

ETHEREUMJS- TESTRPC

A SHORT GUIDE HOW TO USE IT

DOWNLOAD & INSTALL

- Through the node package manager
 - „npm install -g ethereumjs-testrpc@beta“
 - But „npm install -g ethereumjs-testrpc“ only should work already
 - It's version 4.0.1
 - Very quick, no other dependencies because new installing package
 - Before needed a C++ compiler, now a bundle
 - Make sure you have Node.js (\geq v6.9.1) installed.
 - „node -v“

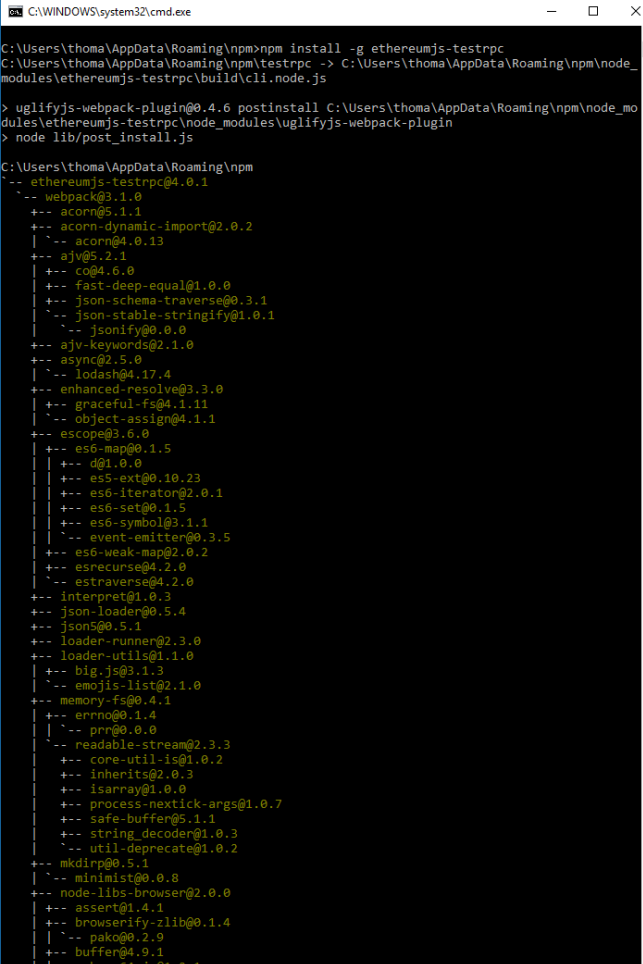
NODE VERSION

- Current version 6.11.0
- „node -v“

```
$ node -v  
v6.11.0
```

INSTALL ETHEREUMJS-TESTRPC

- „npm install –g ethereumjs-testrpc“
 - In any command line/shell window
- Pre-Packaged now
 - Doesn't (or shouldn't) need any other software to be installed



```
C:\WINDOWS\system32\cmd.exe

C:\Users\thoma\AppData\Roaming\npm>npm install -g ethereumjs-testrpc
C:\Users\thoma\AppData\Roaming\npm\testrpc -> C:\Users\thoma\AppData\Roaming\npm\node_modules\ethereumjs-testrpc\build\cli.node.js

> uglifyjs-webpack-plugin@0.4.6 postinstall C:\Users\thoma\AppData\Roaming\npm\node_modules\ethereumjs-testrpc\node_modules\uglifyjs-webpack-plugin
> node lib/post_install.js

C:\Users\thoma\AppData\Roaming\npm
-- ethereumjs-testrpc@4.0.1
  -- webpack@3.1.0
    ++ acorn@5.1.1
    ++ acorn-dynamic-import@2.0.2
    |   -- acorn@4.0.13
    ++ ajv@5.2.1
    |   ++ co@4.6.0
    |   ++ fast-deep-equal@1.0.0
    |   ++ json-schema-traverse@0.3.1
    |   ++ json-stable-stringify@1.0.1
    |   ++ jsonify@0.0.0
    ++ ajv-keywords@2.1.0
    ++ async@2.5.0
    |   -- lodash@4.17.4
    ++ enhanced-resolve@3.3.0
    ++ graceful-fs@4.1.11
    |   -- object-assign@4.1.1
    ++ escope@3.6.0
    |   ++ es6-map@0.1.5
    |   |   ++ d@1.0.0
    |   |   ++ es5-ext@0.10.23
    |   |   ++ es6-iterator@2.0.1
    |   |   ++ es6-set@0.1.5
    |   |   ++ es6-symbol@3.1.1
    |   |   -- event-emitter@0.3.5
    |   ++ es6-weak-map@2.0.2
    |   ++ esrecurse@4.2.0
    |   -- estraverse@4.2.0
    ++ interpret@1.0.3
    ++ json-loader@0.5.4
    ++ json5@0.5.1
    ++ loader-runner@2.3.0
    ++ loader-utils@1.1.0
    |   ++ big.js@3.1.3
    |   ++ emojis-list@2.1.0
    ++ memory-fs@0.4.1
    |   ++ errno@0.1.4
    |   |   -- prr@0.0.0
    |   -- readable-stream@2.3.3
    ++ core-util-is@1.0.2
    ++ inherits@2.0.3
    ++ isarray@1.0.0
    ++ process-nextick-args@1.0.7
    ++ safe-buffer@5.1.1
    ++ string_decoder@1.0.3
    |   -- util-deprecate@1.0.2
    ++ mkdirp@0.5.1
    |   -- minimist@0.0.8
    ++ node-libs-browser@2.0.0
    |   ++ assert@1.4.1
    |   ++ browserify-zlib@0.1.4
    |   -- pako@0.2.9
    ++ buffer@4.9.1
    |   -- base64-js@1.2.1
```

USAGE

- Start via the shell
 - „testrpc“
- Will create 10 accounts
 - print out the private keys
 - And 100 ether in each account
- And a Mnemonic

```
$ testrpc
EthereumJS TestRPC v3.9.2

Available Accounts
=====
(0) 0x1b7505858c7a06a2a142e973de3e6edbc4b17731
(1) 0xf29fe36eef1f6226a54199f1200523d3672ee767
(2) 0x1f1da8991fc2c4721c219913adda4a6a11c16965
(3) 0xa5ba27f82b131484cc4f0697fe7327f13ab78401
(4) 0x1815fa1d9e3b5cd0c445fc0cadbc9b8690ddc82a
(5) 0x2c12db388ada1bb8d2ecdfe302697632af1a9202
(6) 0x837124f320ecdec3ff00961973414a351e47b7a4
(7) 0x0fd1f52ba995e3caace83ba9051d16f09bca7eea
(8) 0x43a8465aa939c79dadeab5c64e5bddabb3eeb9af
(9) 0x248158358db89ddad628d95c494b368fcd419543

Private Keys
=====
(0) 74cd9985da131fbc5d4c507b4af0178f0f2247601bafb306190fefcea386e8e
(1) 9996e36fbbac7e6c0afe5aa4df497115f99a0694d7608629e809edf874ca46ba
(2) 99f2ee9eed9fbb3e3f25eb15ac3aa3a990dd42b7f10badd335b4bac7b9527501
(3) 1aaa76fc2f6724bddf48542b734ca0828934ffac7b218726ff0c43ab068551d2
(4) 29b2db186b52b4909a39ab5d7637a75a1b3cf1ac1e10c465154b3a557578b8c6
(5) 6dd4c9762beeaafb513e36f09f2f832fa6a9eb7a6e3948e53f3c1b8dcb97fc62
(6) df9ddb2e3789c284ffe5ae413820e7b3431df8c640507cc5b475efd45fc0217c
(7) e7cfd6ced0b6ffa295c3d8faca45a0c8b615c6288434123e771449729033f3f3
(8) bbd4c42ddf428dfec0b0e6caabae11e8cc46d6dc49827156d3d7b8d1c4403ff0
(9) de11b8468f1317b32a07a830134c4af5593d636e42454a042ceaf992e905ded8

HD wallet
=====
Mnemonic:      swift cactus cradle merry improve layer this calm raven tobacco gap two
Base HD Path:  m/44'/60'/0'/0/{account_index}

Listening on localhost:8545
```

USE THE MNEMONIC TO START IT AGAIN

- Useful for development
- Always the same accounts
 - Great for MetaMask (later)
- „testrpc -m " MNEMONIC ""
 - testrpc -m "swift cactus cradle merry improve layer this calm raven tobacco gap two"

WHAT YOU LEARNED

- How to install ethereumjs-testrpc
- How to start testrpc that it's more convenient to develop with

QUESTIONS/SUGGESTIONS?

- Head over to the Q&A
- Got any feedback?
 - We're happy to hear it!
- Anything else?
 - Private message!