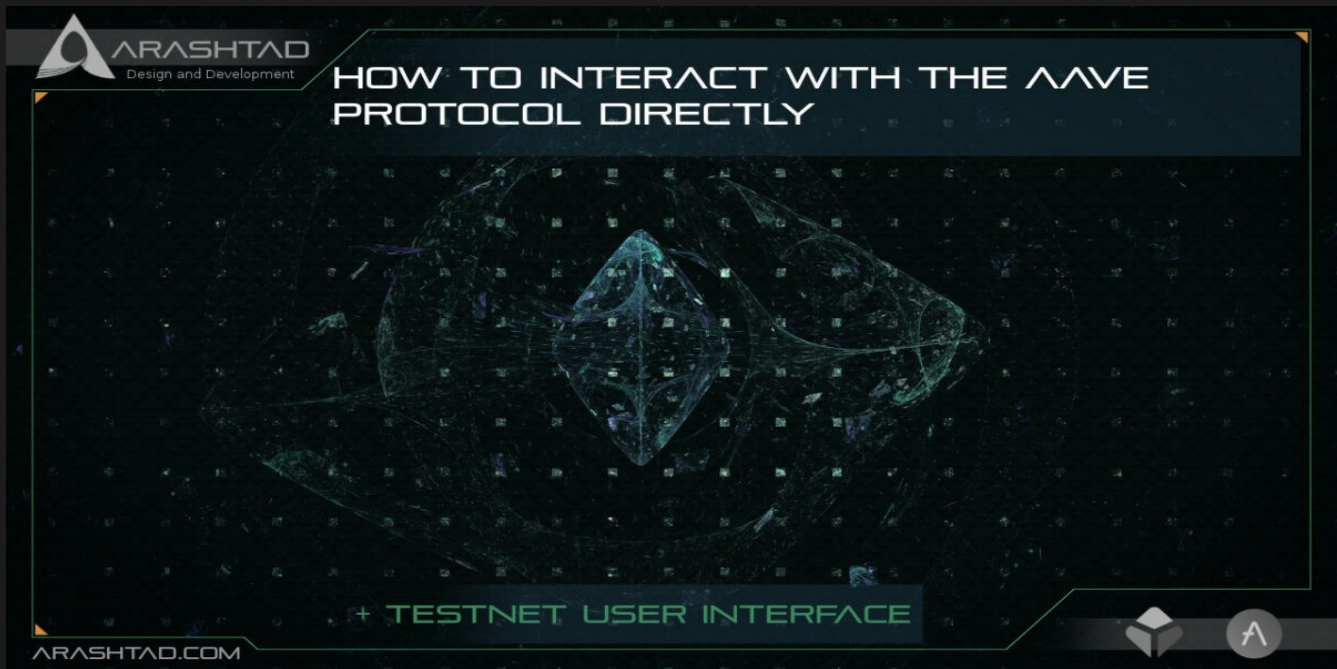


Title	HOW TO INTERACT WITH THE AAVE PROTOCOL DIRECTLY + TESTNET USER INTERFACE
Description	Tutorial
Date	June 05, 2022
Author	Arashtad
Author URI	https://Arashtad.com



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.

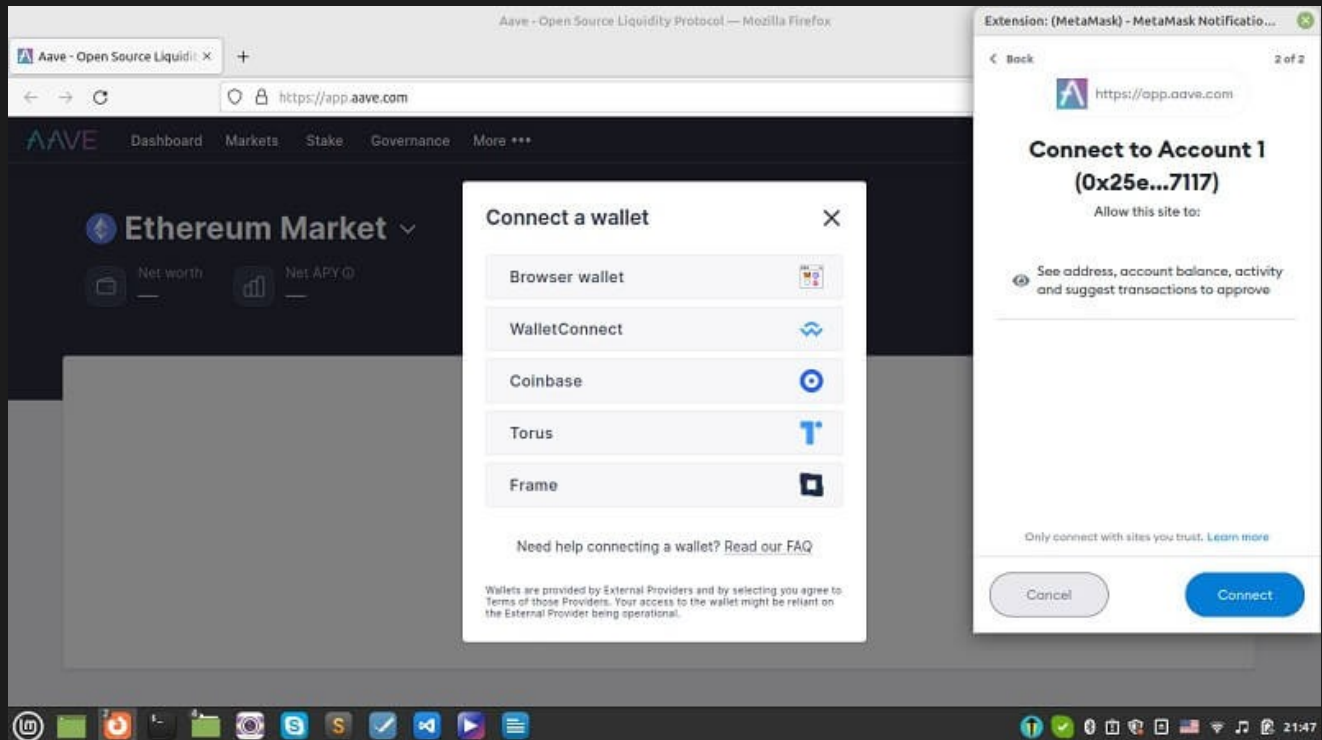
WHAT IS AAVE PROTOCOL?

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.

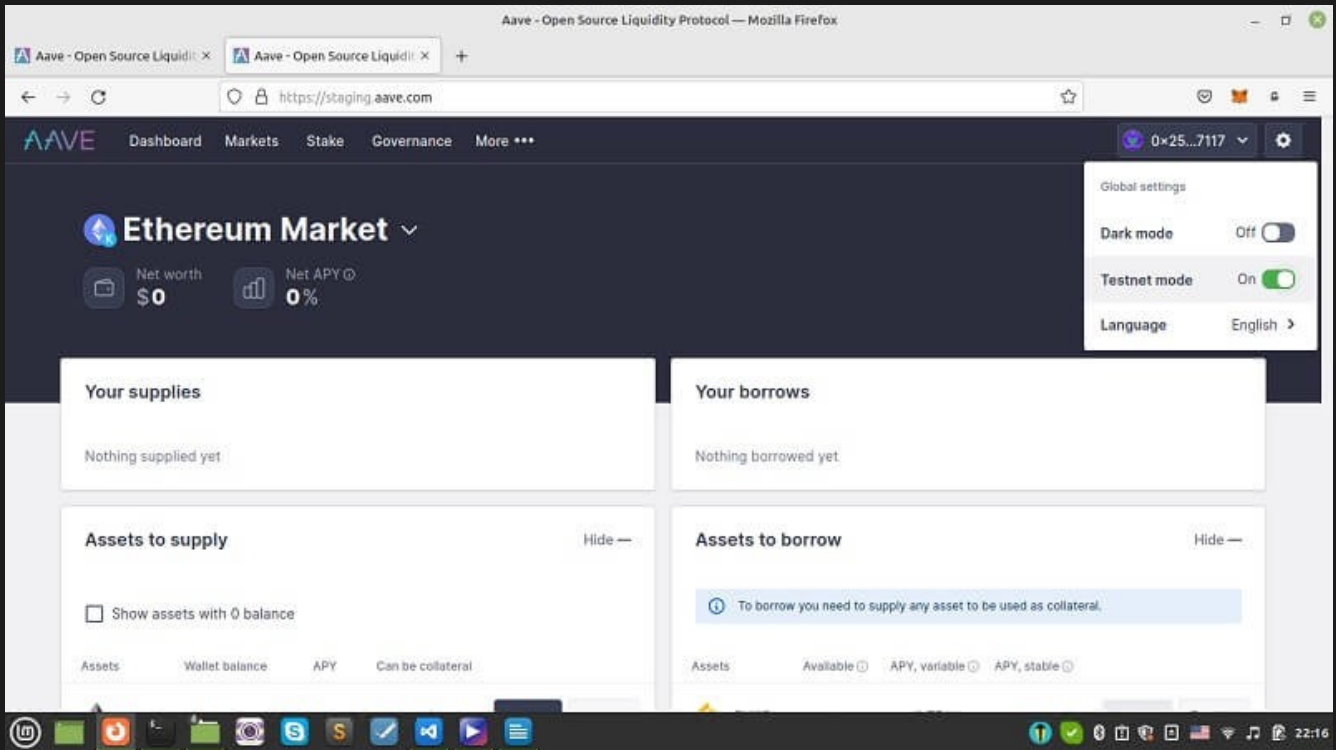
Now, we are going to first interact manually with the user interface at the [Aave web](https://app.aave.com) app and then get into the code interaction with the Aave protocol.

CONNECTING METAMASK TO AAVE:

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

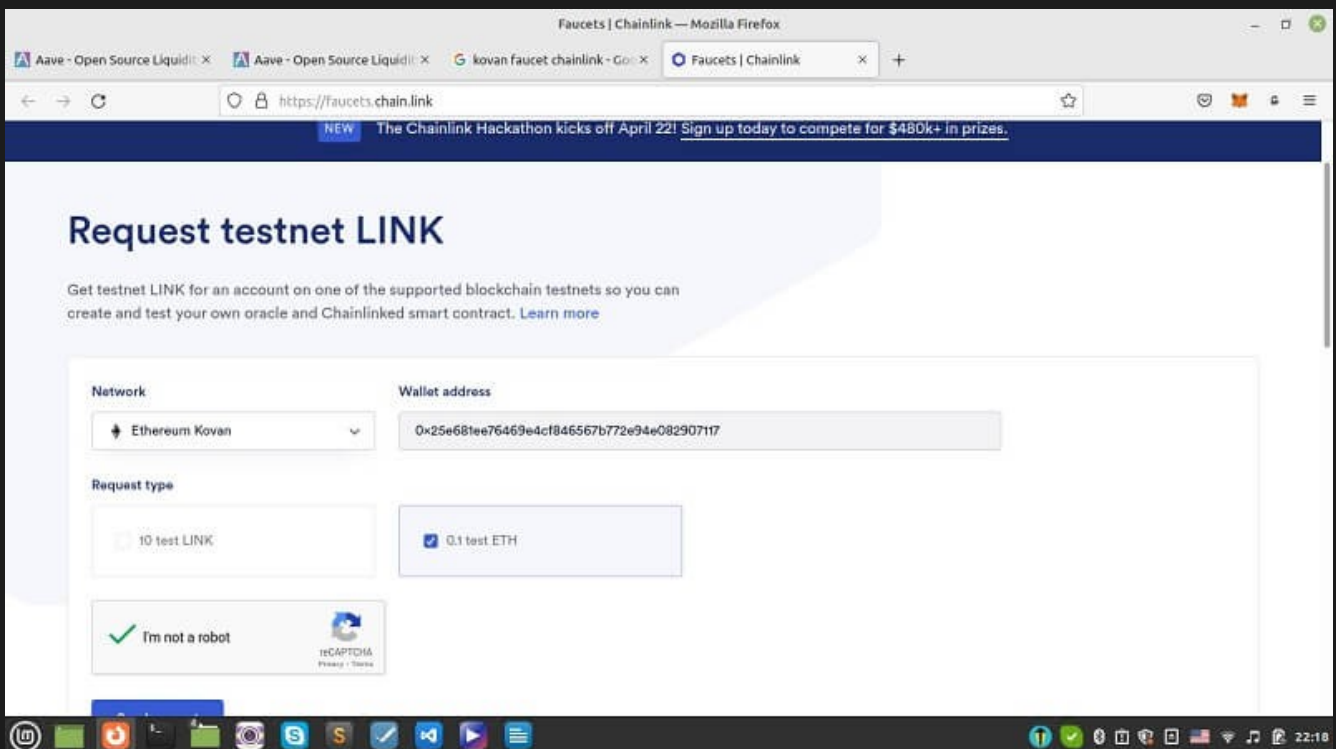


Then from the top right settings button, switch to Testnet mode



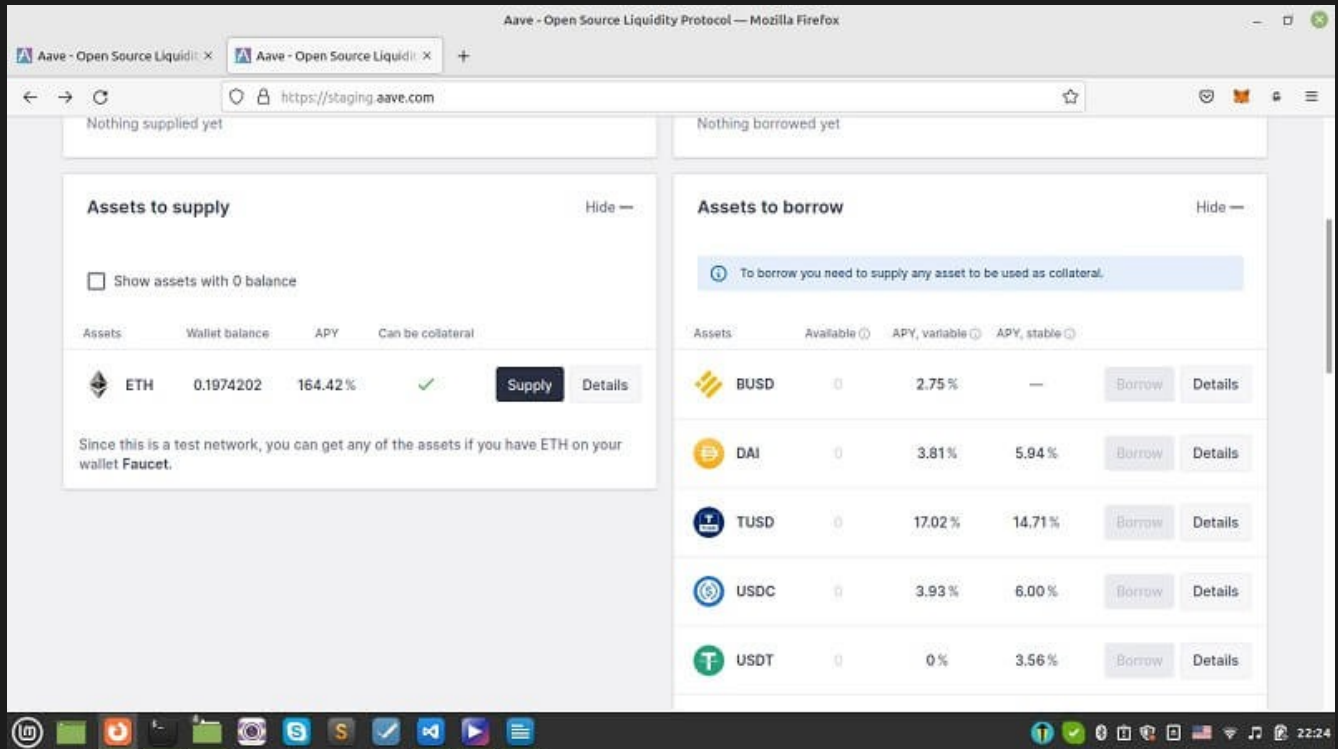
GETTING KOVAN ETH:

Also, don't forget to get some Kovan ETH from [this link](https://faucets.chainlink.com):

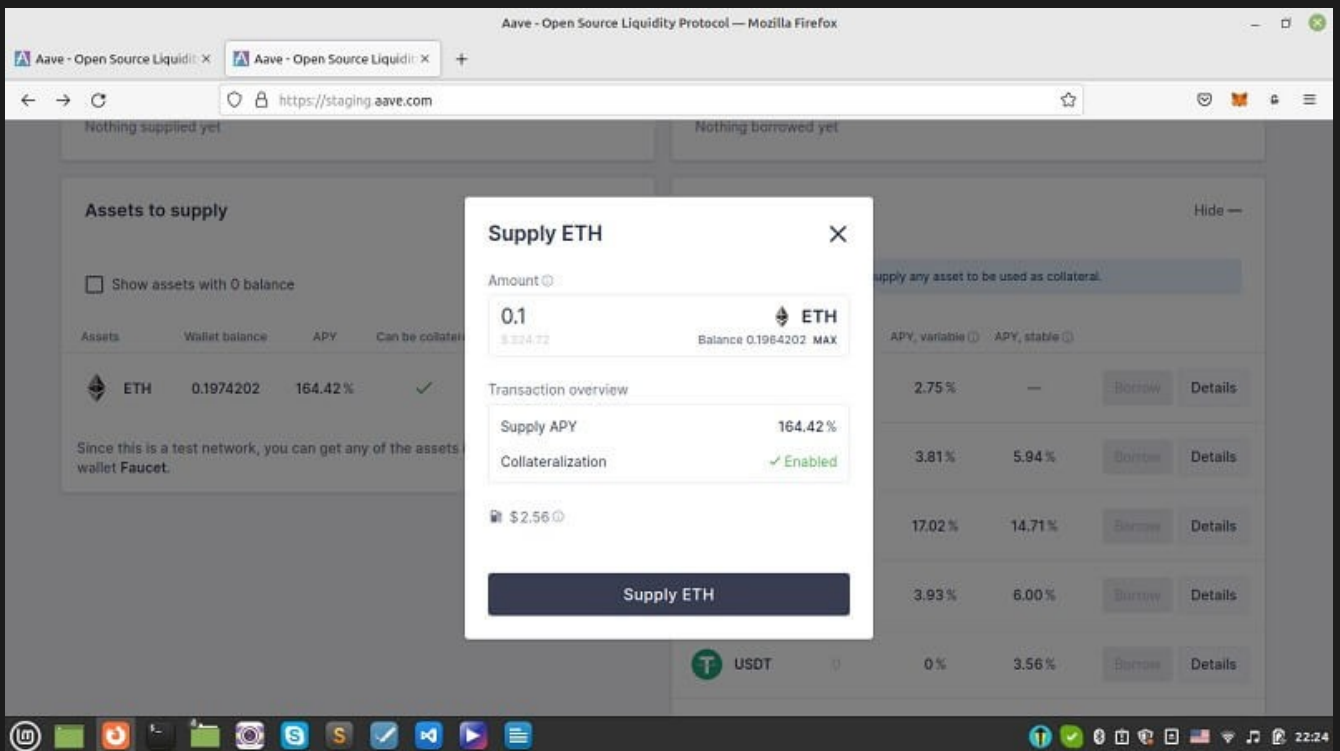


INTERACTING WITH AAVE PROTOCOL DIRECTLY

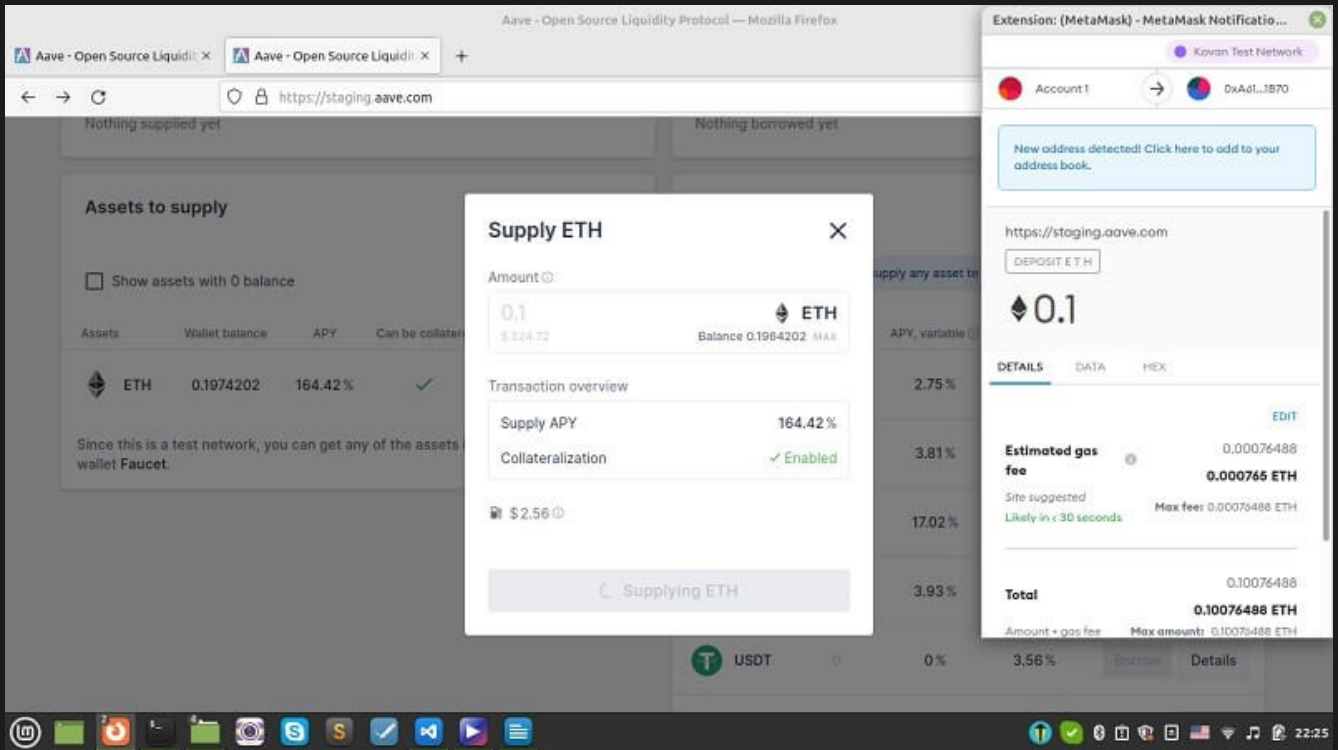
Once your wallet is connected and you have got some kovan ETH, you will be able to see that your available asset on kovan test network is displayed on the webpage:



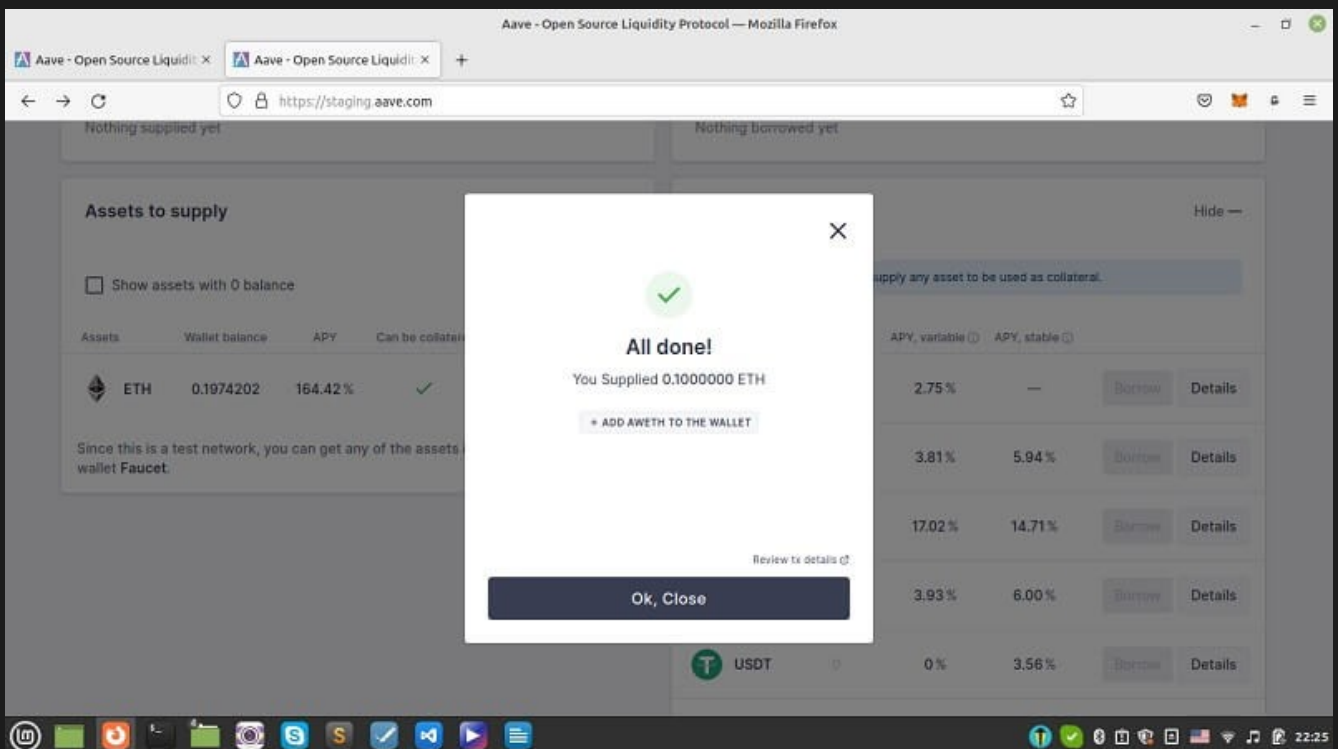
Now, in order to deposit or supply some ETH, Click supply and choose the amount of ETH you want to supply or lend. And then click Supply ETH.



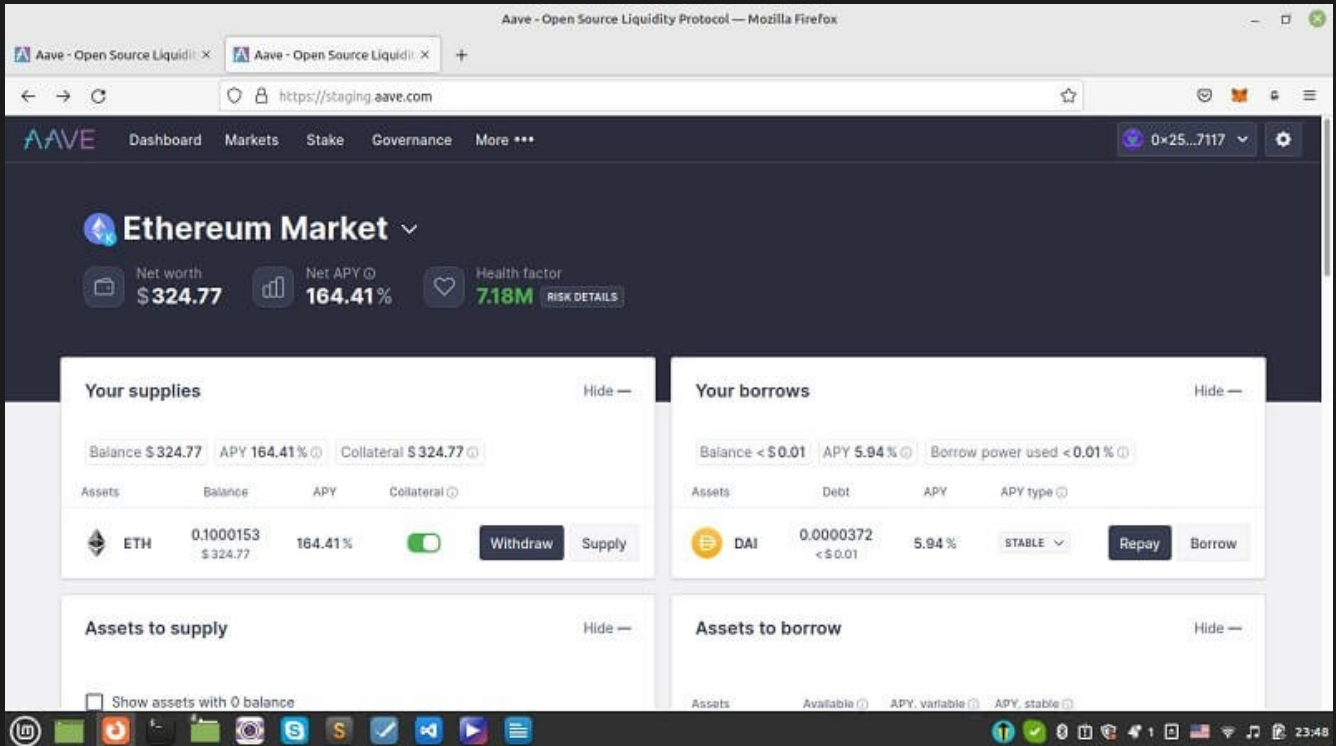
You will see the Metamask pop-up asking for confirmation:



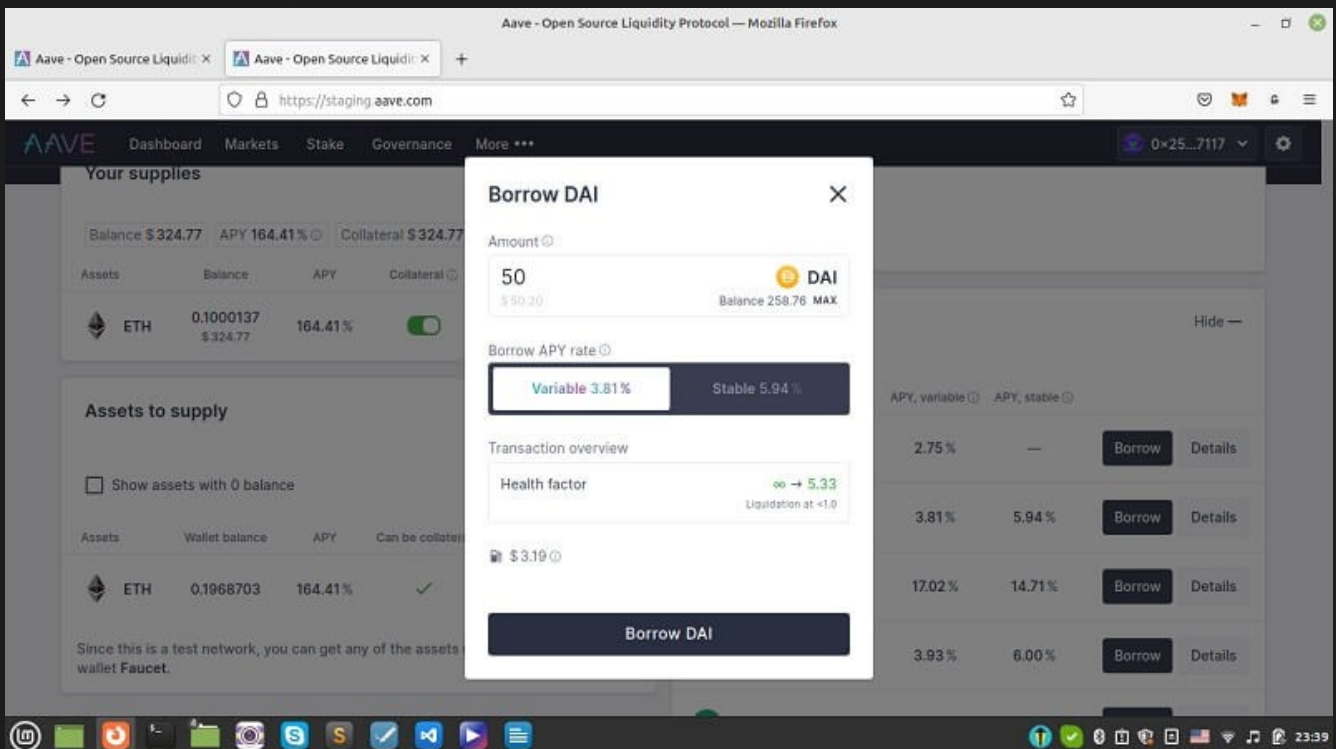
And there we go! We have deposited 0.1 ETH.



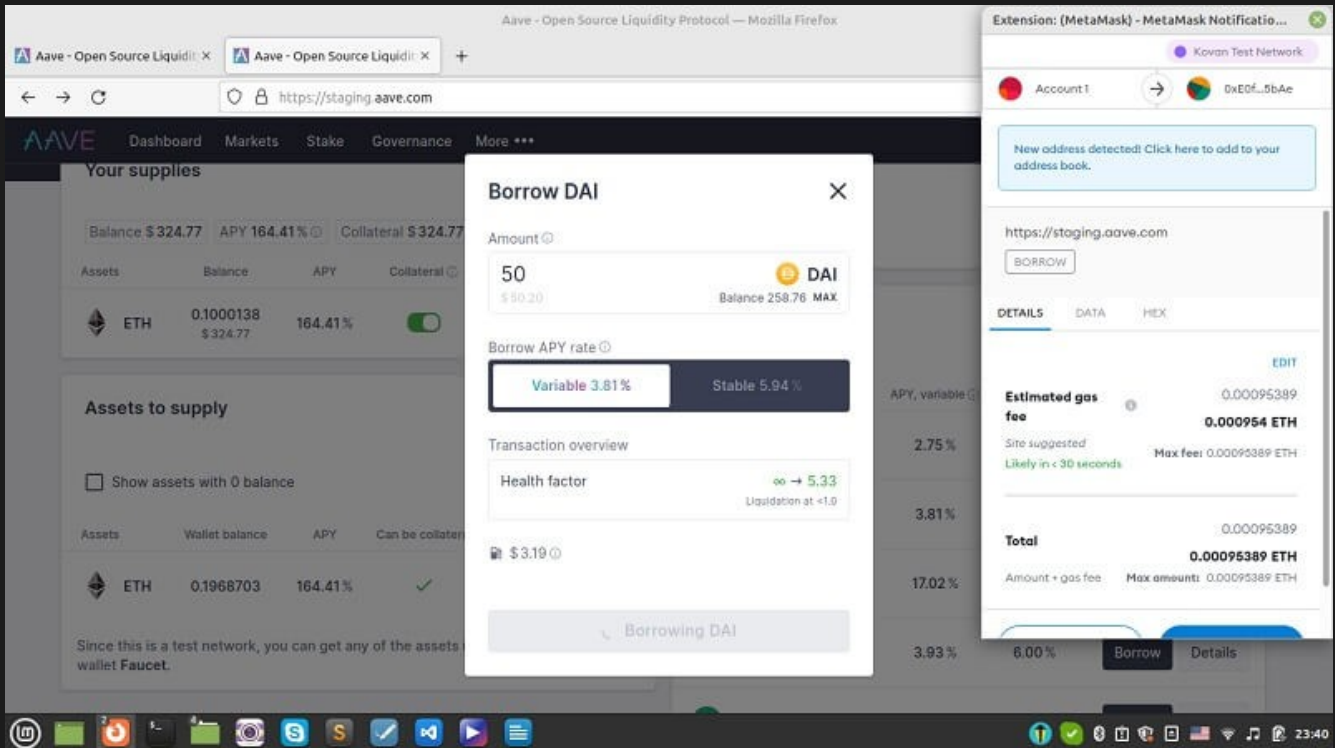
You can activate and deactivate the collateral option, you can also withdraw the money any time you want, and if you balance you will notice that the amount increases little by little.



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.

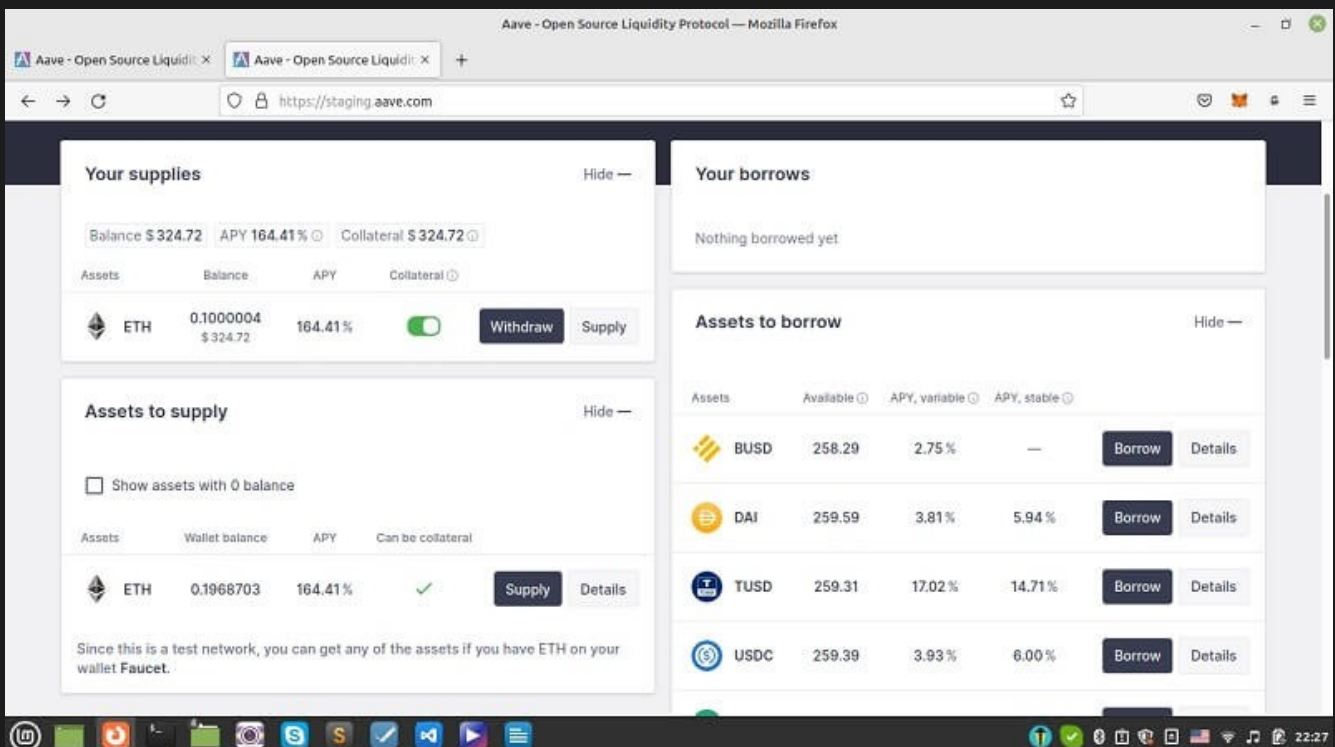


Click borrow DAI (the token we have chosen to borrow) and confirm the Metamask pop-up.



The screenshot shows the Aave web interface with a 'Borrow DAI' modal open. The modal displays a borrowing amount of 50 DAI (worth \$50.20) and offers two APY rates: Variable at 3.81% and Stable at 5.94%. The health factor is 5.33, and the transaction cost is \$3.19. A Metamask notification is visible on the right, showing the transaction details and an estimated gas fee of 0.00095389 ETH.

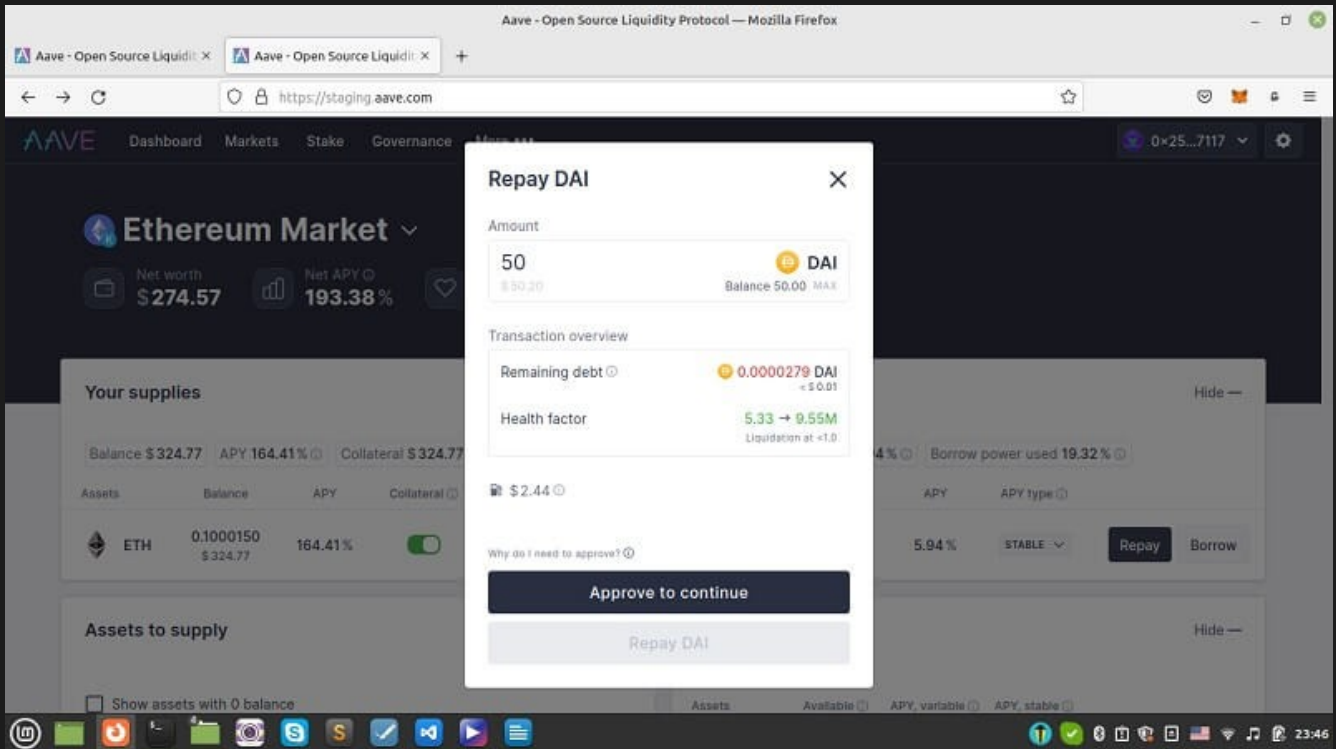
Now, you can see the borrows and supplies (deposits) lists on top.



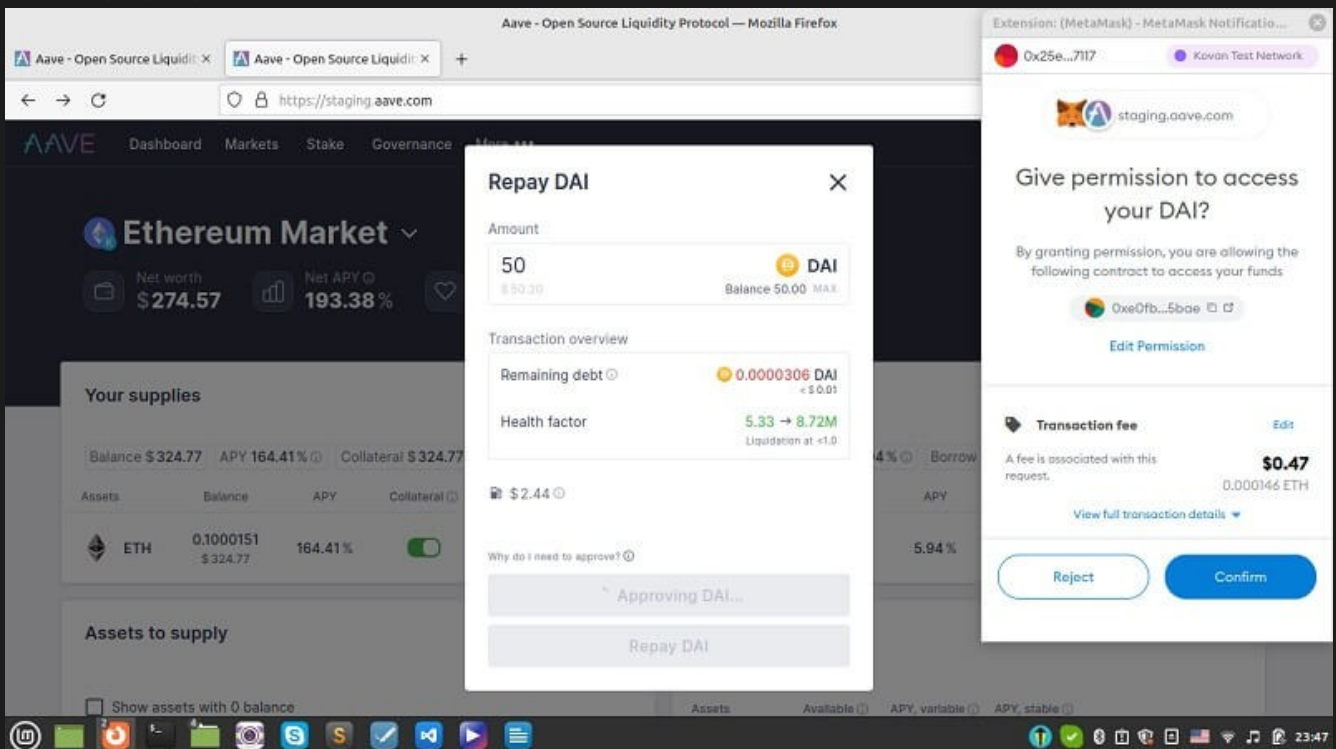
The screenshot shows the Aave interface with the 'Your supplies' and 'Your borrows' sections. The 'Your supplies' section shows a balance of \$324.72 and a collateral of \$324.72. The 'Your borrows' section shows 'Nothing borrowed yet'. The 'Assets to borrow' section lists various assets with their available amounts and APY rates.

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

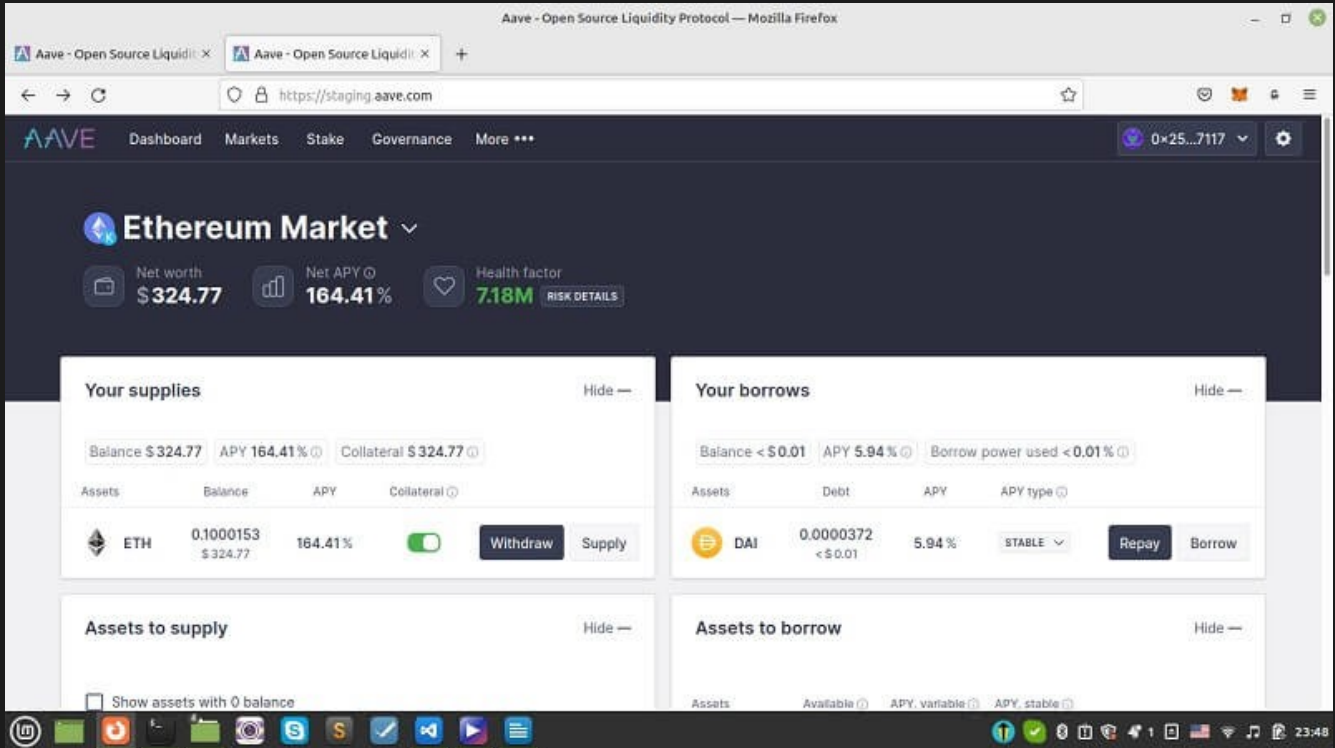
You can repay DAI whenever you want. To do that, click repay:



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.



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 in Mozilla Firefox. The browser address bar shows <https://staging.aave.com>. The dashboard features a navigation menu with 'Dashboard', 'Markets', 'Stake', 'Governance', and 'More ***'. The user's profile is identified as '0x25...7117'. The main section is titled 'Ethereum Market' and includes three key metrics: Net worth (\$324.77), Net APY (164.41%), and Health factor (7.18M). Below these are four panels: 'Your supplies' (showing ETH supply with a balance of 0.1000153 and collateral of \$324.77), 'Your borrows' (showing DAI debt with a balance of 0.0000372 and borrow power used of <0.01%), 'Assets to supply', and 'Assets to borrow'. The bottom of the image shows a Windows taskbar with various application icons and a system clock showing 23:48.

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.

