Truffle

TRUFFLE OVERVIEW

A world class development environment, testing framework and asset pipeline for blockchains using the Ethereum Virtual Machine (EVM), aiming to make life as a developer easier. With Truffle, you get:

- Built-in smart contract compilation, linking, deployment and binary management.

- Automated contract testing for rapid development.

- Scriptable, extensible deployment & migrations framework.

- 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.

Installation

```
npm install -g truffle
```

Create Directory and Unbox

```
mkdir MetaCoin
cd MetaCoin
```

```
truffle unbox metacoin
```

Default File Structure

- **contracts/** : Directory for Solidity contracts

- **migrations/** : Directory for scriptable deployment files

- **test/** : Directory for test files for testing your application and contracts

- **truffle.js** : Truffle configuration file

Compiling Contracts

`truffle compile`

Migration of Contracts

```
$ truffle migrate
```

```javascript
var MyContract = artifacts.require("MyContract");

module.exports = function(deployer) {
  // deployment steps
  deployer.deploy(MyContract);
};
```