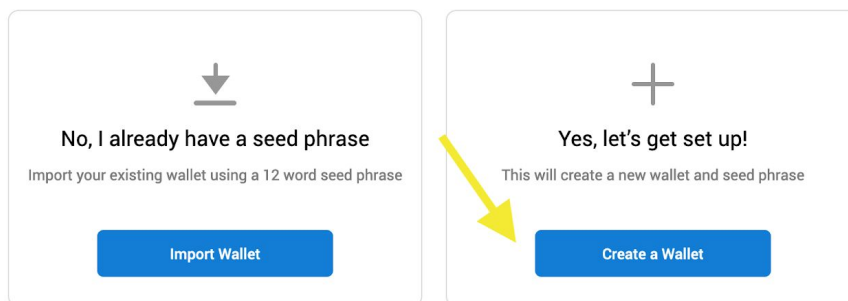# Setup to run Maestro

Objective: The following guide will help you setup your environment to run Maestro. For this guide you will need access to the internet, keep in mind some networks may prevent you from downloading certain dependencies.

1. **Download Firefox** browser and install (mozilla.org)
2. **Download metamask** extension
   https://addons.mozilla.org/en-US/firefox/addon/ether-metamask/
   a. Once metamask is downloaded click "create a wallet"

🦊 **METAMASK**

New to MetaMask?

⬇	╋
No, I already have a seed phrase	**Yes, let's get set up!**
Import your existing wallet using a 12 word seed phrase	This will create a new wallet and seed phrase
Import Wallet	**Create a Wallet**

   b. create a password

🦊 **METAMASK**

< Back

Create Password

New Password (min 8 chars)

••••••••
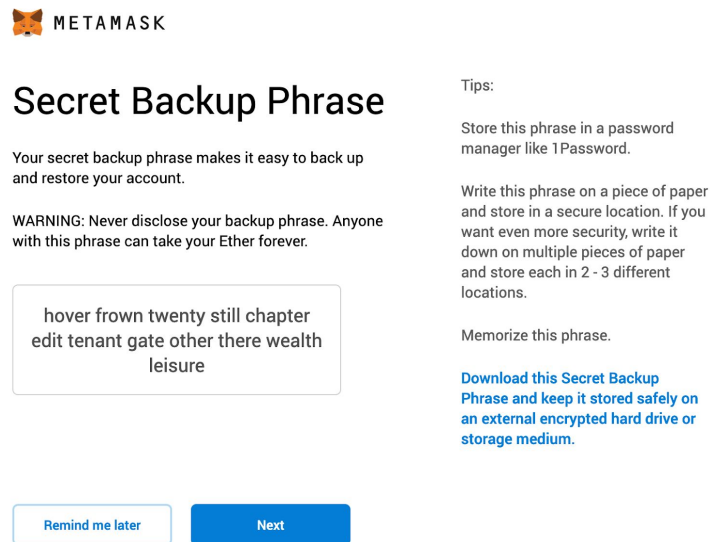
Confirm Password

••••••••

✔ I have read and agree to the **Terms of Use**

Create

c. Save the secret backup phrase in case you lose your password

METAMASK

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.

> hover frown twenty still chapter
> edit tenant gate other there wealth
> leisure

Tips:

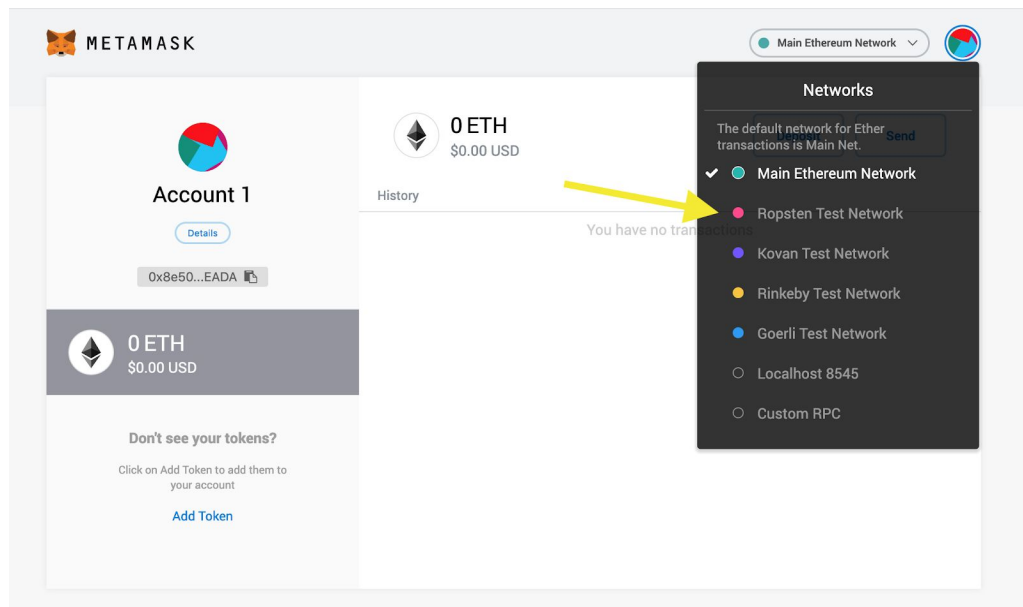Store this phrase in a password
manager like 1Password.

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 Backup
Phrase and keep it stored safely on
an external encrypted hard drive or
storage medium.**

[Remind me later]   [Next]

d. Now that metamask is up and running switch to the ropsten test network

METAMASK

Main Ethereum Network ⌄

Account 1

(Details)

0x8e50...EADA

0 ETH
$0.00 USD

0 ETH
$0.00 USD

History

You have no transactions

Don't see your tokens?

Click on Add Token to add them to
your account

Add Token

Networks

The default network for Ether
transactions is Main Net.

✓ ● Main Ethereum Network

● Ropsten Test Network

● Kovan Test Network

● Rinkeby Test Network

● Goerli Test Network

○ Localhost 8545

○ Custom RPC

e. Drip some ether from: https://faucet.metamask.io/
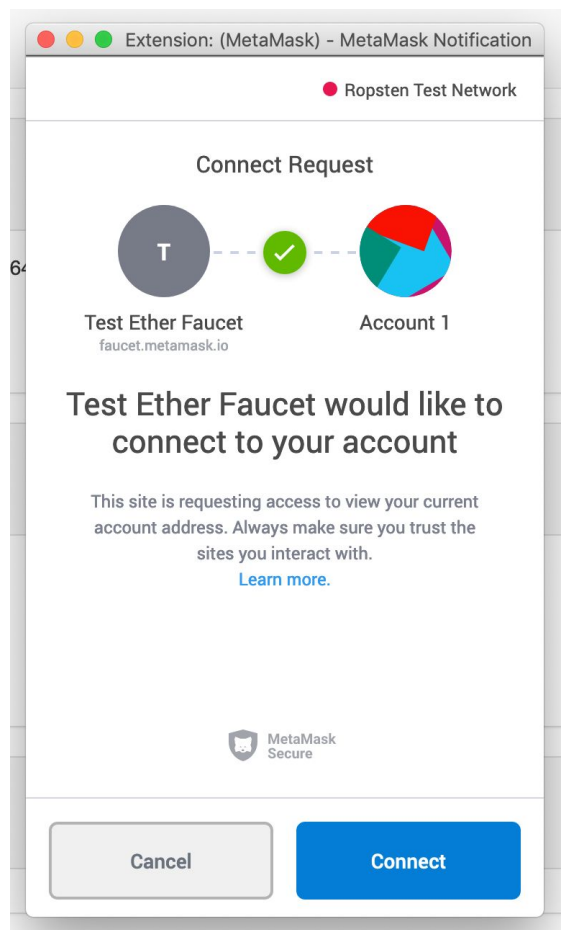f. Click "request 1 ether from faucet"

MetaMask Ether Faucet

faucet

address: 0x81b7e08f65bdf5648606c89998a9cc8164397647
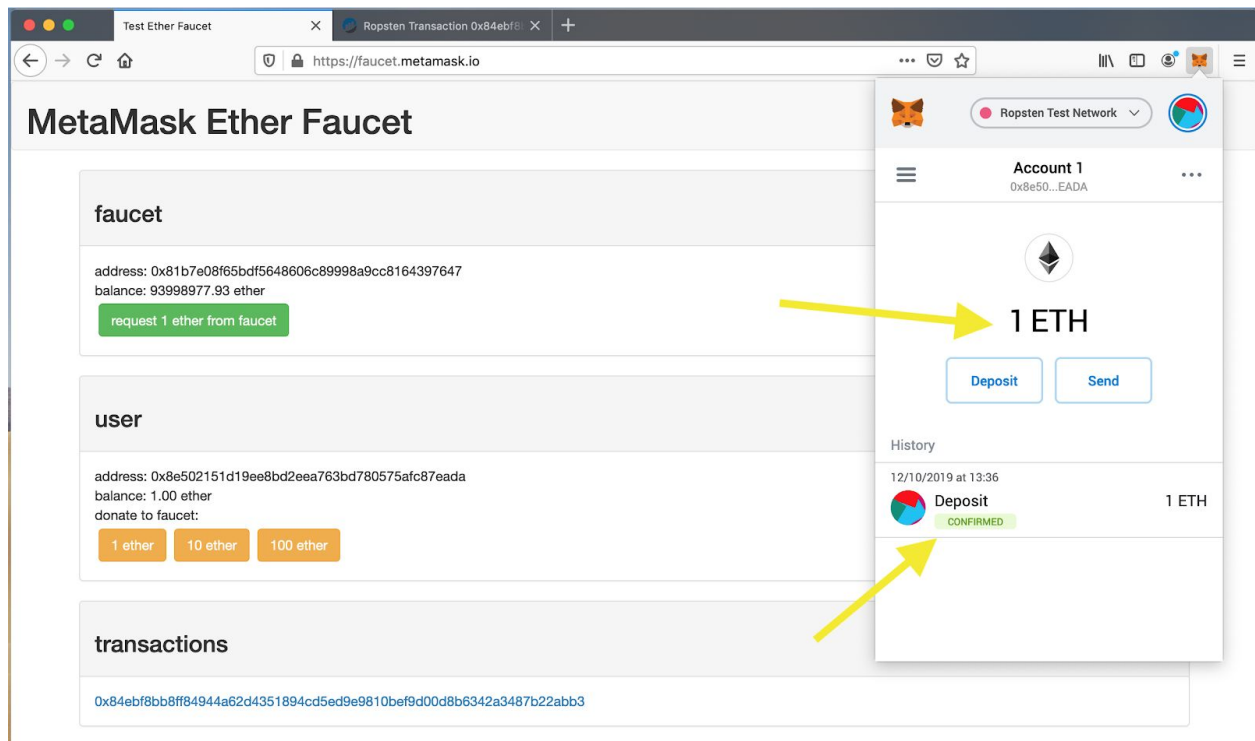balance: 93999061.94 ether

[request 1 ether from faucet]

user

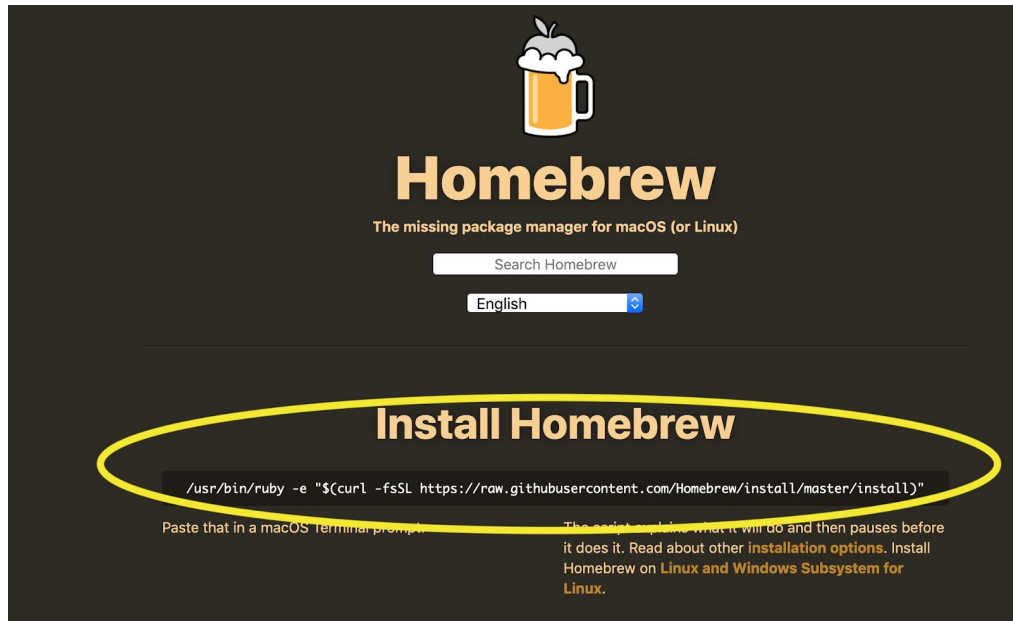g. You should get a popup asking you whether you'd like to connect the faucet to your account

h. click connect
i. If the transaction is successful you should see the following in metamask, keep in mind the transaction may take a couple of minutes to process

j. You can repeat the process of requesting more ether if you do not have enough ether to run transactions

3. Install homebrew
a. In order to install homebrew you first need to open *terminal* application on your mac
a. Next, go to: http://brew.sh
b. copy the link and paste it into terminal

Homebrew

The missing package manager for macOS (or Linux)

Search Homebrew

English

Install Homebrew

/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

Paste that in a macOS Terminal prompt.

The script explains what it will do and then pauses before it does it. Read about other **installation options**. Install Homebrew on **Linux and Windows Subsystem for Linux**.

c. hit return in terminal


```
/usr/local/share/zsh/site-functions/_brew
/usr/local/etc/bash_completion.d/brew
/usr/local/Homebrew
==> The following new directories will be created:
/usr/local/bin
/usr/local/etc
/usr/local/include
/usr/local/lib
/usr/local/sbin
/usr/local/share
/usr/local/var
/usr/local/opt
/usr/local/share/zsh
/usr/local/share/zsh/site-functions
/usr/local/var/homebrew
/usr/local/var/homebrew/linked
/usr/local/Cellar
/usr/local/Caskroom
/usr/local/Homebrew
/usr/local/Frameworks
==> The Xcode Command Line Tools will be installed.

Press RETURN to continue or any other key to abort
```

d. enter your computer password if prompted, you will not see the password fill in as you type it but once you type the computer password hit enter

e. It may take a few minutes to install, once installation is complete, you should see "installation successful" in the terminal application

4. Install Geth

    a. Type the following in terminal:

        i.   `brew tap ethereum/ethereum`

b. After the above command processes type the following

  i. `brew install ethereum`

```
Mustafas-MacBook-Pro:~ Akram$ brew install ethereum
Updating Homebrew...
==> Auto-updated Homebrew!
Updated 1 tap (homebrew/core).
==> Updated Formulae
nsd                                    phpstan

==> Downloading https://homebrew.bintray.com/bottles/ethereum-1.9.9.mojave.bottle.tar.g
==> Downloading from https://akamai.bintray.com/ab/ab1b11ce6e0223524972556ba611ea9627db
################################################################### 100.0%
==> Pouring ethereum-1.9.9.mojave.bottle.tar.gz
   /usr/local/Cellar/ethereum/1.9.9: 19 files, 281.1MB
Mustafas-MacBook-Pro:~ Akram$
```

c. Now that both those commands successfully ran, we can then run the geth client

  i. Type: `geth --syncmode light console` and hit enter

  ii. You should see the following: ensure that at the top of terminal it says "geth --syncmode light console"

  iii. This terminal window will continue syncing with the blockchain and you should see it importing new blocks as it syncs

iv.   Keep this terminal window open and running

v.   If you shut down your computer or close this window at a future point, you can reinstate it by typing `geth --syncmode light console` in a terminal window