TRUFFLE

YOUR ETHEREUM SWISS ARMY KNIFE

WHAT IS TRUFFLE?

- Development Environment

- Testing Framework

- Asset Pipeline

- Makes the Developers Life easier

- We will work a lot (A LOT) with truffle in this course

THIS IS WHAT YOU GET

- Built in smart contract compilation
    - Linking
    - Deployment
    - Binary Management

- Automated testing for rapid development

- Migrations Framework

- Network Management (deploy to testnet/mainnet/private networks)

- Package Management with EthPM, NPM

- And much much (which we don't use)

- Including a great documentation

INSTALLATION & CONFIGURATION

- Via Node Package Manager
  - „npm install -g truffle"
    - Or the beta package if installation fails: „npm install –g truffle@beta"

  - NodeJS 5+, Windows, Linux, MacOSx

- Start a new project with „truffle init"

- Find the truffle.js config file
  - Which we will do later on

DEVELOPMENT WITH TESTRPC

- Rapid Development

- Great for testing

- Instant results

- No waiting time

- Great abstraction

- Promises instead of „waiting for transactions to be mined"

DEPLOYMENT WITH GETH

- After testing (and more testing) deployment

- Full Geth node recommended

- Possible to deploy to main-net, test-net, private networks
  - Just a matter of configuration

TESTING FRAMEWORK

- JavaScript tests in Mocha
  - Assertions in Chai

- We will do this extensively

- Can run all/selected tests

- Great for continuous testing

MORE INFORMATION

- We will describe all moving parts when we use them
  - Truffle-Contract

- Website of Truffle http://truffleframework.com/

- Great Documentation

- Fast & Convenient Development
  - Truffle init …
  - „truffle init webpack"

- Trufflebox
  - With React/Redux pre-configured

DRAWBACKS & GOOD TO KNOW

- Cannot import contracts from github
  - More on that later

- Does not have a debugger
  - Because it's a development framework

- Is not very clear for beginners what it's all for

- Different versions break backwards/forward compatibility

WHAT YOU HAVE LEARNED

- Truffle is a Smart Contract Development Framework

- Makes testing and deployment easy

- Doesn't have a debugger or anything like that

- Great abstraction, works with promises

QUESTIONS/SUGGESTIONS?

- Head over to the Q&A

- Feedback?
  - We'd love to hear it!

- Disappointed?
  - Give us a chance to make things right.