



SERENITY

On Boarding Course

SERENITY RESEARCH
2021 July

CONTENT

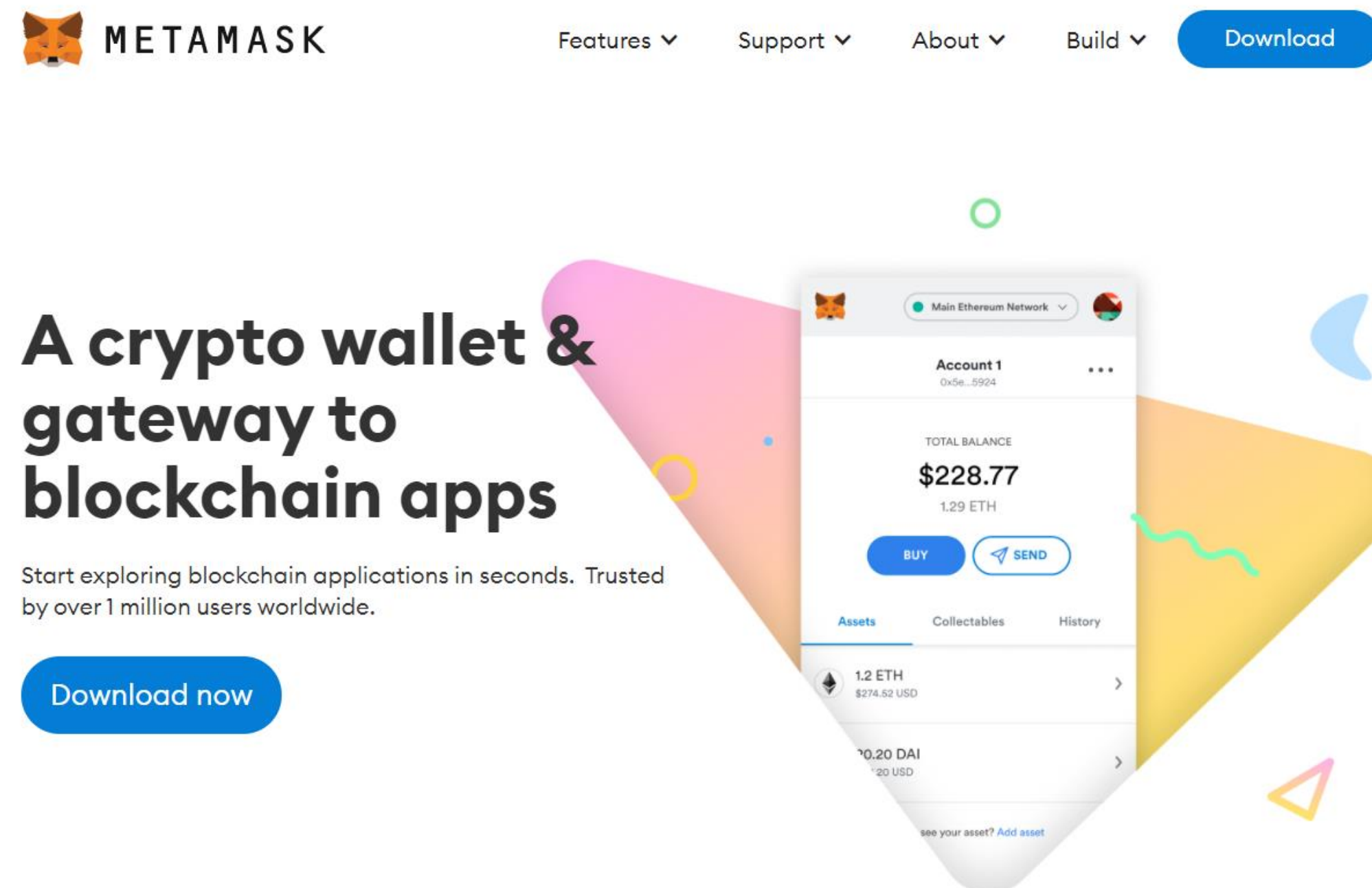
- ◆ **Part 1: Installing Metamask**
- ◆ **Part 2: Access Polygon Network**
- ◆ **Part 3: Playing with Defi - Aave**

PART 1

Installing Metamask

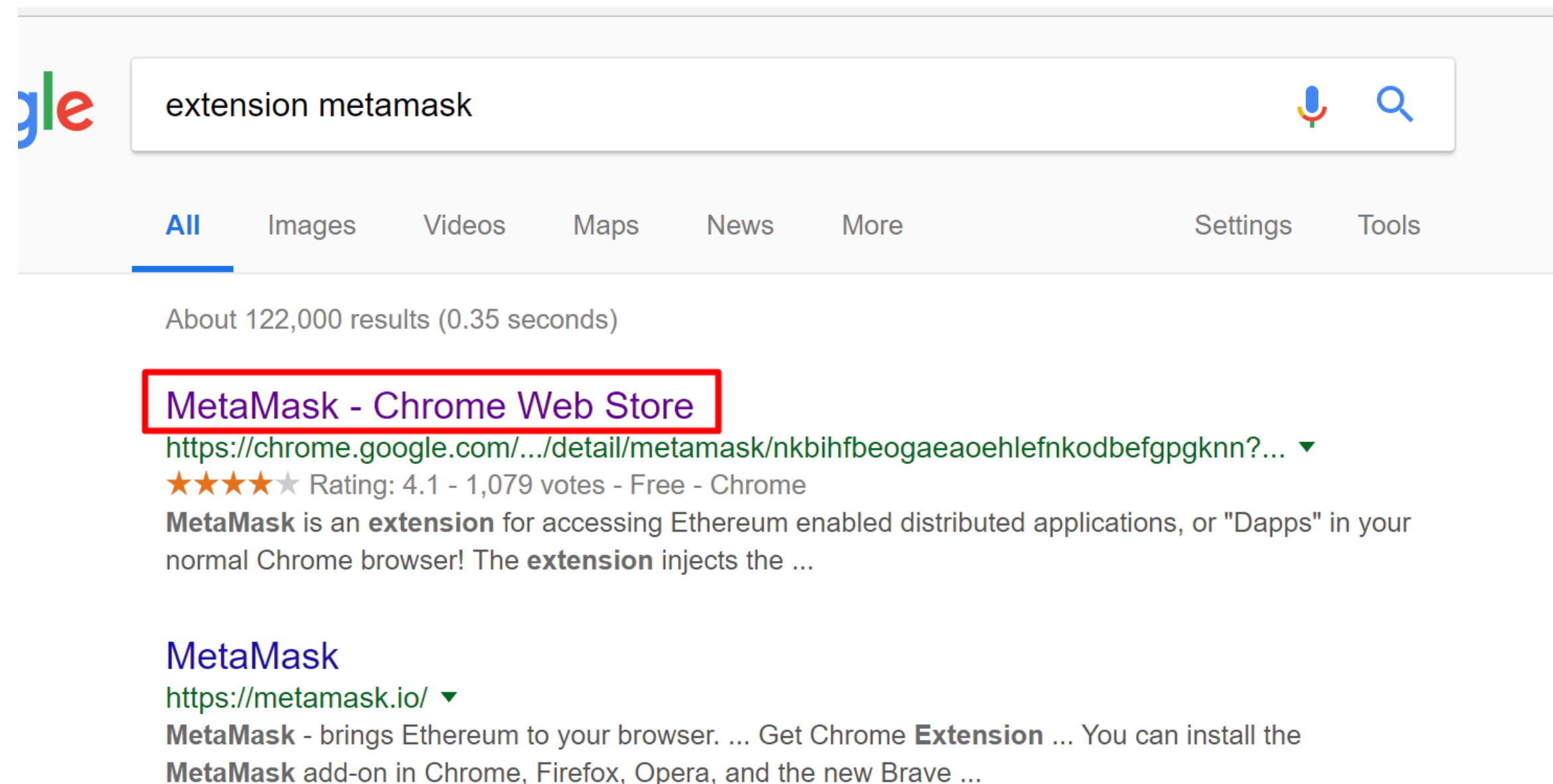
Installing Metamask

- ◆ MetaMask is a browser plugin that serves as an Ethereum wallet.
- ◆ Users can store Ether and other ERC-20 tokens in the MetaMask wallet.
- ◆ The wallet can also be used to interact with decentralized applications, or apps.
- ◆ You can install Metamask for Chrome, Firefox, Brave and Opera browsers.
- ◆ In this tutorial we will be using Google Chrome as an example, but the workflow is the same for all browsers.



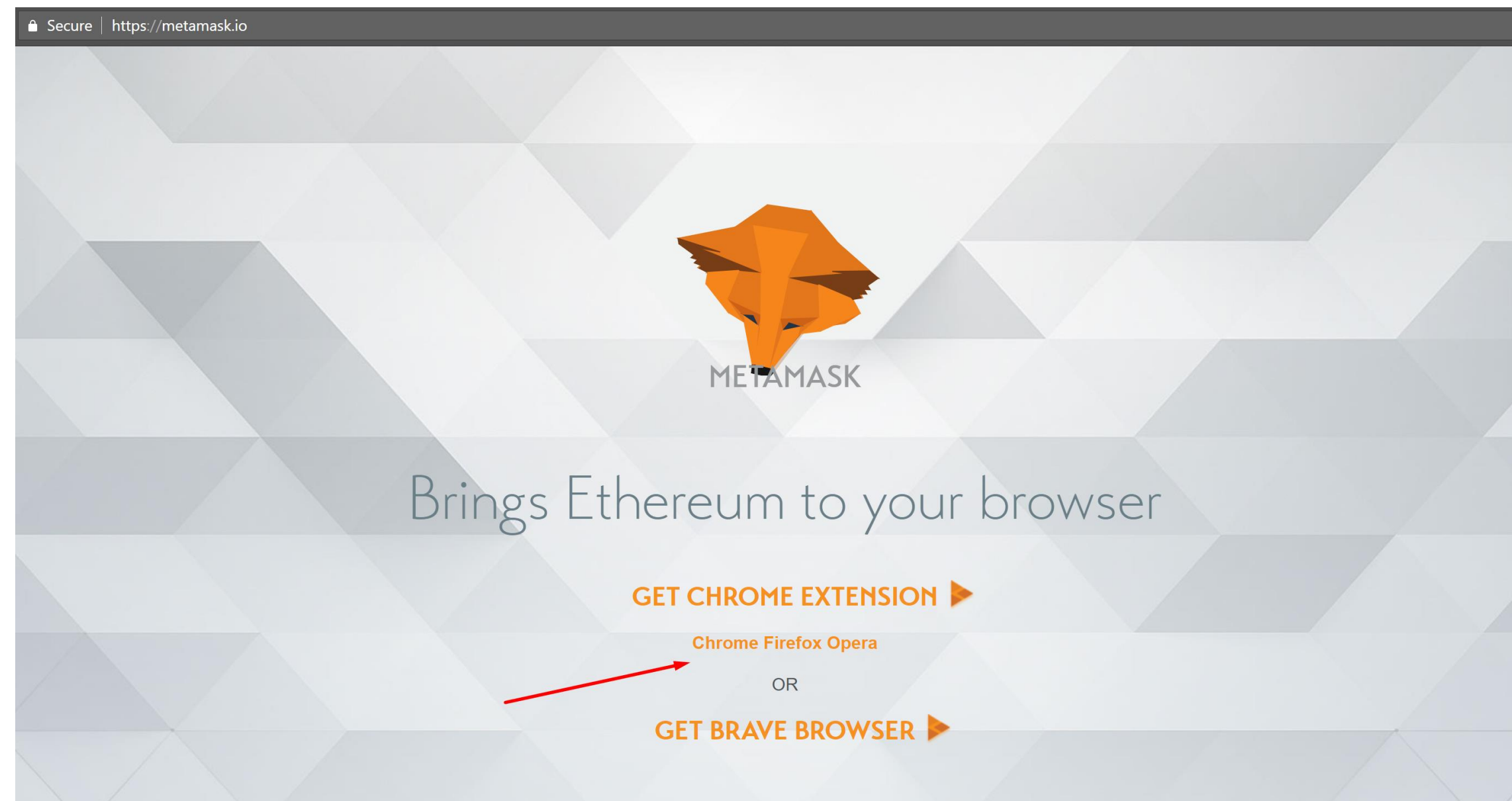
Installing Metamask

Step 1: Open <https://metamask.io> or search for “Metamask extension” using your favorite search engine.



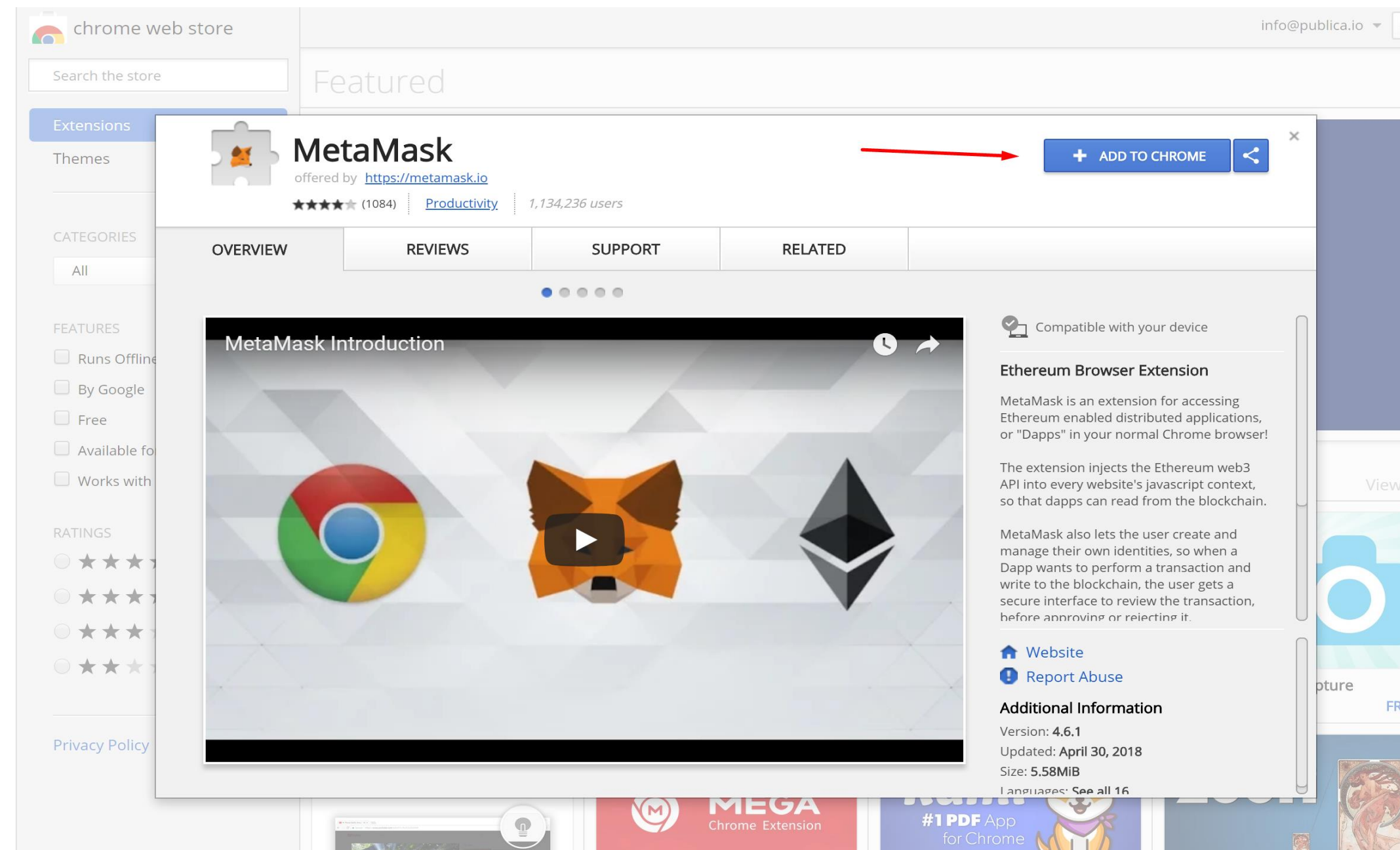
Installing Metamask

Step 2: Click Chrome to install MetaMask as a Google Chrome extension.



Installing Metamask

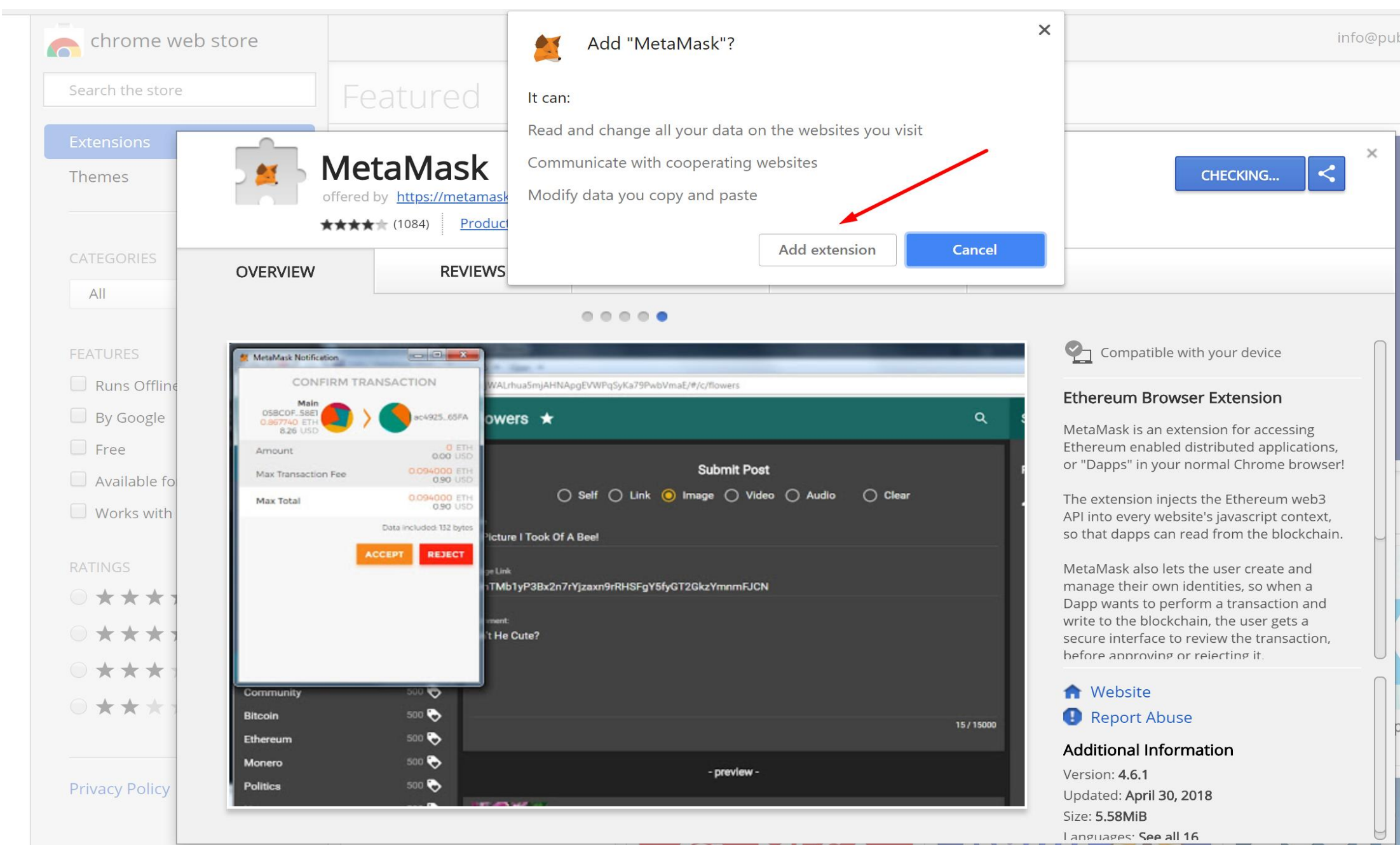
Step 3: Click Add to Chrome.



Installing Metamask



Step 4: Click Add Extension.



Installing Metamask

Step 5: Once installed, click the 'Get Started' button to begin creating your Ethereum wallet using MetaMask.



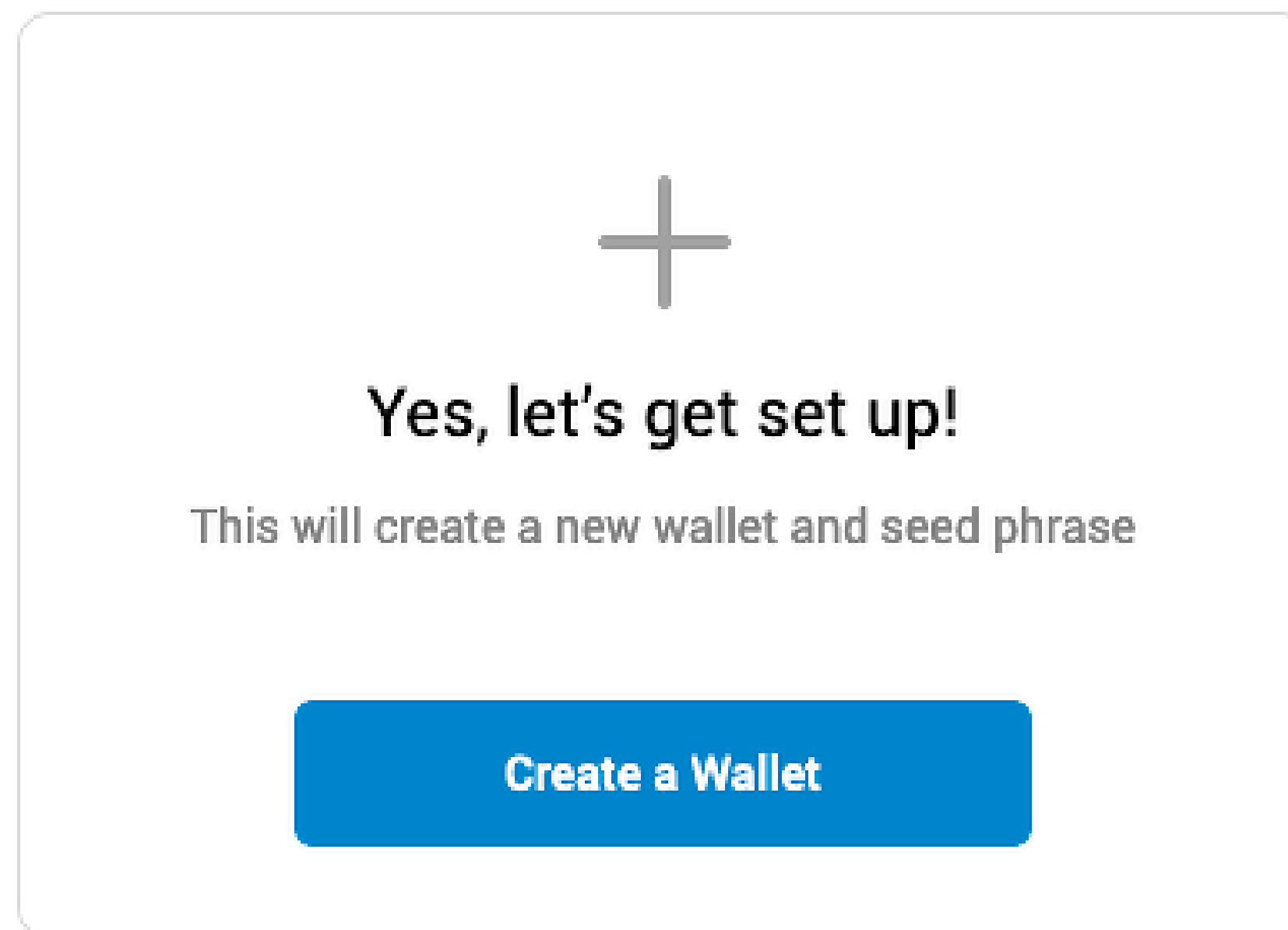
Welcome to MetaMask

Connecting you to Ethereum and the Decentralized Web.
We're happy to see you.

Get Started

Installing Metamask

Step 6: Click the 'Create a Wallet' button.



Installing Metamask



Step 7: You'll then be asked if you want to help improve MetaMask. Click 'No Thanks' if this doesn't interest you, otherwise click 'I agree'.

Help Us Improve MetaMask

MetaMask would like to gather usage data to better understand how our users interact with the extension. This data will be used to continually improve the usability and user experience of our product and the Ethereum ecosystem.

MetaMask will..

- ✓ Always allow you to opt-out via Settings
- ✓ Send anonymized click & pageview events
- ✓ Maintain a public aggregate dashboard to educate the community
- ✗ **Never** collect keys, addresses, transactions, balances, hashes, or any personal information
- ✗ **Never** collect your full IP address
- ✗ **Never** sell data for profit. Ever!

No Thanks

I agree

This data is aggregated and is therefore anonymous for the purposes of General Data Protection Regulation (EU) 2016/679. For more information in relation to our privacy practices, please see our [Privacy Policy here](#).

Installing Metamask



Step 8: Pick a password on the next step. This needs to be at least 8 characters long.

Create Password

New password (min 8 chars)

Confirm password



I have read and agree to the [Terms of Use](#)

Create

Installing Metamask



Step 9: Read and accept the Terms of Use, and click 'Create' once your password has been set.

MetaMask will then present you with your 12-word backup phrase. You'll need to write this down in the same order displayed on your screen. This will be needed to recover your wallet should you ever lose access to your computer, and should be kept stored somewhere safe. Anybody who has access to your 12-word back phrase will be able to recover your funds, so keep it private. Don't even copy & paste it!! Use a pen.

Installing Metamask

Step 10: Click 'Next' once you've written your 12-word backup phrase down.

Secret Backup Phrase

Your secret backup phrase makes it easy to back up and restore your account.

WARNING: Never disclose your backup phrase. Anyone with this phrase can take your Ether forever.



Remind me later

Next

Installing Metamask



Step 11: Confirm your backup phrase on the next screen by entering the words in the same order saved previously. Click ‘Confirm’ once done.

Confirm your Secret Backup Phrase

Please select each phrase in order to make sure it is correct.

- | | | | |
|---------|--------|-------|--------|
| always | carbon | entry | glove |
| invite | ladder | minor | prefer |
| replace | sight | six | tribe |

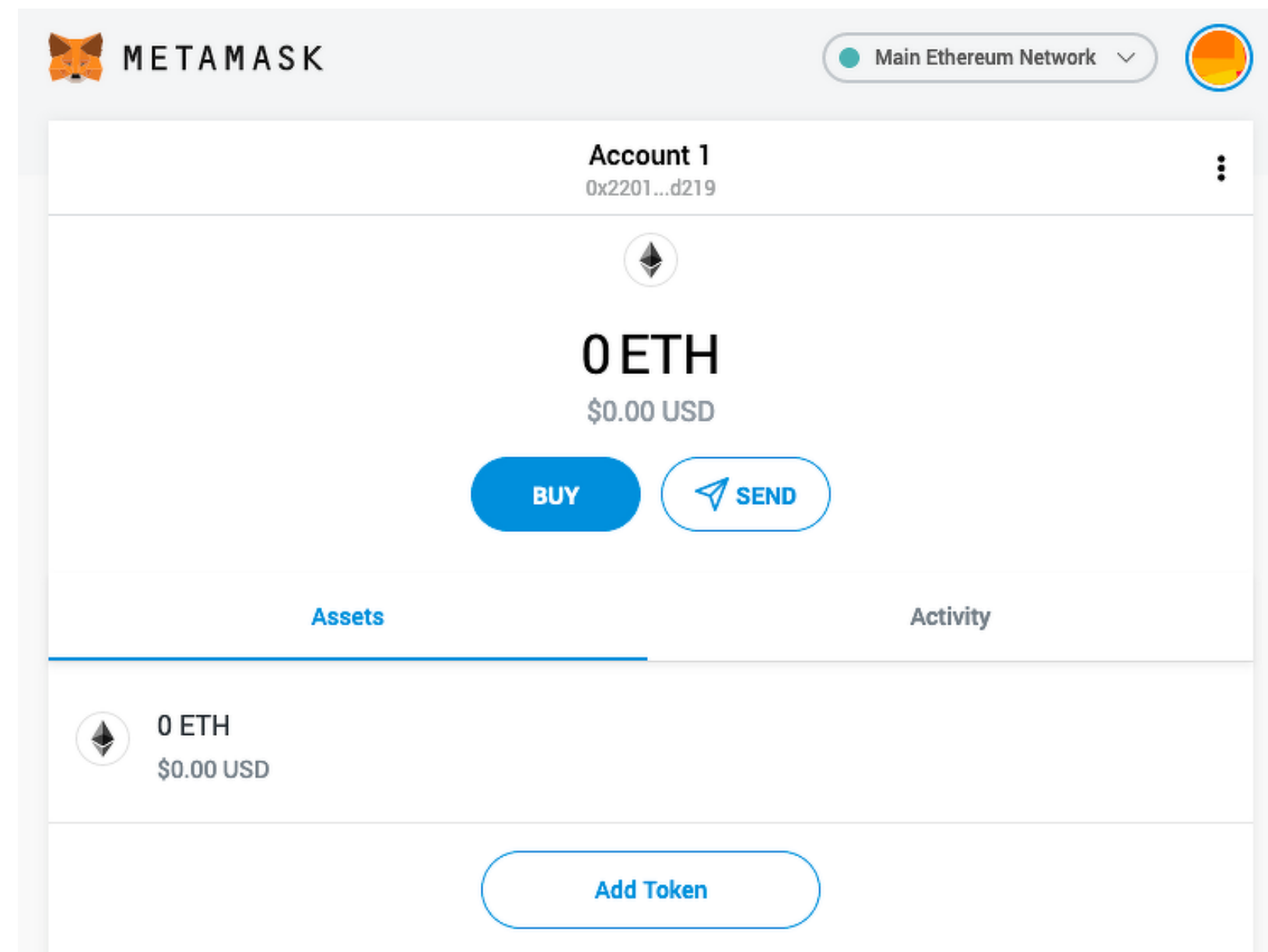
Installing Metamask



Step 12: Click 'All Done' on the final page, and you will be automatically logged in to MetaMask. If you ever get logged out, you'll be able to log back in again by clicking the icon added to your web browser (usually found next to the URL bar).

Installing Metamask

You will then be able to access your list of assets in the 'Assets' tab and view your transaction history in the 'Activity' tab. You will need \$eth to operate any transaction on Ethereum.

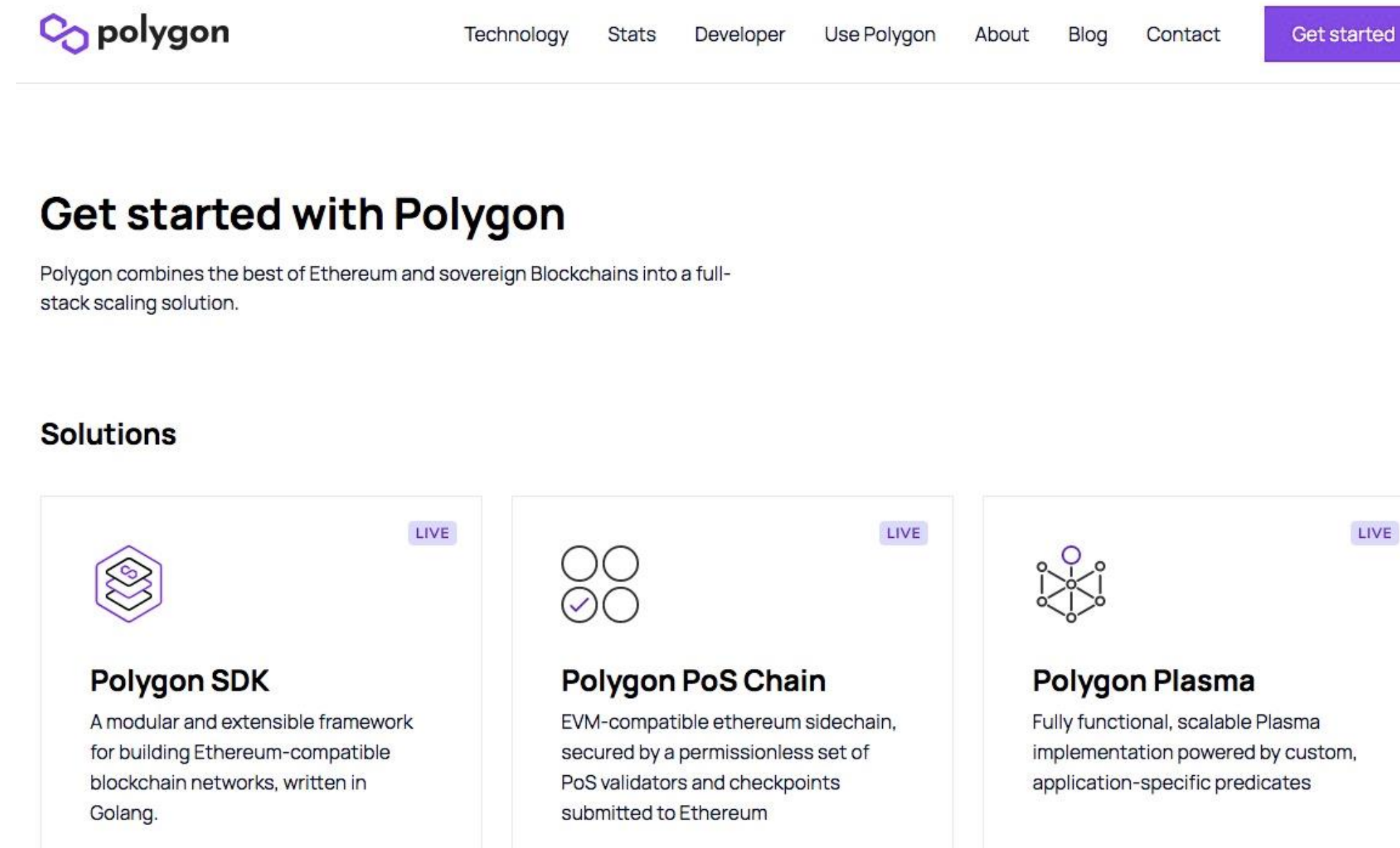


PART 2

Access Polygon Network

Access Polygon Network

- ◆ Polygon is a protocol and a framework for building and connecting Ethereum-compatible blockchain networks. Aggregating scalable solutions on Ethereum supporting a multi-chain Ethereum ecosystem.
- ◆ Polygon has been in the news for all the right reasons as it has been projected as the alternative to Ethereum as it resides on the same network and hence has all the advantages of Ethereum built into it but at the same time, with much lesser fees.



The screenshot shows the Polygon website's 'Get started with Polygon' page. The header includes the Polygon logo, navigation links (Technology, Stats, Developer, Use Polygon, About, Blog, Contact), and a 'Get started' button. The main heading is 'Get started with Polygon', followed by a subheading: 'Polygon combines the best of Ethereum and sovereign Blockchains into a full-stack scaling solution.' Below this is a 'Solutions' section with three cards, each marked 'LIVE' in a purple box:

- Polygon SDK**: A modular and extensible framework for building Ethereum-compatible blockchain networks, written in Golang.
- Polygon PoS Chain**: EVM-compatible ethereum sidechain, secured by a permissionless set of PoS validators and checkpoints submitted to Ethereum.
- Polygon Plasma**: Fully functional, scalable Plasma implementation powered by custom, application-specific predicates.

Access Polygon Network



Step 1: Go to <https://chainlist.org/> and click “Connect Wallet”.

Chainlist

Helping users connect to EVM powered networks

Chainlist is a list of EVM networks. Users can use the information to connect their wallets and Web3 middleware providers to the appropriate Chain ID and Network ID to connect to the correct chain.

Add Your Network +

View Source Code

Version 1.0.6

Search Networks ETH, Fantom, ...

Connect Wallet

Ethereum Mainnet

ChainID 1

Currency ETH

Connect Wallet

Expanse Network

ChainID 2

Currency EXP

Connect Wallet

Ethereum Testnet Ropsten

ChainID 3

Currency ROP

Connect Wallet

Ethereum Testnet Rinkeby

ChainID 4

Currency RIN

Connect Wallet

↻↻

Manage over 120 tokens and multi-chain assets with fully supported cross chain transactions.

Try out [multichain.xyz](#) →

Don't show again

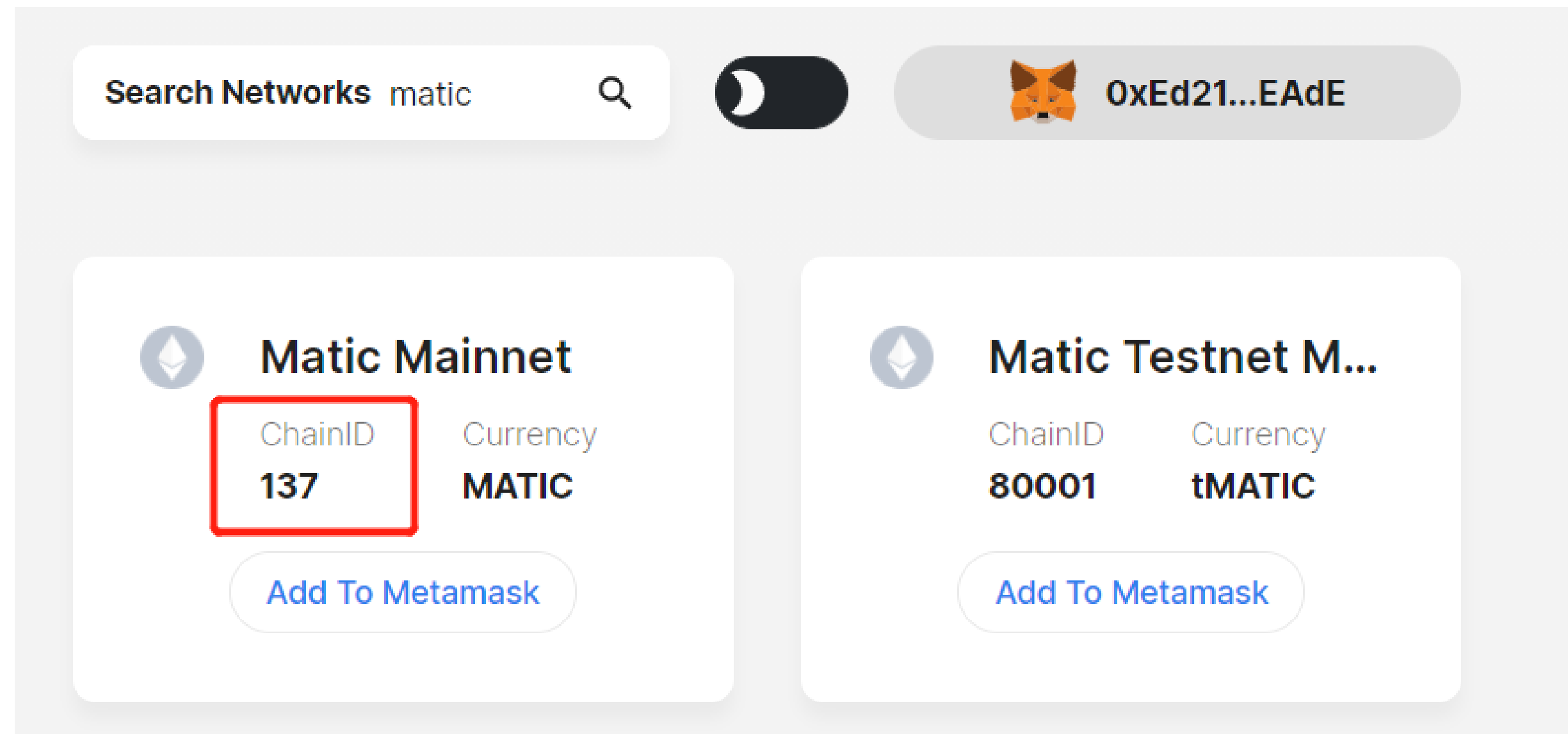
Close ×

Zero Volatility, Stable Return

20

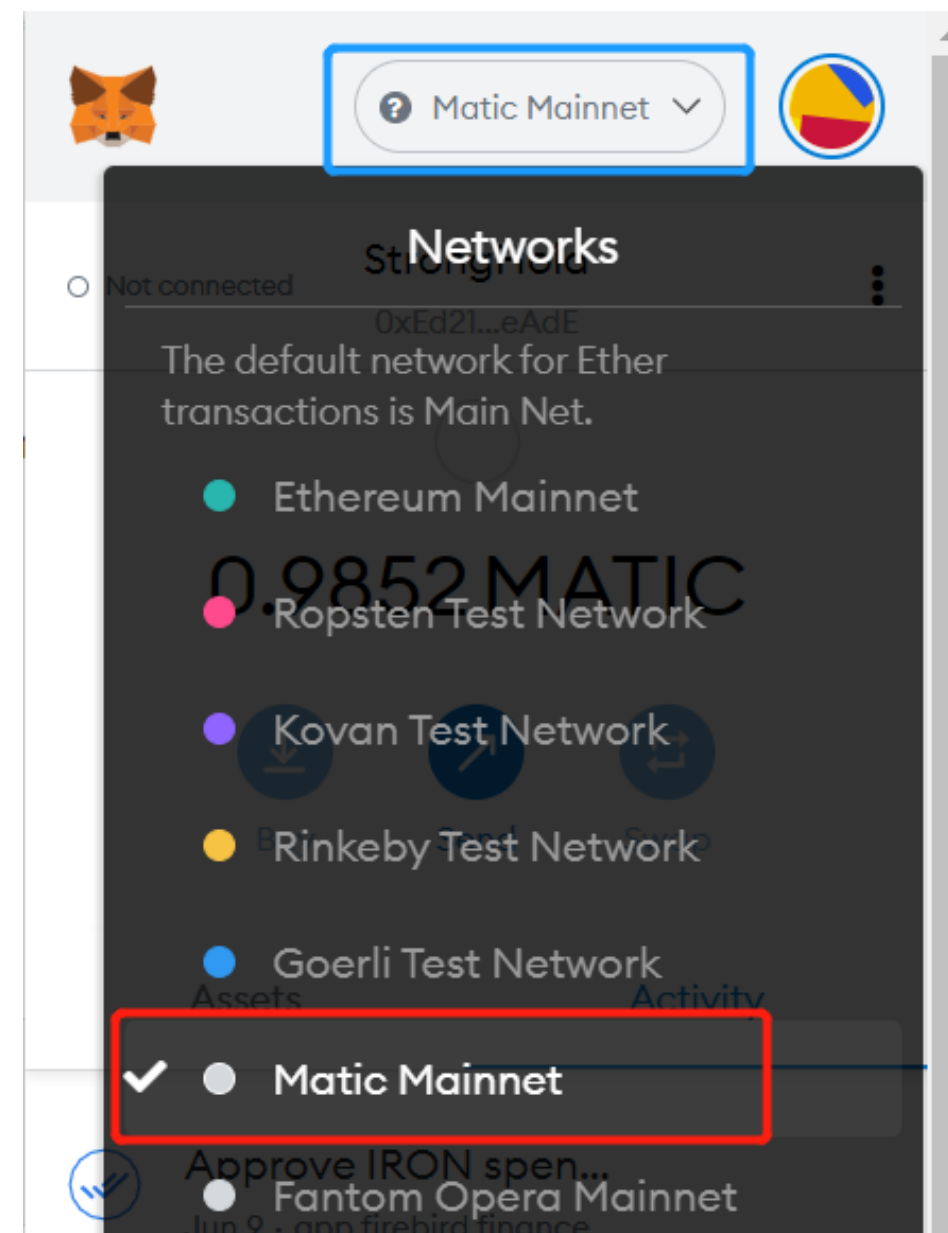
Access Polygon Network

Step 2: Search Matic (it's old name) and add to Metamask.



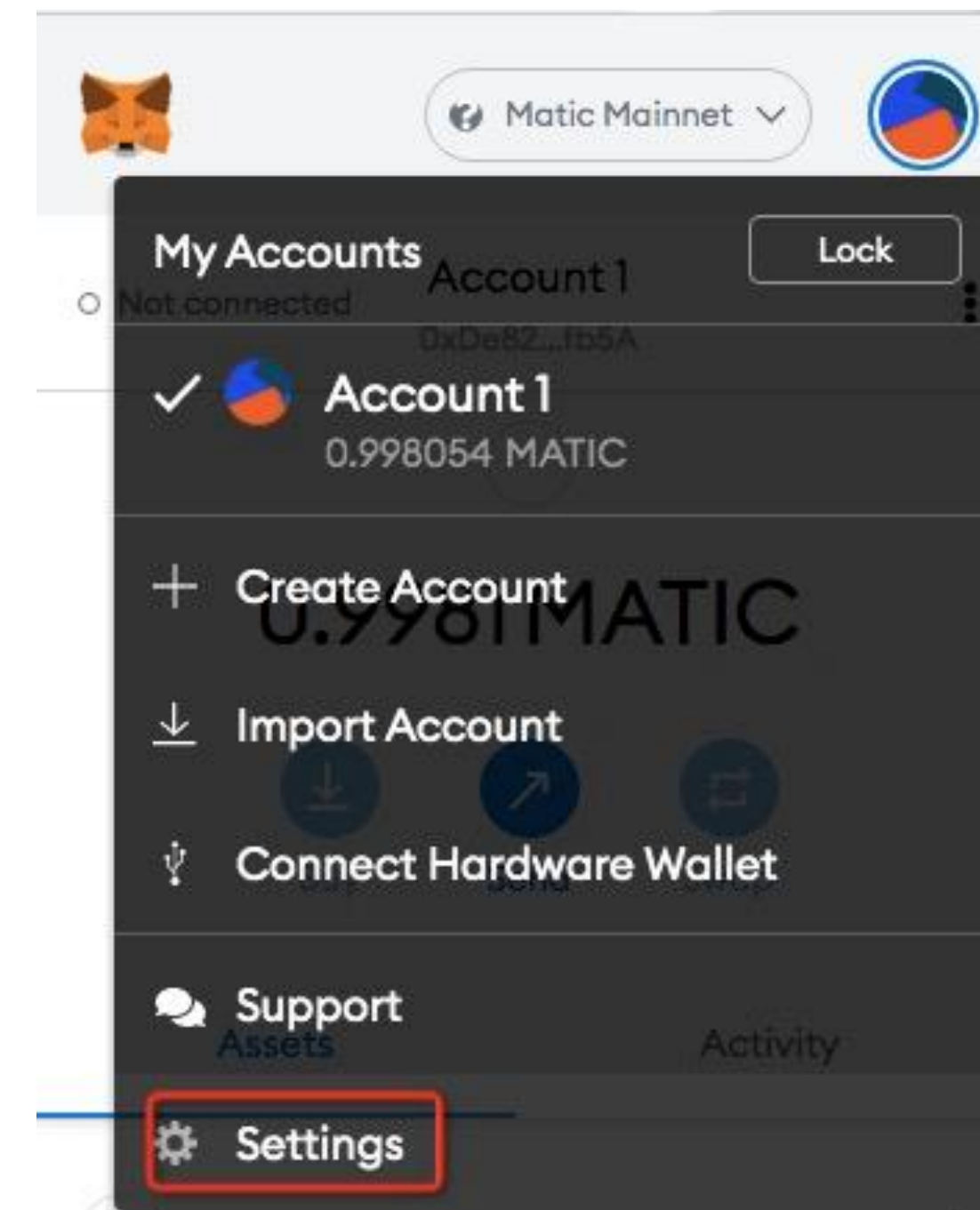
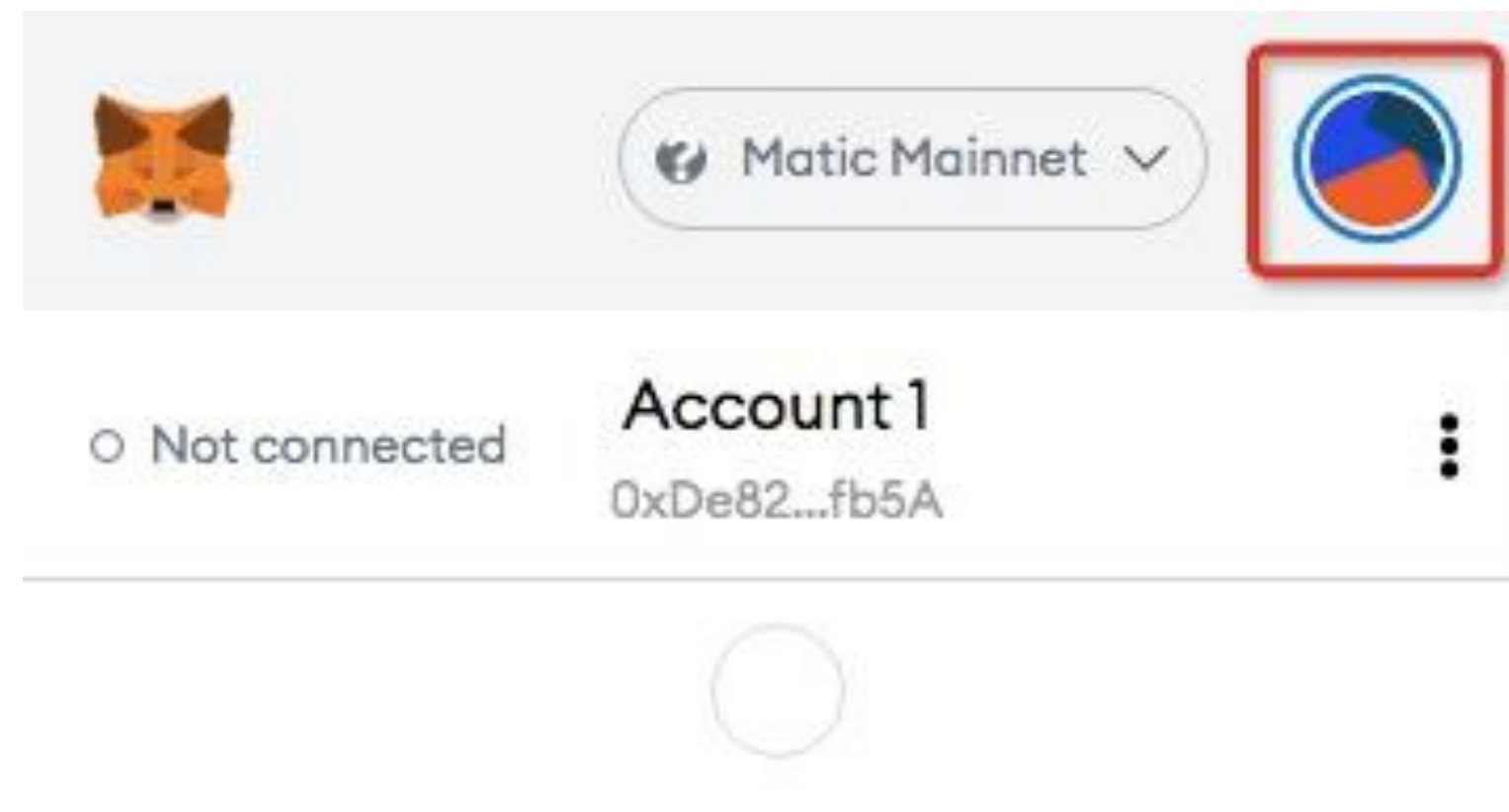
Access Polygon Network

Step 3: Go back to Metamask, change to Polygon (or called Matic) network.



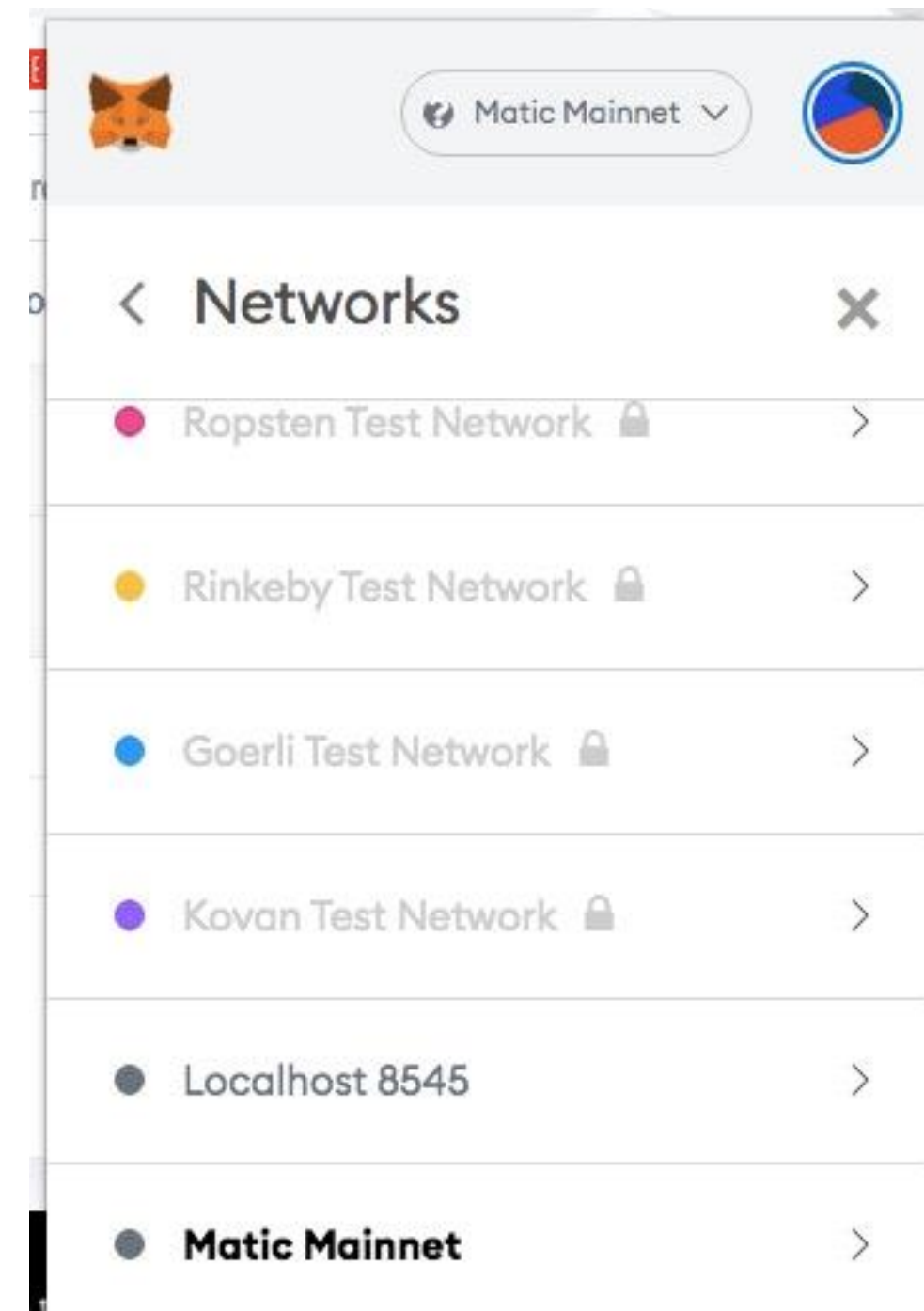
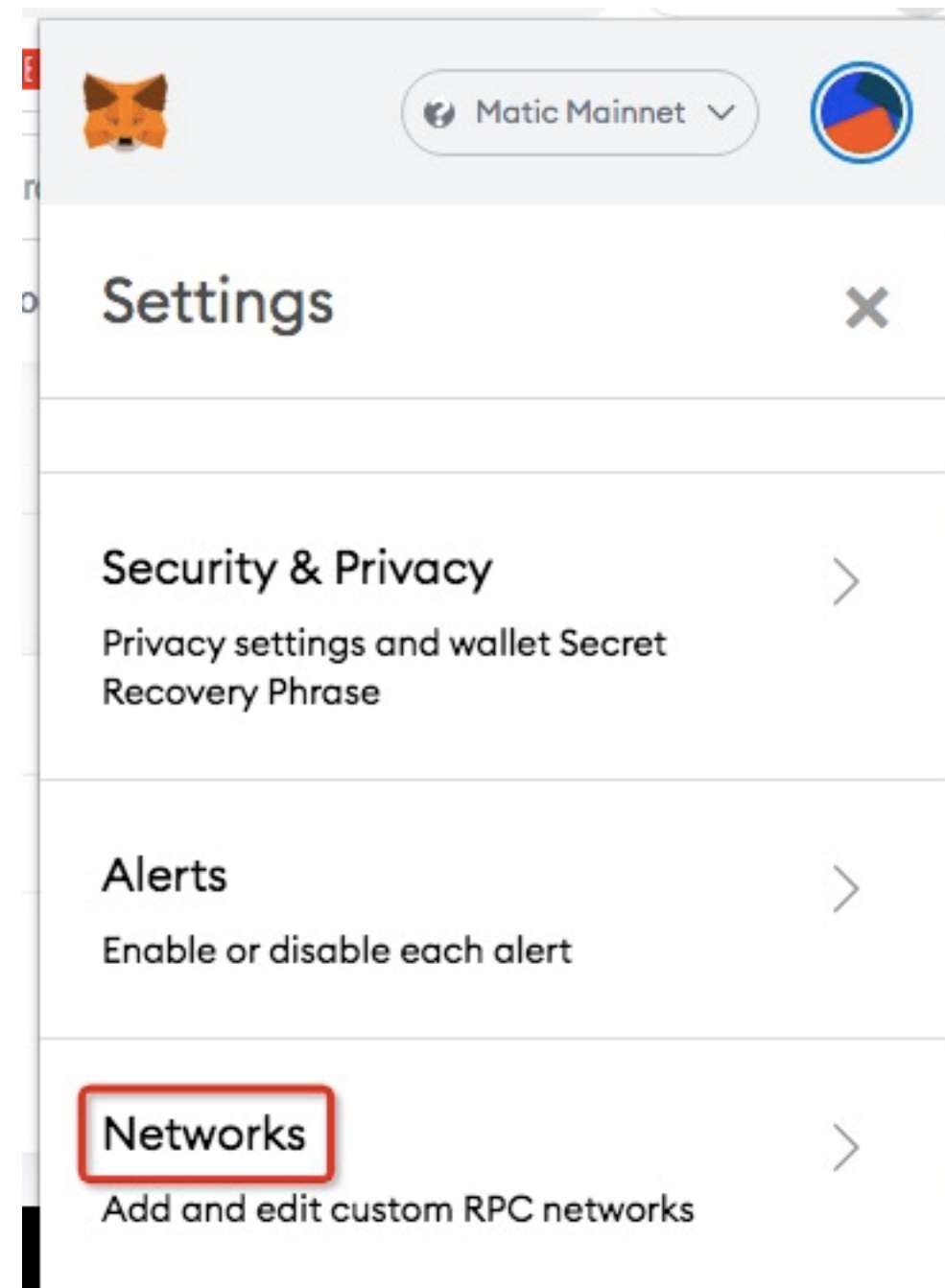
Access Polygon Network

Step 4: Click on the cricle on the top right corner and go to “Settings”.



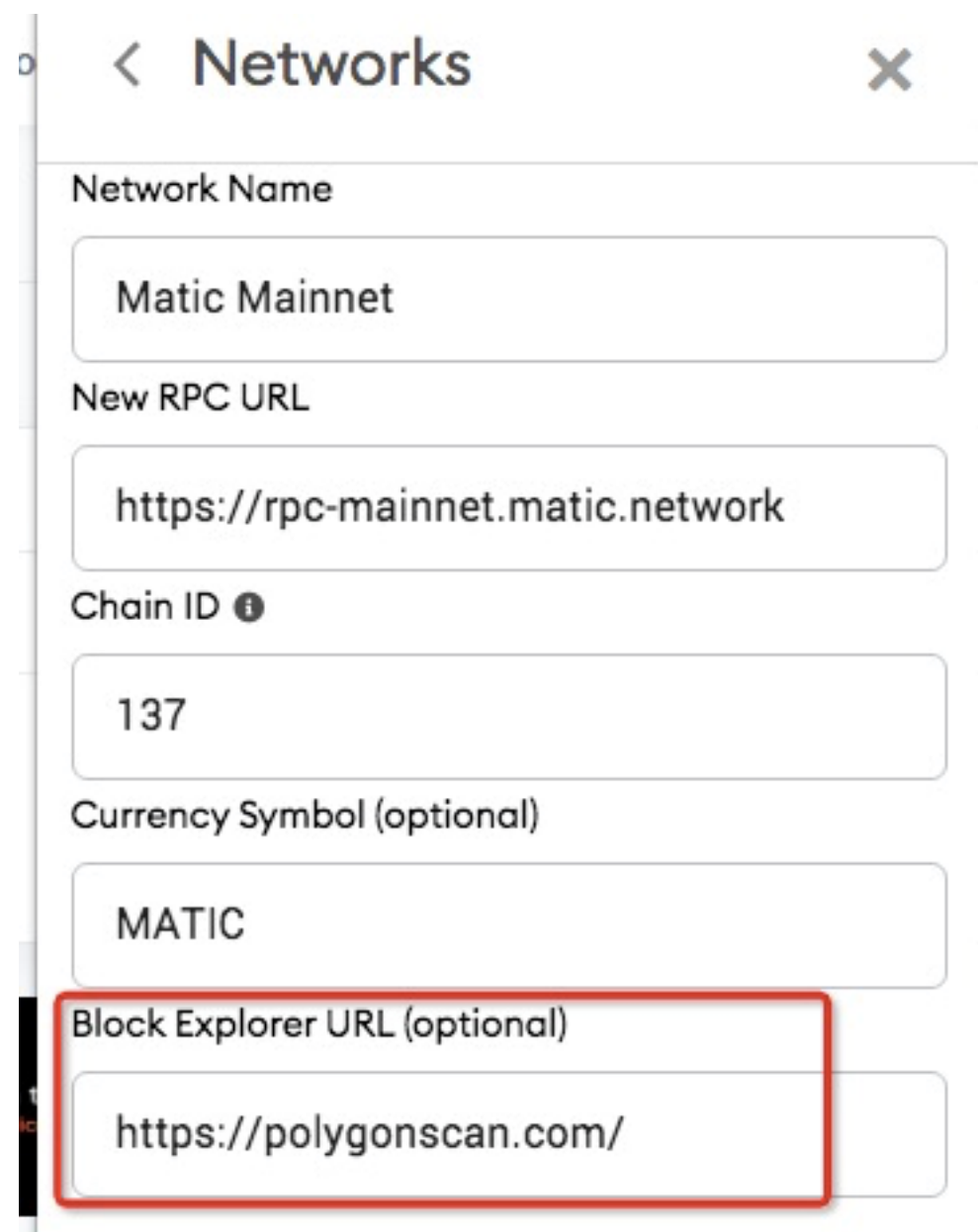
Access Polygon Network

Step 5: Go to “Networks” and click “Matic Mainnet”.



Access Polygon Network

Step 6: Copy <https://polygonscan.com/> and paste it into “Block Explorer URL”.



< Networks ×

Network Name

Matic Mainnet

New RPC URL

<https://rpc-mainnet.matic.network>

Chain ID ⓘ

137

Currency Symbol (optional)

MATIC

Block Explorer URL (optional)

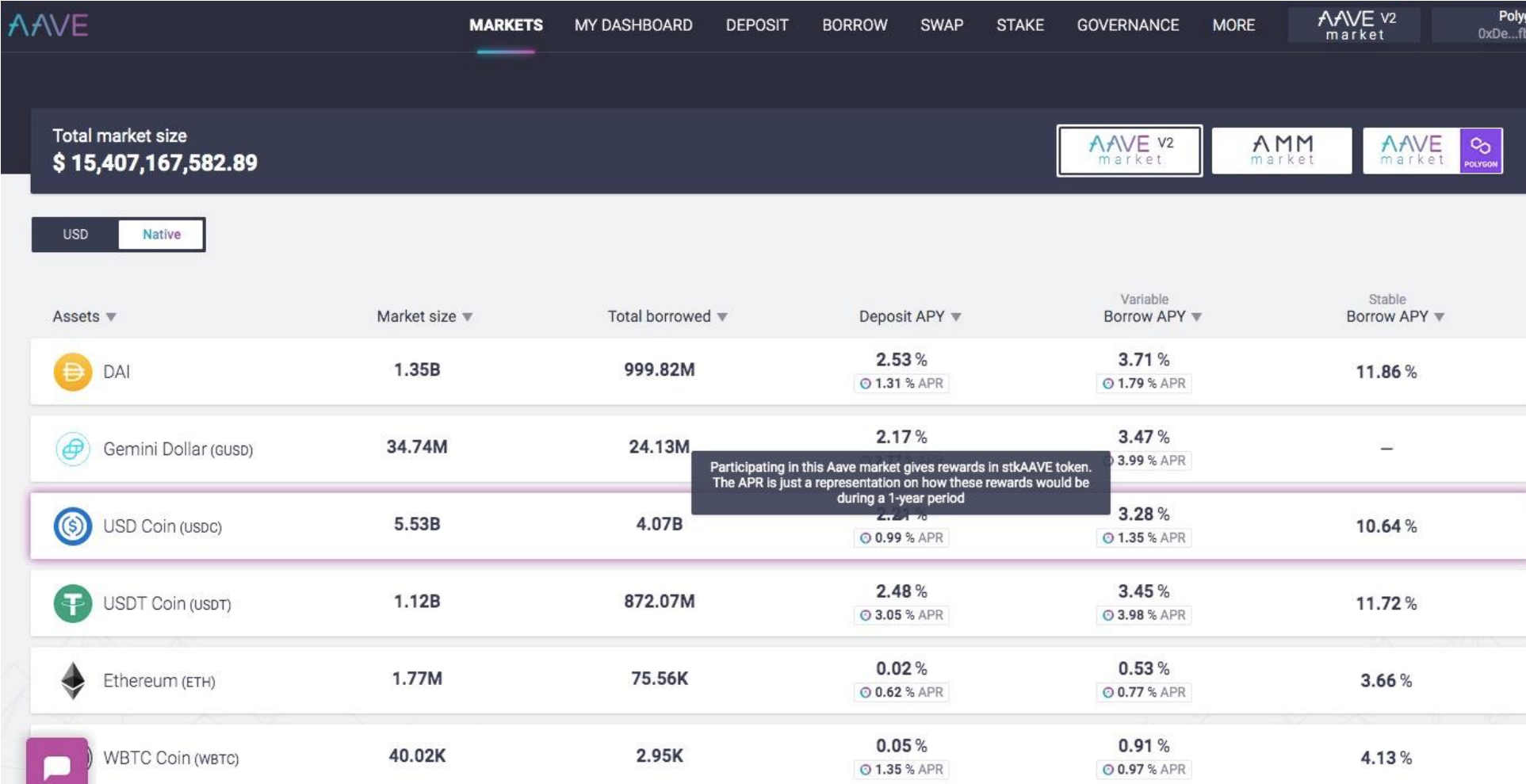
<https://polygonscan.com/>

PART 3

Playing with Defi - Aave

Playing with Defi - Aave

- ◆ Aave Finance is one of the largest decentralised finance platform by Total Value Locked (“TVL”, i.e. assets deposited into the platform) and is one of the cornerstone of the De-Fi industry.
- ◆ Aave is equivalent to a commercial bank in the De-Fi ecosystem, and Aave users can participate as money depositors or loan borrowers.
- ◆ Depositors provide cryptocurrency liquidity to the market to earn a passive interest income, while borrowers are able to borrow a collateralised loan or a flash loan, a unique De-Fi concept.

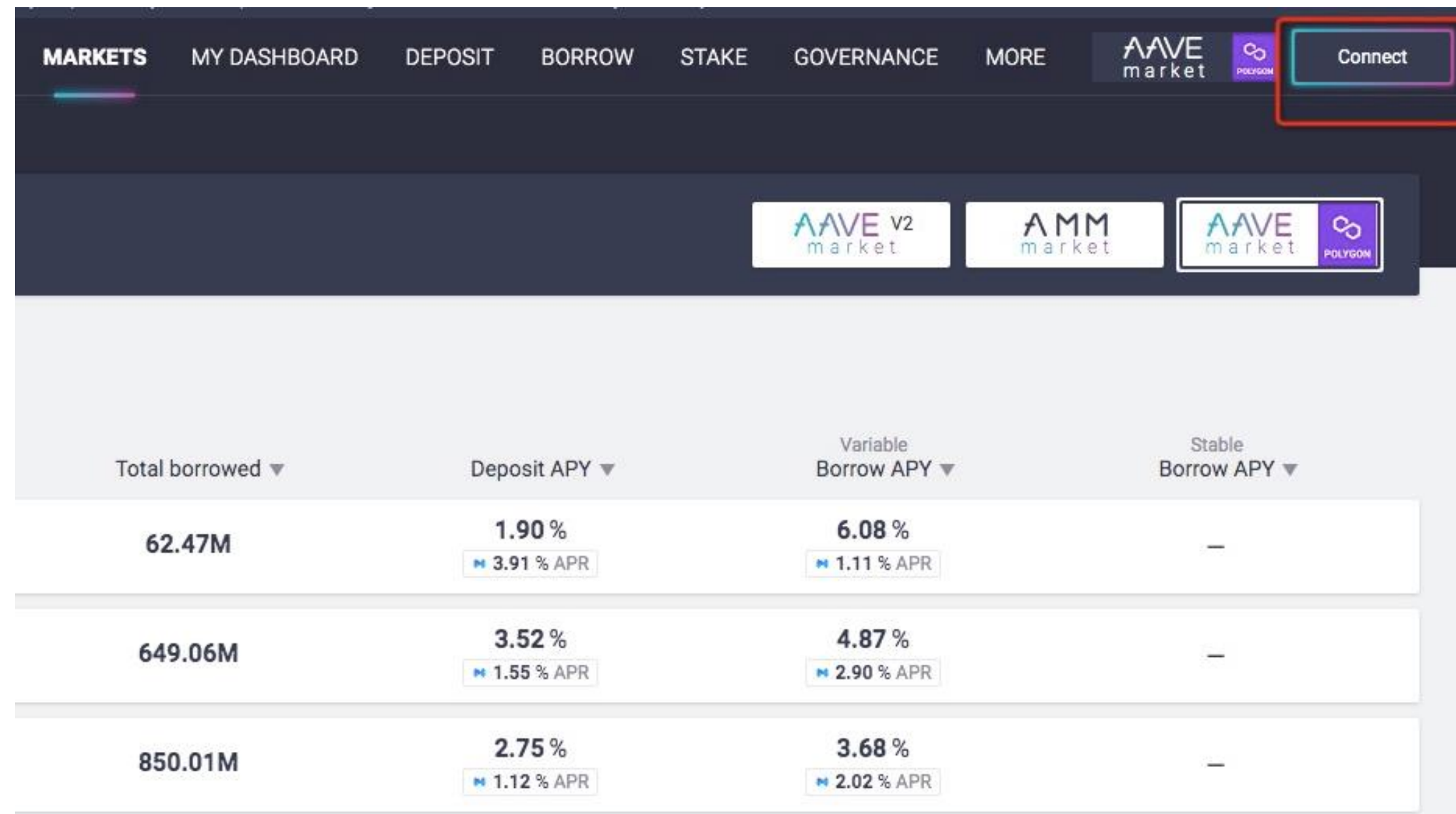


The screenshot shows the Aave Markets interface. At the top, the total market size is \$15,407,167,582.89. Below this, there's a table of assets with columns for Assets, Market size, Total borrowed, Deposit APY, Variable Borrow APY, and Stable Borrow APY. The assets listed are DAI, Gemini Dollar (GUSD), USD Coin (USDC), USDT Coin (USDT), Ethereum (ETH), and WBTC Coin (WBTC). The USDC row is highlighted with a pink border. A tooltip is visible over the USDC row, stating: "Participating in this Aave market gives rewards in stkAAVE token. The APR is just a representation on how these rewards would be during a 1-year period."

Assets	Market size	Total borrowed	Deposit APY	Variable Borrow APY	Stable Borrow APY
DAI	1.35B	999.82M	2.53 % 1.31 % APR	3.71 % 1.79 % APR	11.86 %
Gemini Dollar (GUSD)	34.74M	24.13M	2.17 %	3.47 % 3.99 % APR	—
USD Coin (USDC)	5.53B	4.07B	3.28 % 0.99 % APR	3.28 % 1.35 % APR	10.64 %
USDT Coin (USDT)	1.12B	872.07M	2.48 % 3.05 % APR	3.45 % 3.98 % APR	11.72 %
Ethereum (ETH)	1.77M	75.56K	0.02 % 0.62 % APR	0.53 % 0.77 % APR	3.66 %
WBTC Coin (WBTC)	40.02K	2.95K	0.05 % 1.35 % APR	0.91 % 0.97 % APR	4.13 %

Playing with Defi - Aave

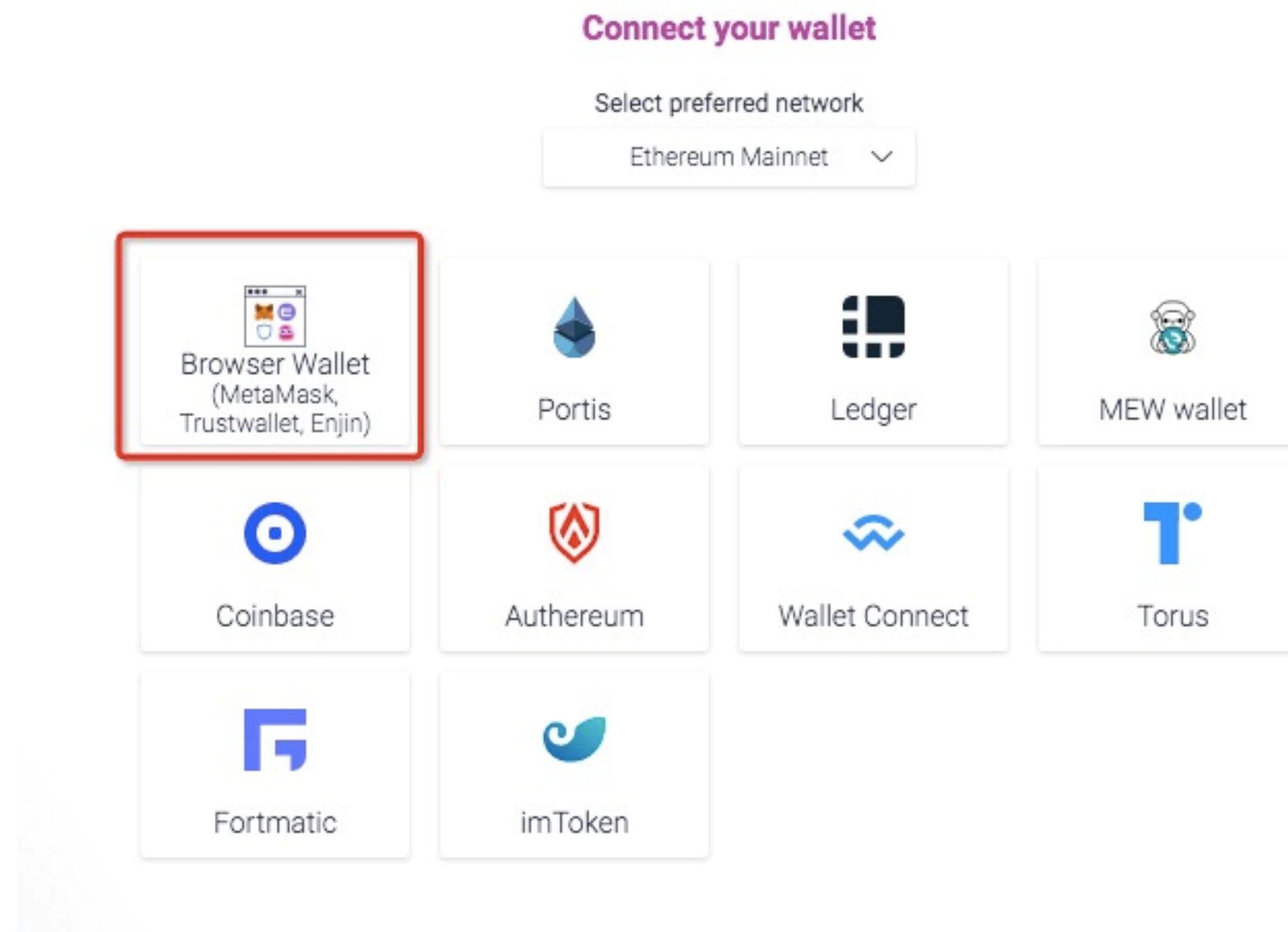
Step 1: Go to <https://app.aave.com/markets> and click “Connect” to connect your Metamask Wallet.



Total borrowed ▼	Deposit APY ▼	Variable Borrow APY ▼	Stable Borrow APY ▼
62.47M	1.90 % 3.91 % APR	6.08 % 1.11 % APR	—
649.06M	3.52 % 1.55 % APR	4.87 % 2.90 % APR	—
850.01M	2.75 % 1.12 % APR	3.68 % 2.02 % APR	—






Playing with Defi - Aave

Step 2: Choose “Browser Wallet”.



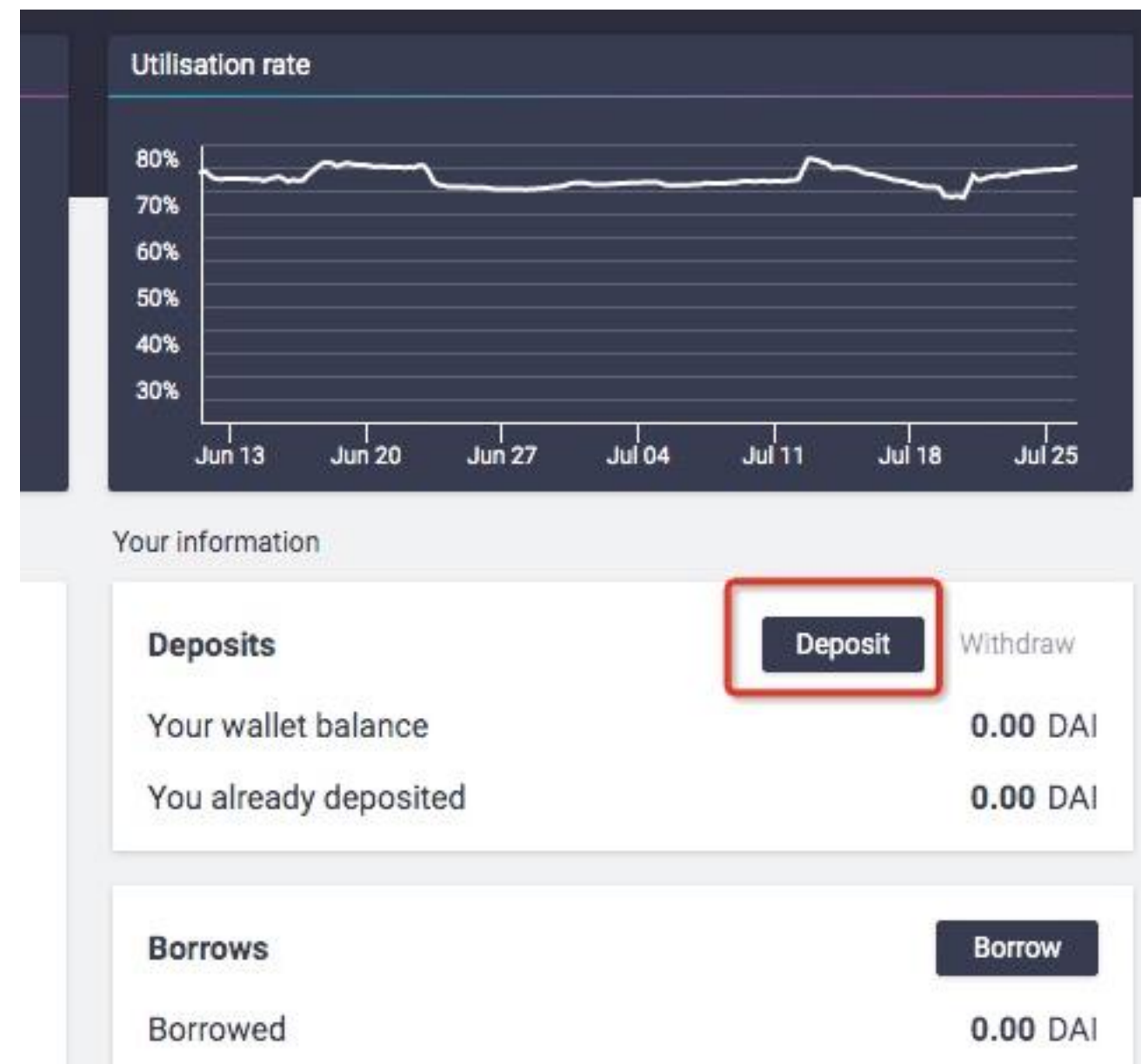
Playing with Defi - Aave

Step 3: If you want to lend on Aave, you may click on any cryptocurrency that you prefer to deposit.

Total market size \$ 3,690,040,043.07			
USD Native			
Assets ▼	Market size ▼	Total borrowed ▼	Deposit APY ▼
 Matic (MATIC)	159.95M	62.47M	1.90 % 3.91 % APR
 DAI	808.98M	648.96M	3.48 % 1.55 % APR
 USD Coin (usdc)	1.03B	849.93M	2.75 % 1.12 % APR
 USDT Coin (usdt)	163.12M	146.69M	3.24 % 2.80 % APR
 Wrapped ETH (weth)	438.63K	43.75K	0.11 % 1.24 % APR

Playing with Defi - Aave

Step 4: Click “Deposit”.




Playing with Defi - Aave



Step 5: Click “Continue” after you key in the amount that you want to deposit.

How much would you like to deposit?
Please enter an amount you would like to deposit. The maximum amount you can deposit is shown below.

Available to deposit **6.336005** USDC

 Amount

MAX

Continue

Playing with Defi - Aave



Step 6: Click “Approve” and click “Confirm” on Metamask.

Deposit overview

These are your transaction details. Make sure to check if this is correct before submitting.

Amount	1 USDC \$ 0.9952
Collateral Usage	Yes
New health factor	1.12

1 Approve

2 Deposit

3 Finished

1/3 Approve
Please approve before depositing

Approve

Allow [Https://app.aave.com](https://app.aave.com) to spend your USDC?

Do you trust this site? By granting this permission, you're allowing [Https://app.aave.com](https://app.aave.com) to withdraw your USDC and automate transactions for you.

[Edit Permission](#)

Transaction Fee [Edit](#)

A fee is associated with this request.

\$0.00
0.0011 MATIC

[View full transaction details](#)

Reject


Confirm

Playing with Defi - Aave

Step 7: Click “Deposit” and click “Confirm” on Metamask.

Deposit overview

These are your transaction details. Make sure to check if this is correct before submitting.

Amount	 1 USDC \$ 0.99506
Collateral Usage	Yes
New health factor	1.12

1 Approve

2 Deposit


3 Finished


2/3 Deposit

Please submit to deposit

Deposit

Approve

Confirmed 

Explorer 



https://app.aave.com

DEPOSIT

0

DETAILS DATA

GAS FEE **0.0011**
No Conversion Rate Available

Gas Price (GWEI)  Gas Limit 
1.1 1000000

AMOUNT + GAS FEE

TOTAL **0.0011**
No Conversion Rate Available

Reject Confirm

Playing with Defi - Aave



You have successfully deposited your cryptocurrency on Aave. You may go to “Dashboard” to check your account.

Congrats!

Your action has been successfully executed

Amount	1 USDC \$ 0.99506
Collateral Usage	Yes
New health factor	1.18

1 Approve	2 Deposit	3 Finished
3/3 Success!		Dashboard
Approve	Confirmed	Explorer
Deposit	Confirmed	Explorer

THANK YOU

Welcome to De-fi world!