

Blockchains: Fundamentals And Applications (2022)

by IITM-Pravartak

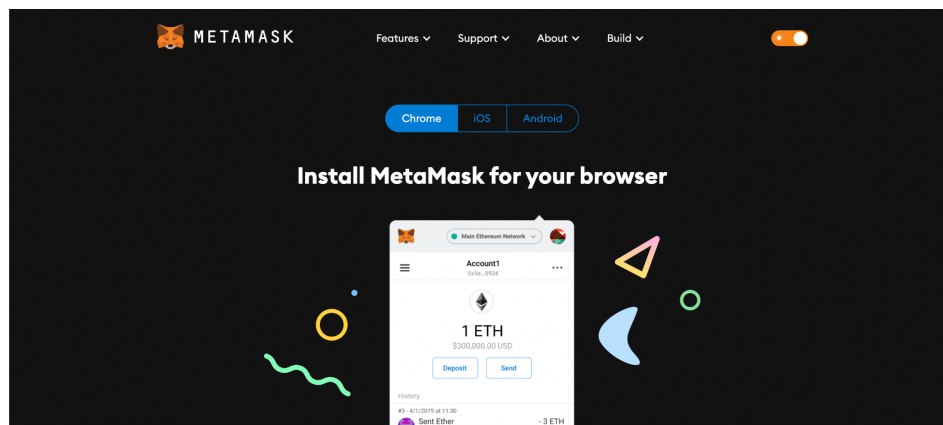
Installation document for Ethereum (Module 2)

Part 1: Install Metamask Wallet

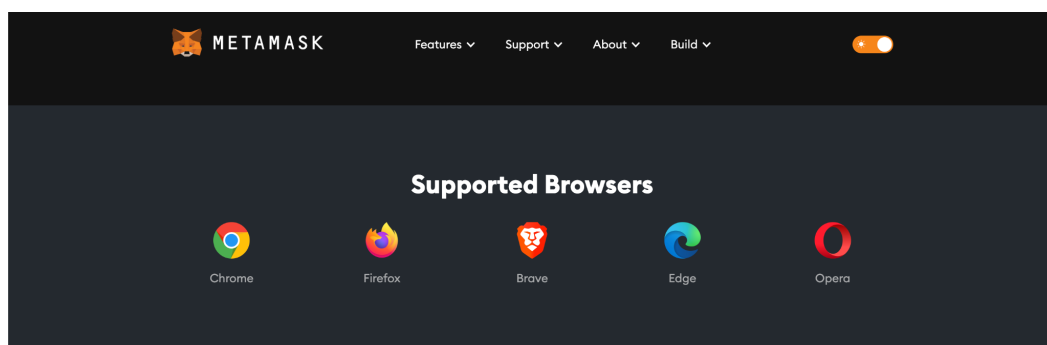
Metamask is a crypto wallet that equips you with a key vault, secure login, token wallet and token exchange to manage your digital asset.

- It is available as a browser extension and can be downloaded from link below:

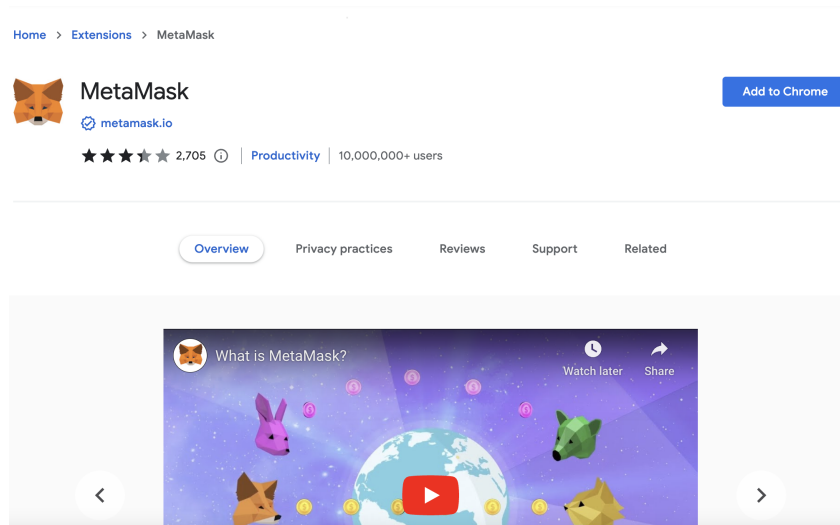
<https://metamask.io/download/>



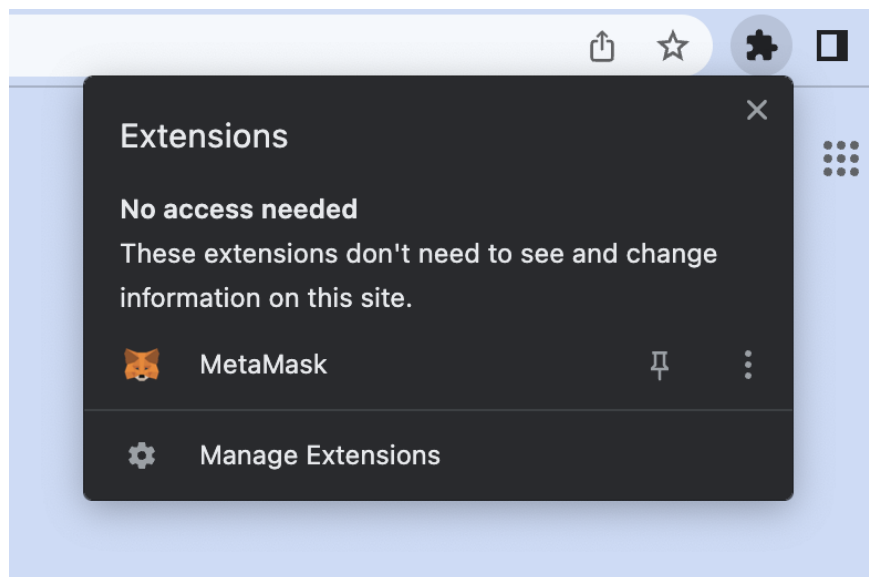
- It is preferable to use chrome web browser for installation. However, if you prefer to use it in other browsers, follow the instructions in the metamask downloads page.



- Add Extension to browser

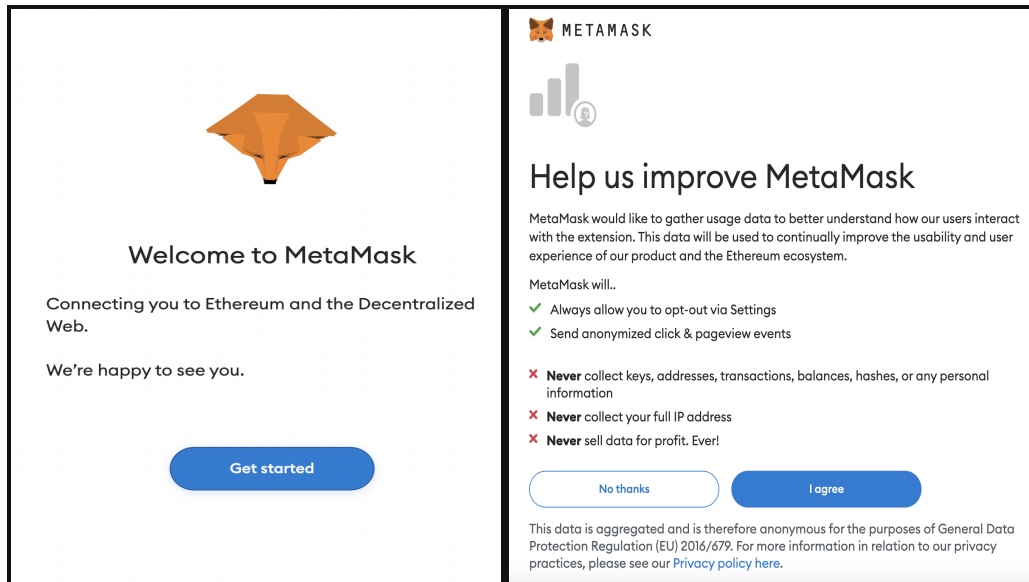


- View Metamask extension in your browser. You can pin metamask for easy access

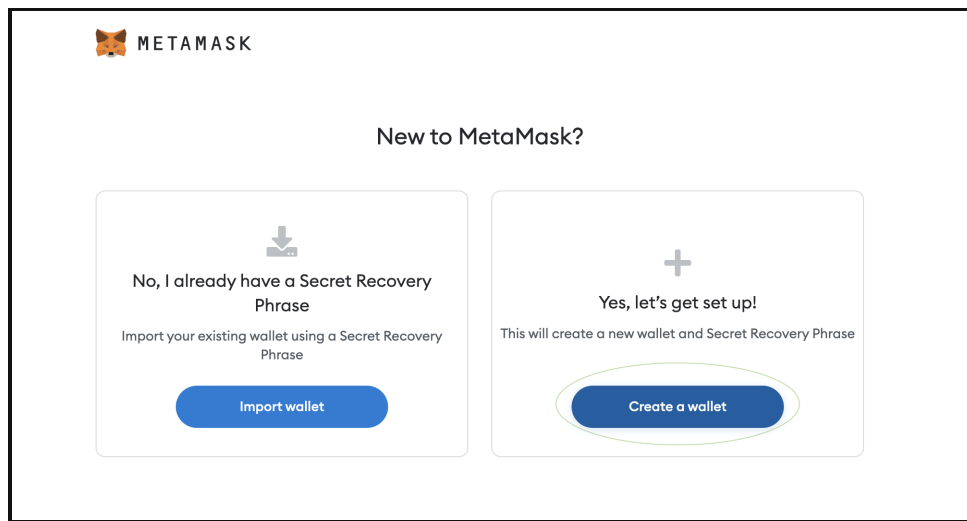


- **Get Started with Metamask**

Follow the instructions given.



If you don't have an existing Metamask wallet, click on the create a wallet button.



Create a strong password and save it.



Create password

New password (8 characters min)

Confirm password

☐

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

Create

- **Secret Recovery Phrase**

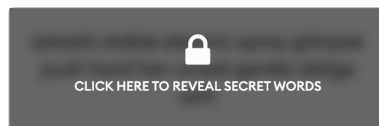
You will be asked to reveal your secret recovery phrase. Store the 12 word seed phrase carefully and do not share it with anyone!



Secret Recovery Phrase

Your Secret Recovery Phrase makes it easy to back up and restore your account.

WARNING: Never disclose your Secret Recovery Phrase. Anyone with this phrase can take your Ether forever.



[Remind me later](#)

[Next](#)

Tips:

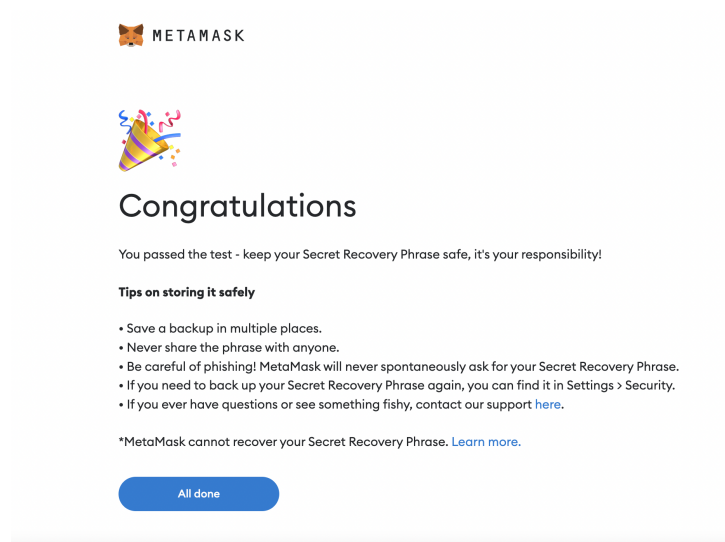
Store this phrase in a password manager like 1Password.

Write this phrase on a piece of paper and store in a secure location. If you want even more security, write it down on multiple pieces of paper and store each in 2 - 3 different locations.

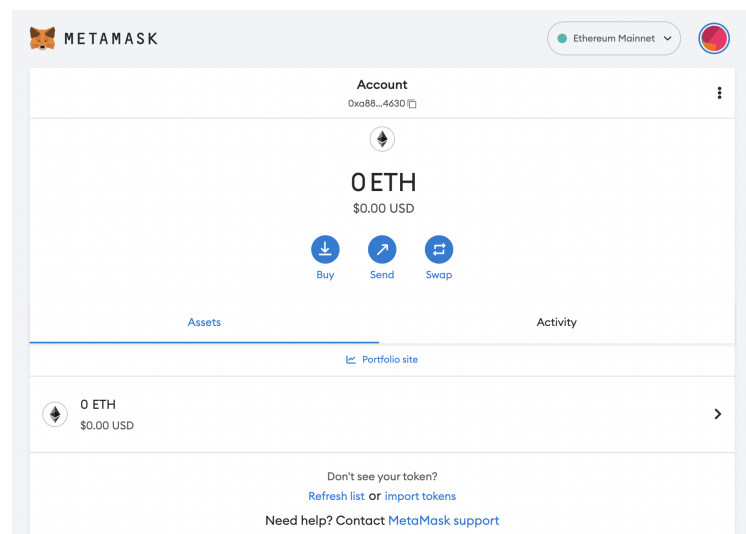
Memorize this phrase.

[Download this Secret Recovery Phrase and keep it stored safely on an external encrypted hard drive or storage medium.](#)

You have successfully installed Metamask.



After installing, you can view the below screen where the wallet details will be displayed.



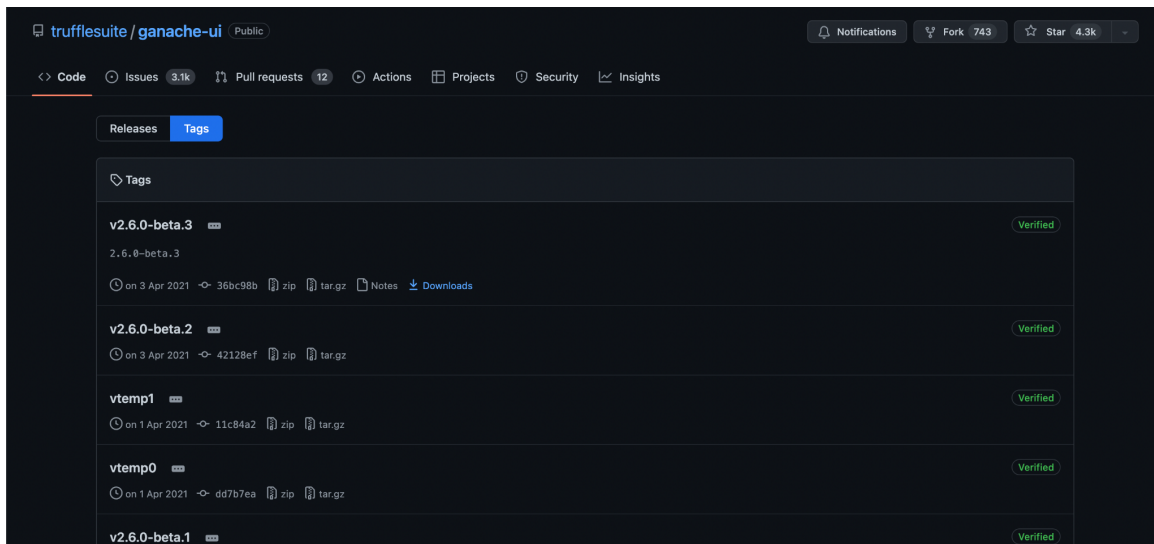
Part 2: Install Ganache

Ganache is a local testnet for Ethereum.

Download and Install Ganache from the below link:

<https://github.com/trufflesuite/ganache-ui/tags>

- Click on the download button of the latest version.



- Scroll down the page to **Assets** section

Assets 12		
ganache-2.6.0-beta.3-linux-x86_64.AppImage	186 MB	03 Apr 2021
Ganache-2.6.0-beta.3-mac.dmg	285 MB	03 Apr 2021
Ganache-2.6.0-beta.3-mac.dmg.blockmap	305 KB	03 Apr 2021
Ganache-2.6.0-beta.3-mac.zip	303 MB	03 Apr 2021
Ganache-2.6.0-beta.3-win-setup.exe	236 MB	03 Apr 2021
Ganache-2.6.0-beta.3-win-setup.exe.blockmap	216 KB	03 Apr 2021
Ganache-2.6.0-beta.3-win-x64.appx	343 MB	03 Apr 2021
latest-linux.yml	413 Bytes	03 Apr 2021
latest-mac.yml	544 Bytes	03 Apr 2021
latest.yml	372 Bytes	03 Apr 2021
Source code (zip)		03 Apr 2021
Source code (tar.gz)		03 Apr 2021

Download the suitable file for your Operation system and follow installation directions.

- **Windows**
 - Download Ganache-*.appx
 - Open and Install the application
- **Mac**
 - Download Ganache-*.dmg
 - Open the dmg file and drag the application from DMG window to application
- **Linux**
 - Download ganache-*.ApplImage
 - Right click on downloaded file and go to properties
 - In permissions tab, enable the option “Allow executing file as program”
 - Double click on the ApplImage file to open Ganache.

Further instructions on how to use the Metamask wallet and Ganache will be discussed in the hands-on sessions.

Part 3: Remix IDE

For smart contract development, we will be using Remix web based IDE. You can familiarize yourself with the interface here:

<https://remix.ethereum.org/>