



Moonbeam Truffle Box

The first release of a Truffle box for Moonbeam. With it you will find a Truffle boilerplate setup to get started deploying smart contracts on Moonbeam quickly.

Node and NPM Versions

It is recommended to use the Active LTS version of Node.js. As of writing (July 2023), the following versions of Node and NPM are recommended:

- Node v18.16.1
- NPM v9.7.2

Note: We noticed that if you are using `npm v7.0.15` you might have some errors when running `npm install`. To fix this you can downgrade `npm` to an older release such as `6.14.9` or `7.0.8` by running, for example, `npm install -g npm@v6.14.9`.

If you run into problems or notice this is out of date, please let us know by opening an issue or submitting a PR!

Getting started

To get started with the Moonbeam Truffle box, if you have Truffle installed globally, you can execute:

```
mkdir moonbeam-truffle-box && cd moonbeam-truffle-box truffle unbox PureStake/moonbeam-truffle-box
```

 Nevertheless, the box has also Truffle as a dependency in case you do not want to have it installed globally. In such a case, you can directly clone the following repository:

```
git clone https://github.com/PureStake/moonbeam-truffle-box cd moonbeam-truffle-box
```

 With the files in your local system, the next step is to install all dependencies by running:

`npm install` The dependencies installed are the following:

- Minimist
- EthereumJS wallet: a lightweight wallet implementation.
- Web3 Provider Engine: a tool for composing custom Web3 providers.
- Truffle: this is not needed if you have installed it globally.
- Moonbeam Truffle Plugin: a tool to easily create your own Moonbeam development node for quick and iterative development (uses Docker).

Networks

Moonbeam Truffle Box is pre-configured with two networks: Moonbeam Development and Moonbase Alpha TestNet. To deploy in the development network please check the Moonbeam Truffle Plugin section to install and start your own local node.

```
node_modules/.bin/truffle migrate --network dev node_modules/.bin/truffle migrate --network moonbase
```

 Note: if you have Truffle installed globally, you can replace `node_modules/.bin/truffle` for `truffle`.

Moonbeam Truffle Plugin

The plugin is used to get you started with a local development Moonbeam node quickly. You can check all available commands with the help flag:

```
./node_modules/.bin/truffle run moonbeam help
```

 The following commands are available:

Install

In this context, installing means downloading the Docker image of the Moonbeam development node (requires Docker to be installed).

```
node_modules/.bin/truffle run moonbeam install
```

Start

Start the development Moonbeam node.

```
node_modules/.bin/truffle run moonbeam start
```

Stop🔗

Stop the development Moonbeam node. This will remove the container, thus purging the chain.

```
node_modules/.bin/truffle run moonbeam stop
```

Pause🔗

Pause the development Moonbeam node.

```
node_modules/.bin/truffle run moonbeam pause
```

Unpause🔗

Unpause the development Moonbeam node.

```
node_modules/.bin/truffle run moonbeam unpause
```

Status🔗

Shows the status of the development Moonbeam node.

```
node_modules/.bin/truffle run moonbeam status
```

Remove🔗

Removes the Docker image of the Moonbeam development node.

```
node_modules/.bin/truffle run moonbeam remove
```

Truffle Plugin Verify🔗

As a convenience, the [truffle-plugin-verify](#) plugin has also been included in the Moonbeam Truffle Box. You can use this plugin to verify smart contracts automatically on [Moonscan](#) . For more information on how to use the plugin with Moonbeam, you can checkout the [Using the Truffle Verify Plugin](#) section of the Moonbeam documentation.

Contact Us🔗

We welcome any feedback, so feel free to reach out through our official [Discord Channel](#) .