

Setup instructions:

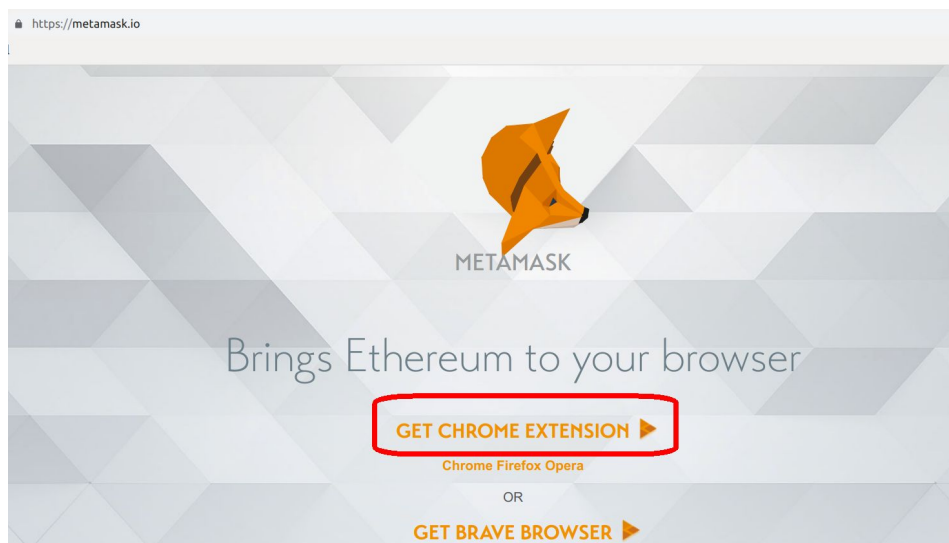
These are simple setup instructions that will take 10-15mins to complete. Please complete them before the session, so that you'll be able to explore Cryptocurrencies (Ethereum on a Testnet), interact with Smart Contracts, and use Decentralized Applications (dApps) in your web browser and on your phone.

TL;DR (One sentence summary of steps): Use Firefox or Chrome, Install [MetaMask](#) (browser plugin), setup a MetaMask account and switch to the Kovan Testnet, request tokens from a faucet, install the [Coinbase Wallet](#) on your phone and import/recover the account you created with MetaMask.

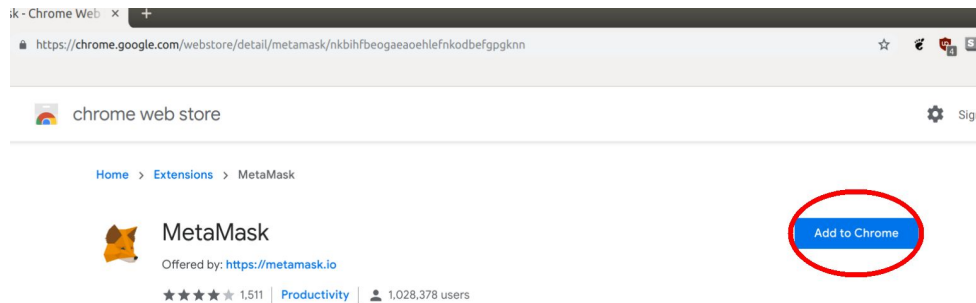
1. Download and use [Chrome](#) or [Firefox](#)

2. Install the browser plugin MetaMask:

- Go to <https://metamask.io/> and press the “Get Chrome / Firefox Extension” link.



- Then press **“Add to Chrome”** or **“Add to Firefox”**



- Install the plugin by pressing **“Add Extension”**

3. Setup MetaMask

- When MetaMask is installed you'll see an **orange fox** in the right corner of your browser (this is your newly installed browser plugin)
- To setup MetaMask press **Get Started**



Welcome to MetaMask

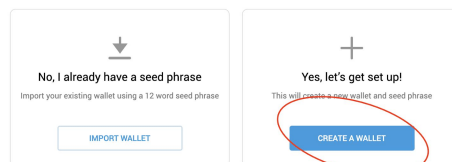
Connecting you to Ethereum and the Decentralized Web.
We're happy to see you.

GET STARTED

- Then choose **Create a Wallet**



New to MetaMask?



- You can decline to send usage data (by pressing **No Thanks**):

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!

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](#).

- MetaMask will ask you for a Password. This password unlocks the application and shows your private key. Choose a secure password and press **Create**:

Create Password

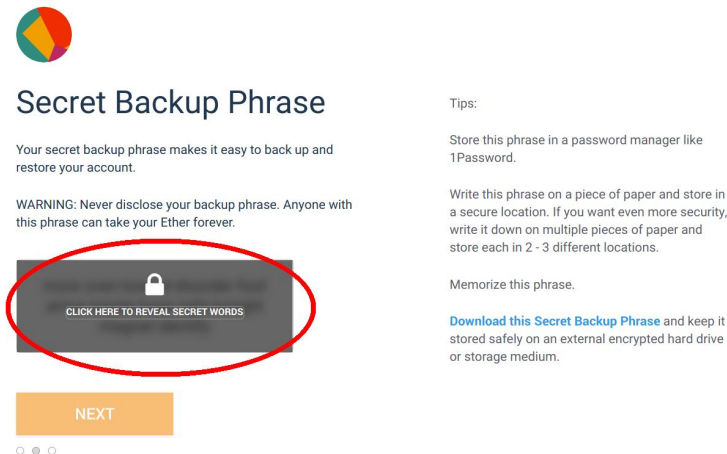
New Password (min 8 chars)

Confirm Password

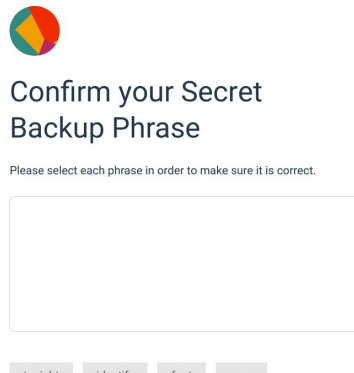
Import with seed phrase

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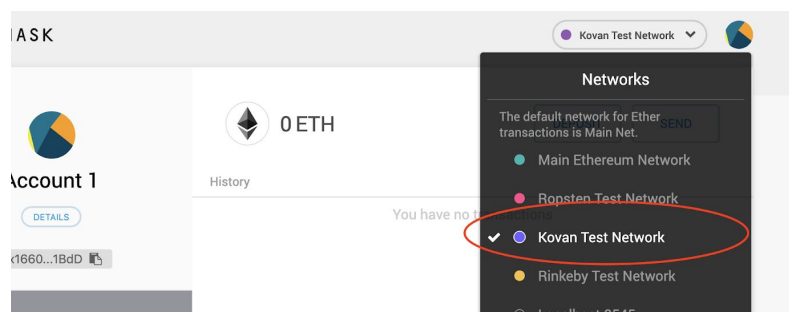
- The next step is **super important**. Here you will generate your seed phrase that can be used to recover your Private Key and import your account on different devices. Press **Click here to reveal secret words**. *Write down all the words in the correct order* (on your phone, computer or on paper) and store them somewhere safe. You will need the seed phrase in the next step and if you ever lose your account.



- In the next step: Confirm your seed phrase by pressing the word blocks (in order). This is to make sure that you actually wrote it down and can remember it.



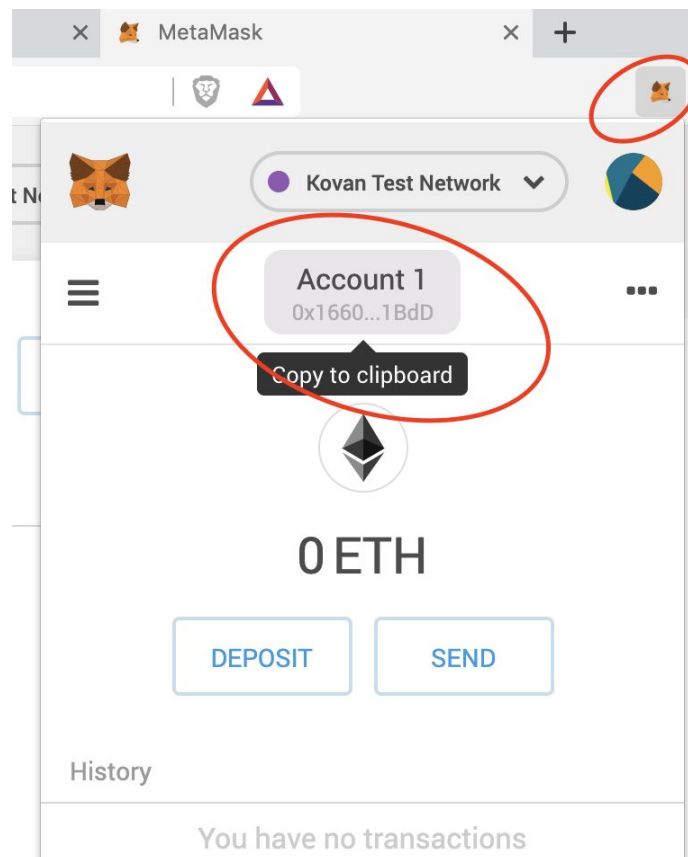
- Press **All Done** on the Congratulations! page. You have now setup your MetaMask account.
- Next: Change your network in the top right corner from the Main Ethereum Network to the **Kovan Test Network**. We will use a TestNet to try smart contracts and send money without using real money.



4. Acquire (test) Cryptocurrency

Kovan is a *Proof of Authority* test net, which means you need to show that you're a human in order to get some free test Ether.

To request Kovan Ether we need to first copy your Public Account address. Do this by pressing the Fox icon in the top right corner of your browser. This opens MetaMask, then press the text that says **Address 1**, this will copy your blockchain account address to the clipboard.

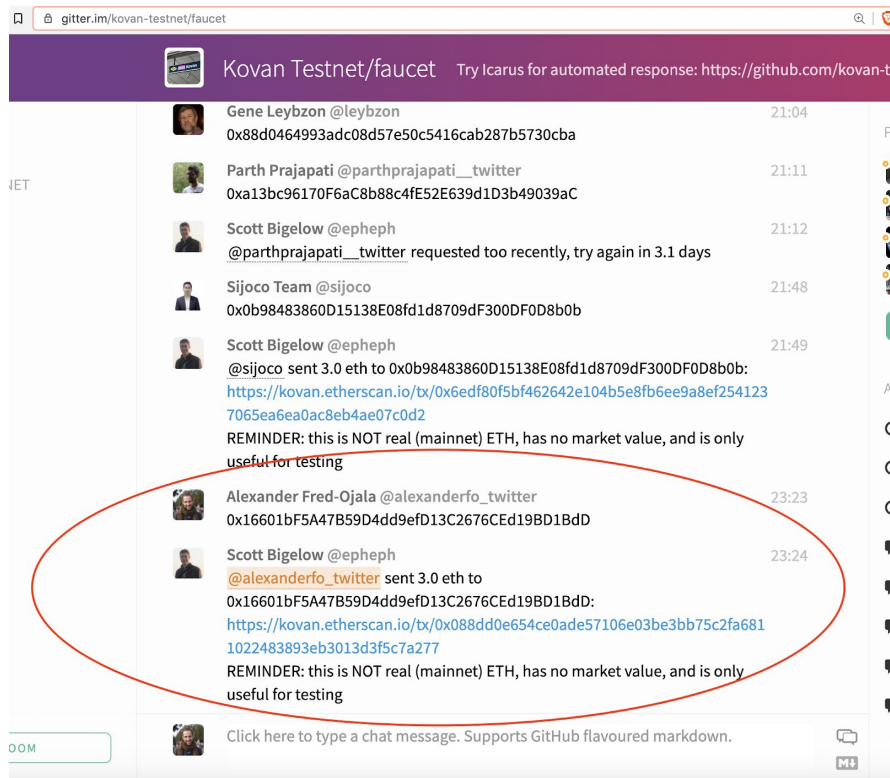


There are several ways you can request Kovan Ether:

1. **[Requires a Twitter / Github account]:** Join the Kovan Faucet Gitter channel and paste your public Ethereum address (that you copied above). Your account will be credited with 3 Kovan ETH: <https://gitter.im/kovan-testnet/faucet>

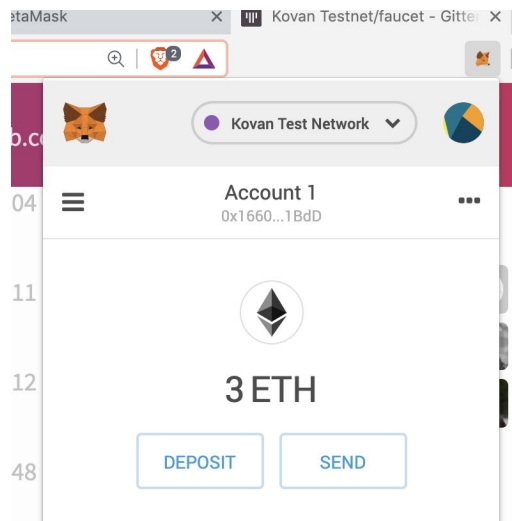
Hands on Blockchain

Alexander Fred-Ojala, Research Director, UC Berkeley



2. **[Requires sending an email]:** Send an email to afo@berkeley.edu and include your public address. I'll send some Kovan ETH as soon as possible
3. **[Backup]:** I'll provide you a link during the workshop where you can request Kovan ETH, however this is only a backup option.

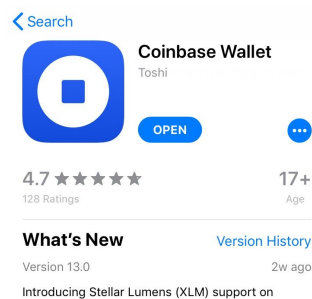
After the transaction is confirmed you'll have Kovan ETH in your account :)



Set up a mobile crypto wallet and dApp browser

There are many crypto wallets and dApp / smart contract browsers for smart phones. I recommend Coinbase Wallet (or Trust browser). We'll use the Coinbase Wallet as it supports TestNets.

In order to install Coinbase Wallet go to their website <https://wallet.coinbase.com/> and install it either for iOS or Android (or search for it in the App Store / Google Play).



When you have installed the app you want to import your wallet from MetaMask in to Coinbase Wallet. In order to do that you open the app and then choose **I already have a wallet**

coinbase | Wallet

The easiest and most secure
crypto wallet

• • • • •

Create a new wallet

[I already have a wallet](#)

- Then choose **Restore with a Recovery Phrase**.
- Then you need to put in your 12 word seed phrase that we saved when we setup the MetaMask account.

Sign in with a recovery phrase

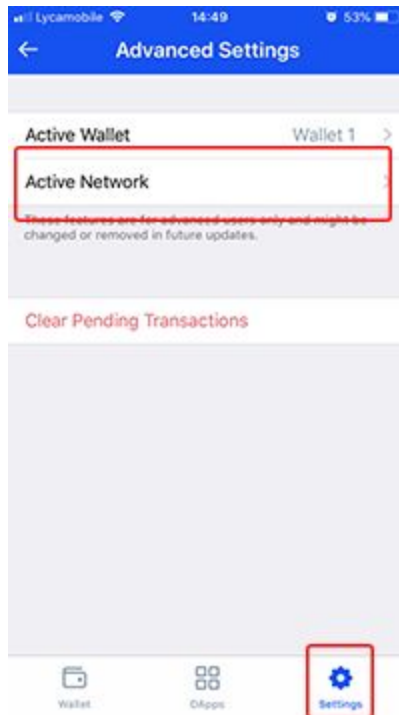
This is a 12 word phrase you were given when you created your previous wallet.

[Learn more.](#)

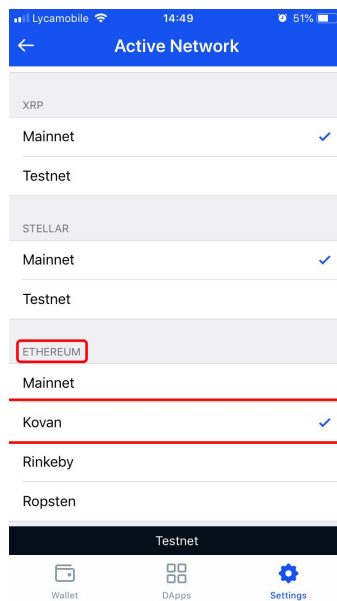
Recovery phrase...

Next

- After that **Accept** the Terms and Conditions for using the app.
- Choose a **username** that you want to use with the app.
- Choose how you want to protect the app (FaceID, TouchID, pass code etc)
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- Congrats! Coinbase Wallet is now setup. Now we need to change from the Mainnet to the Kovan Testnet. You can do that by pressing the **Settings cogwheel at the bottom right, then pressing Advanced Settings and then pressing Active Network**:



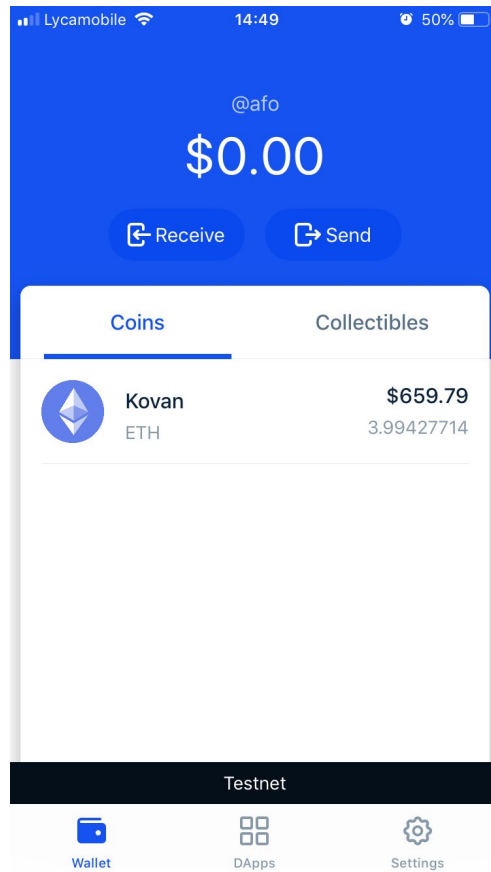
- Scroll all the way down to Ethereum and change to **Kovan**



- You should now see all Ethers that you have received from faucets in the account

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Congratulations! Now you can send and receive Ether as well as interact with Smart Contracts, Decentralized Applications, and browse Web3.0 both on your computer and your mobile phone!