Truffle Quick Guide

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Quick Start

https://trufflesuite.com/docs/truffle/ https://trufflesuite.com/tutorial/

With Truffle, you get:

- Contract compilation, linking, deployment & testing
- Network management for deploying to any number of public & private networks
- Package management with EthPM & NPM, using the ERC190 standard.
- Interactive console for direct contract communication.
- Configurable build pipeline with support for tight integration.
- External script runner that executes scripts within a Truffle environment.

Installing Truffle: npm install -g truffle

Creating a project:

truffle unbox metacoin

You can use the truffle unbox <box-name> command to download any of the other Truffle Boxes.

To create a bare Truffle project with no smart contracts included, use truffle init

Open the contracts/Migrations.sol file. This is a separate Solidity file that manages and updates the status of your deployed smart contract

Open the migrations/1_initial_migration.js file. This file is the migration (deployment) script for the Migrations contract found in the Migrations.sol file

Open the migrations/2_deploy_contracts.js file. This file is the migration script for the MetaCoin contract. (Migration scripts are run in order, so the file beginning with 2 will be run after the file beginning with 1.)

Testing

Run the Solidity test: truffle test ./test/TestMetaCoin.sol Run the JavaScript test: truffle test ./test/metacoin.js

Compiling: truffle compile

Migrating (deploying) with Ganache

Open truffle-config.js and replace the content with the following:

```
module.exports = {
  networks: {
    development: {
     host: "127.0.0.1",
     port: 8545,
     network_id: "*"
    }
};
```

Run: truffle migrate

Interacting with the contract

To interact with the contract, you can use the Truffle console. The Truffle console is similar to Truffle Develop, except it connects to an existing blockchain (Ganache)

```
Run: truffle console
```

```
truffle(development)> let instance = await MetaCoin.deployed()
truffle(development)> let accounts = await web3.eth.getAccounts()
truffle(development)> let balance = await instance.getBalance(accounts[0])
truffle(development)> balance.toNumber()
truffle(development)> let ether = await instance.getBalanceInEth(accounts[0])
truffle(development)> ether.toNumber()
truffle(development)> instance.sendCoin(accounts[1], 500)
```