with a wallet balance of 0.1968703 and an APY of 164.41%. There are 'Supply' and 'Details' buttons. A note below states: 'Since this is a test network, you can get any of the assets if you have ETH on your wallet Faucet.'
- Your borrows:** Shows 'Nothing borrowed yet'.
- Assets to borrow:** A table lists assets with columns for Assets, Available, APY, variable, APY, stable, and buttons for 'Borrow' and 'Details'. The assets listed are BUSD, DAI, TUSD, and USDC.

Assets	Available	APY, variable	APY, stable		
BUSD	258.29	2.75 %	—	Borrow	Details
DAI	259.59	3.81 %	5.94 %	Borrow	Details
TUSD	259.31	17.02 %	14.71 %	Borrow	Details
USDC	259.39	3.93 %	6.00 %	Borrow	Details

You can repay DAI whenever you want. To do that, click repay:

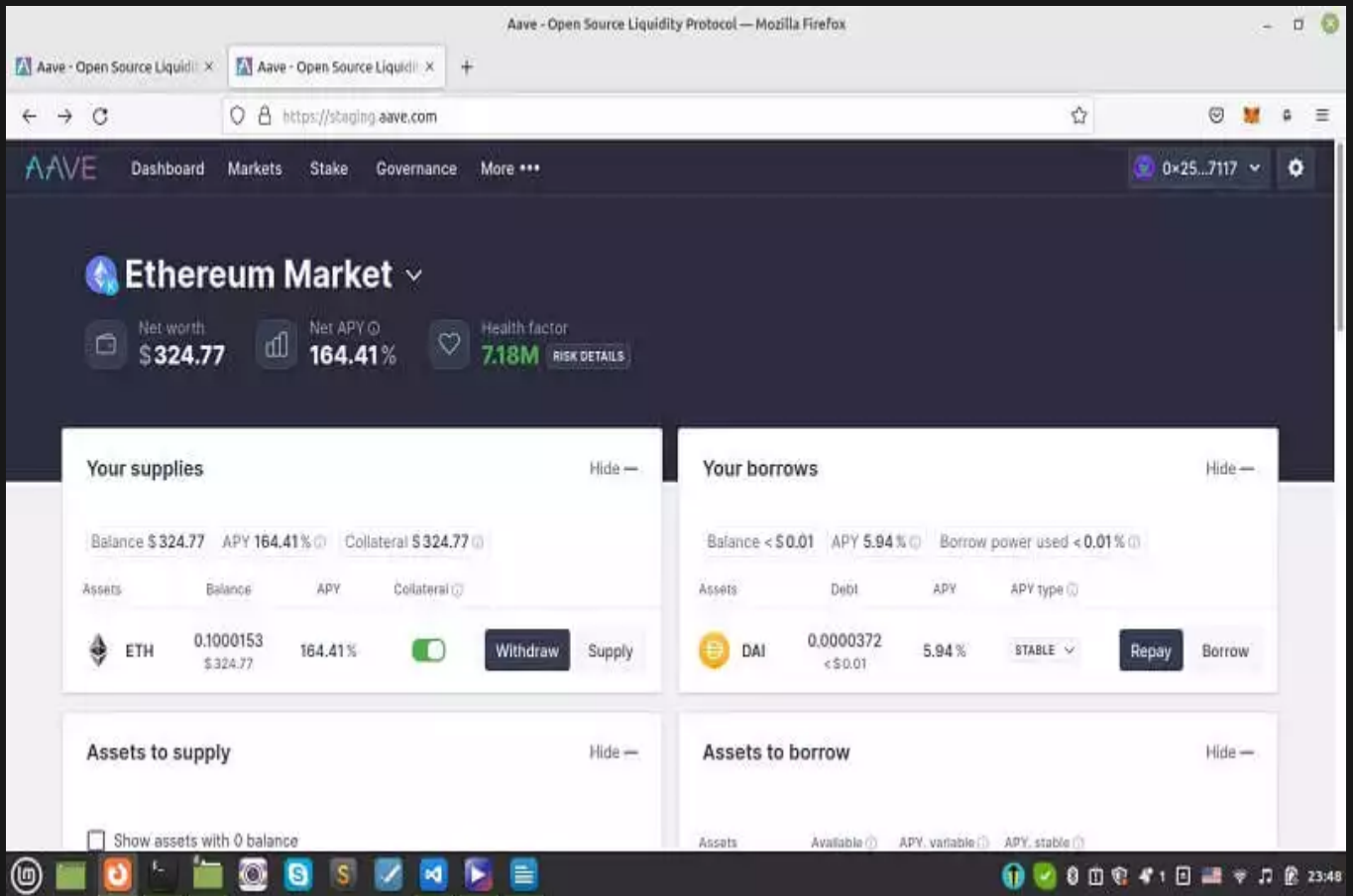


Notice that even if you choose the max amount, you cannot repay all of it because the amount of debt has increased with time because of APY. Click approve to continue and confirm the Metamask pop-up.



The screenshot displays the Aave web interface in a Mozilla Firefox browser. The main page shows the 'Ethereum Market' with a net worth of \$274.57 and a net APY of 193.38%. A 'Repay DAI' modal is open, showing a repayment amount of 50 DAI. The modal also displays transaction overview details: Remaining debt of 0.0000306 DAI, Health factor of 5.33 (increasing to 8.72M), and a liquidation threshold of -1.0. A transaction fee of \$0.47 (0.000146 ETH) is shown. A MetaMask extension notification is visible on the right, asking for permission to access DAI funds. The notification includes the user's address (0x25e...7117) and the network (Kovan Test Network). The notification also shows the transaction fee and provides 'Reject' and 'Confirm' buttons.

After it is successfully done, you will be able to see that your debt has decreased to a very small fraction of DAI.



The screenshot displays the Aave Open Source Liquidity Protocol dashboard. At the top, the navigation menu includes 'Dashboard', 'Markets', 'Stake', 'Governance', and 'More'. The main header shows the 'Ethereum Market' with a net worth of \$324.77, a net APY of 164.41%, and a health factor of 7.18M. Below this, there are four panels: 'Your supplies' (showing ETH supply with a balance of 0.1000153 and a collateral of \$324.77), 'Your borrows' (showing DAI borrow with a debt of 0.0000372 and an APY of 5.94%), 'Assets to supply', and 'Assets to borrow'.

In the next part, we are going to interact with these tools through python scripts.

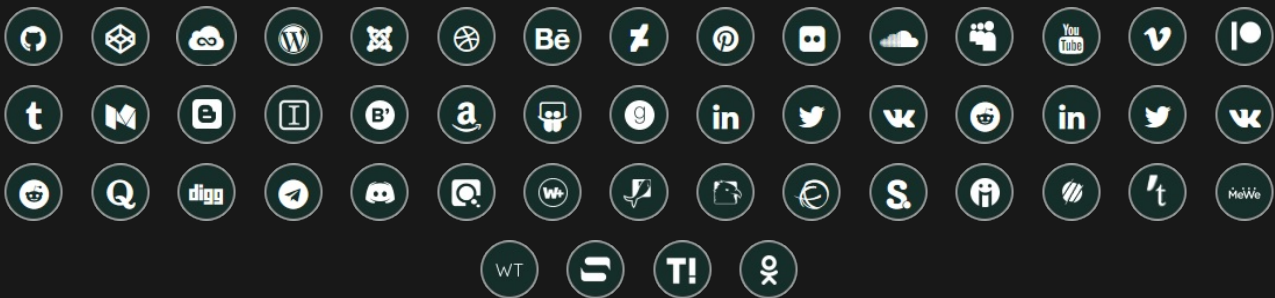
Last Thought

In this tutorial, we have managed to connect our Metamask to the Aave website to be able to interact with the Aave protocol directly. Then, we switched to Testnet. We also got some Kovan ETH from the Chainlink Kovan faucet. Using the test ETH we have got, we have managed to deposit it, withdraw Dai, and pay it back.

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