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Harmony Box[¶](#)

Harmony Box is a Truffle box that will get you quickly up and running deploying smart contracts on Harmony using Truffle & native Ethereum tooling.

Getting started[¶](#)

Truffle[¶](#)

If you have Truffle installed globally:

(Until the box has been approved by Truffle you have to rely on the git installation step below)

mkdir harmony && cd harmony truffle unbox harmony Or if you want to install via git:

git clone https://github.com/harmony-one/harmony-box.git cd harmony-box

.env[¶](#)

Copy .env-example to .env:

cp .env-example .env Modify .env and replace "ENTER_PRIVATE_KEY_HERE " for each network with the respective private key you want to use when deploying contracts.

Dependencies[¶](#)

Install all required dependencies using yarn:

yarn install The dependencies installed are the following:

- truffle: if you want to use a local installation rather than a global installation
- solc: Solidity compiler
- @trufflesuite/web3-provider-engine: framework for composing custom web3 providers
- ethereumjs-wallet: a lightweight Ethereum wallet implementation
- @openzeppelin/contracts: industry standard smart contract templates
- dotenv: .env file parsing library

Compilation[¶](#)

Globally installed Truffle:

truffle compile

Locally installed Truffle:

node_modules/.bin/truffle compile

Migration[¶](#)

The Harmony Box comes pre-configured with three separate networks:

- Localnet (http://localhost:9500)
- Testnet (https://api.s0.b.hmny.io)
- Mainnet (https://api.s0.t.hmny.io)

To deploy your contracts to these networks, you can run the following:

Globally installed Truffle:

truffle migrate --reset --skip-dry-run --network localnet truffle migrate --reset --skip-dry-run --network testnet truffle migrate --reset --skip-dry-run --network mainnet

Locally installed Truffle:

node_modules/.bin/truffle migrate --reset --skip-dry-run --network localnet node_modules/.bin/truffle migrate --reset --skip-

dry-run --network testnet node_modules/.bin/truffle migrate --reset --skip-dry-run --network mainnet

Testing¶

Globally installed Truffle:

truffle test

Locally installed Truffle:

node_modules/.bin/truffle test

Attribution¶

private-provider.js was originally ported from Moonbeam's Truffle Box .