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Sebastian

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Learn Full Stack Ethereum Development — Part 3

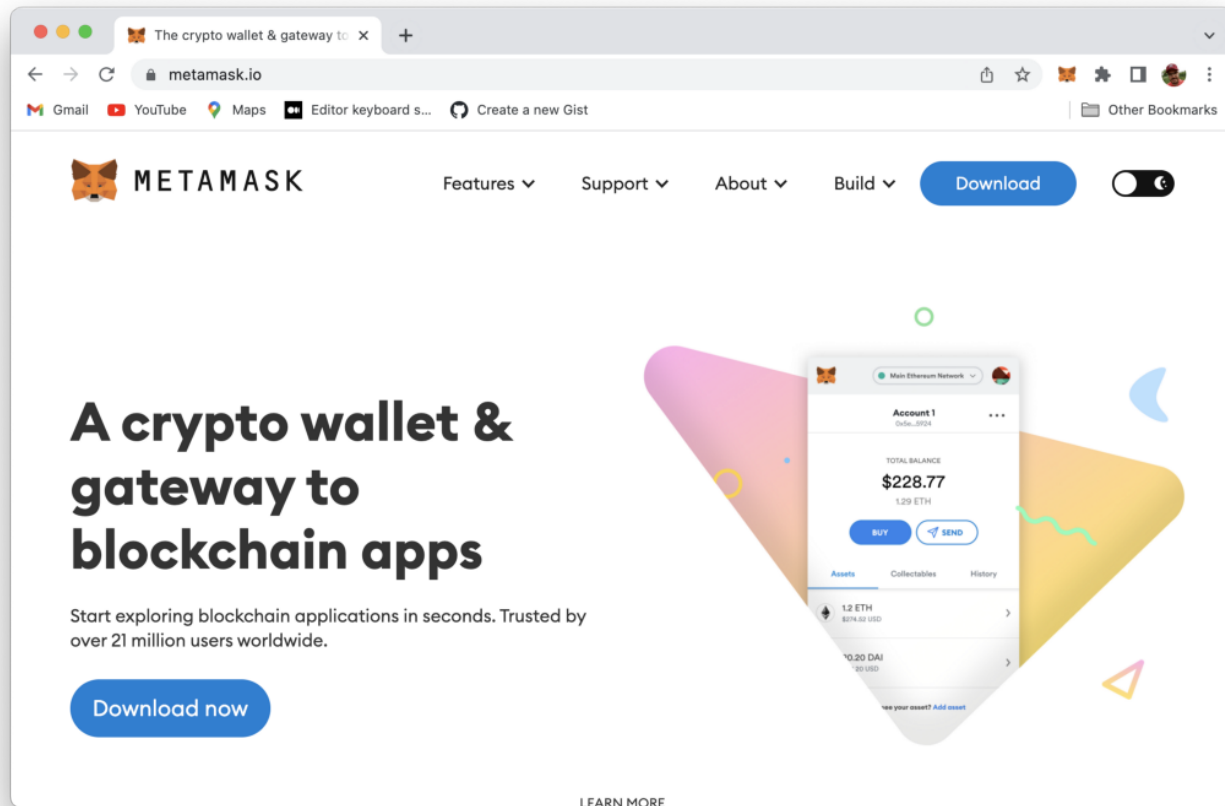
Installing And Setting Up MetaMask

Welcome to the third part of the *Learn Full Stack Ethereum Development* series. In the last part we've used Hardhat to deploy a first sample Smart Contract to the local Ethereum blockchain.





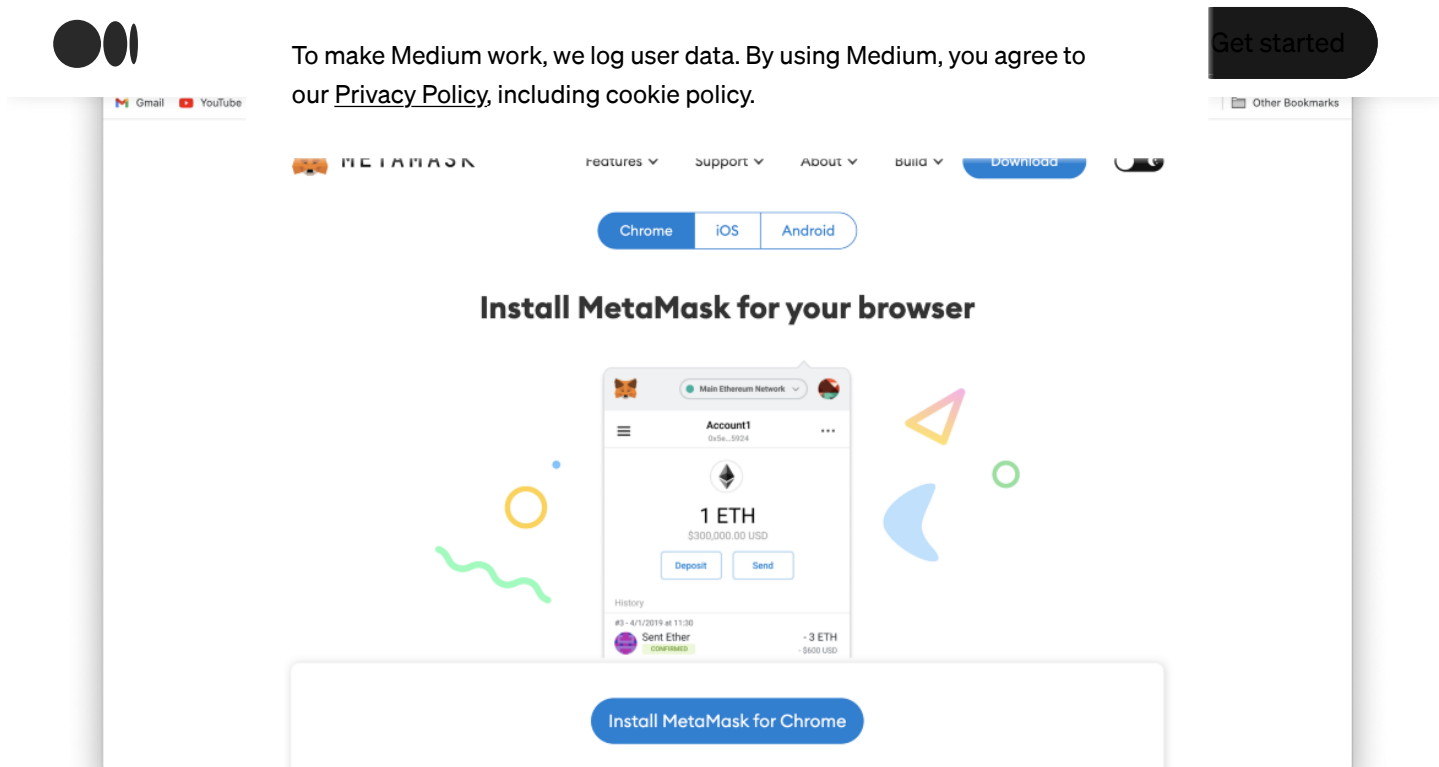
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You can get MetaMask from the website <https://metamask.io/>

For this tutorial it is assumed that you're MetaMask within Chrome. To install MetaMask you can directly click on the button *Download now*. This takes you to the website you can see in the following screenshot:





Install MetaMask for Chrome by clicking on the button

Click on button *Install MetaMask for Chrome* and follow the installation instructions. To complete the installation of MetaMask you need to create a password and finally a secret backup phrase is provided. You should keep this secret backup phrase at a safe place. By using this backup phrase you're able to restore your wallet (e.g. after a new installation).

Once MetaMask is installed you can access the plugin by clicking on the fox symbol in Chrome's extension bar:





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Localhost 8545



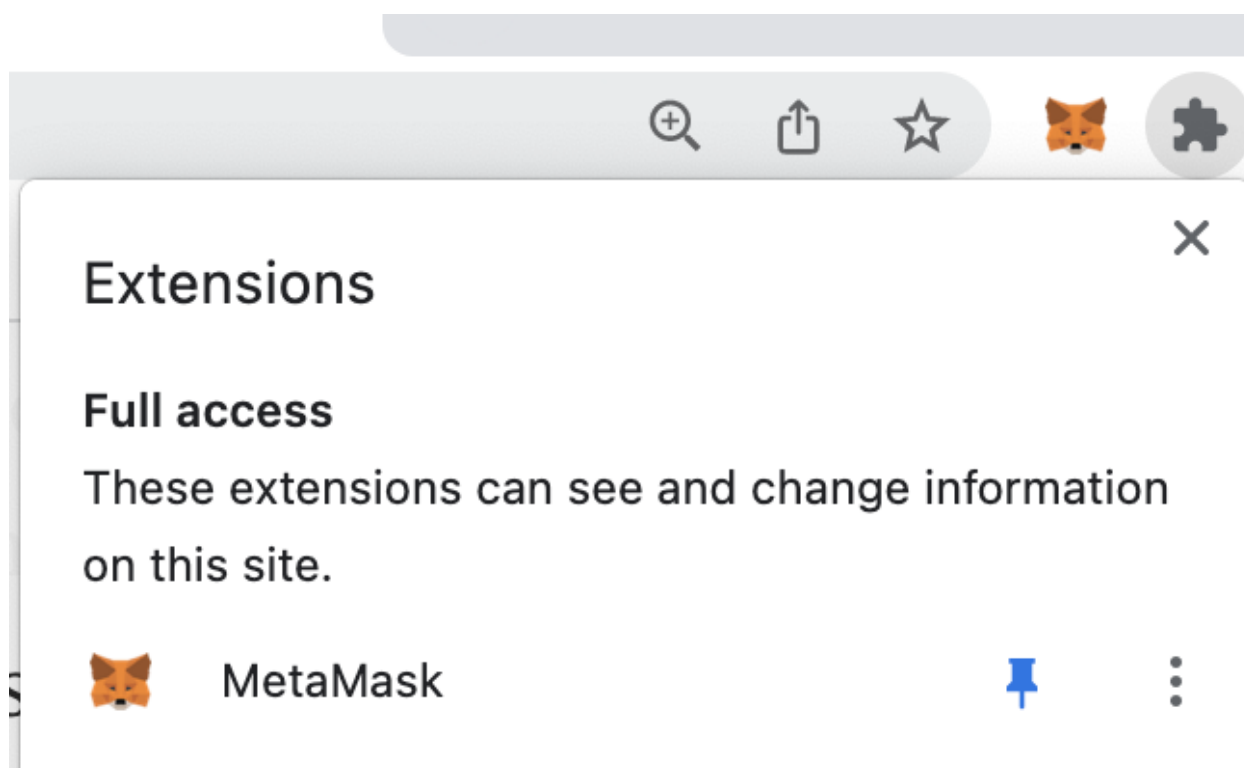
Not connected

Account 1



MetaMask runs as a Chrome extension

If this symbol is not visible by default you need to open the extension menu and pin MetaMask to the extension bar by using the pin symbol on the right side:



Pin the MetaMask symbol to the extension bar

Choose Network In MetaMask

Once the MetaMask browser extension is installed you can open in by clicking on the symbol





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Networks

○ Not connected

Account 2
0xf39...2266

● Ethereum Mainnet



● Ropsten Test Network

9999.9996 ETH

● Kovan Test Network

● Rinkeby Test Network

● Goerli Test Network

✓ ● Localhost 8545

Assets

Activity

Add Network



9999.9996 ETH





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```
$ npx hardhat node
```

Import Test Account Into MetaMask

When starting the Hardhat server process you're getting a list of 20 test accounts which can be used to interact with the blockchain. Let's add one of those test accounts to MetaMask.

```
my-react-dapp git:(master) x npx hardhat node
Started HTTP and WebSocket JSON-RPC server at http://127.0.0.1:8545/

Accounts
=====

WARNING: These accounts, and their private keys, are publicly known.
Any funds sent to them on Mainnet or any other live network WILL BE LOST.

Account #0: 0xf39fd6e51aad88f6f4ce6ab8827279cfffb92266 (10000 ETH)
Private Key: 0xac0974bec39a17e36ba4a6b4d238ff944bacb478cbed5efcae784d7bf4f2ff80

Account #1: 0x70997970c51812dc3a010c7d01b50e0d17dc79c8 (10000 ETH)
Private Key: 0x59c6995e998f97a5a0044966f0945389dc9e86dae88c7a8412f4603b6b78690d

Account #2: 0x3c44cdddb6a900fa2b585dd299e03d12fa4293bc (10000 ETH)
Private Key: 0x5de4111afa1a4b94908f83103eb1f1706367c2e68ca870fc3fb9a804cdab365a

Account #3: 0x90f79bf6eb2c4f870365e785982e1f101e93b906 (10000 ETH)
Private Key: 0x7c852118294e51e653712a81e05800f419141751be58f605c371e15141b007a6

Account #4: 0x15d34aaf54267db7d7c367839aaf71a00a2c6a65 (10000 ETH)
```

Test accounts for the Hardhat local blockchain

Open the *My Accounts* menu by clicking on the symbol at the top right corner and select entry *Import Account*:





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My Accounts

Lock

○ Not connected

Account 2



Account 1

0 ETH



Account 2

IMPORTED

9999.9995651 ETH



Create Account

Buy

Send

Swap



Import Account



Assets

Activity

Connect Hardware Wallet



Support





Import:

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Import Account



17



Imported accounts will not be associated with your originally created MetaMask account Secret Recovery Phrase. Learn more about imported accounts [here](#)

Your email

Select Type

Private Key



Enter your private key string here:





After having

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MetaMask:





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Get started



○ Not connected

Account 3

0x709...79C8 



10000 ETH



Buy



Send



Swap

Assets

Activity



10000 ETH





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What's Next

In the next part we're going to connect our React web application with the Greeter smart contract. We'll connect to MetaMask for using the connected test account to interact with the smart contract on the blockchain.

Top Course Recommendation:

Ethereum and Solidity: The Complete Developer's Guide*

Use Ethereum, Solidity, and Smart Contracts to build production-ready apps based on the blockchain

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