Foundry

Foundry is a fast toolkit for application development written in Rust equipped with a testing framework, as well as utilities for interacting with smart contracts and getting chain data.

The template repository contains submodules and remappings for ds-test assertions for testing, solmate building blocks for contracts, and forge-std to layer on top of EVM cheat codes to improve UX.

Prerequisites

You must have the following installed:

- Git
- Yarn
-

You should also have an address on the Filecoin Calibration testnet. See theMetaMask setup page for information on how to get an address. You also need testtFIL in your wallet.

Steps

1. Clone thexBalbinus/fevm-foundry-kit
2. repository and move into thefevm-foundry-kit
3. directory:
4.

```

Copy git clone https://github.com/xBalbinus/fevm-foundry-kit/tree/main.git cd fevm-foundry-kit

```

1. Install the project dependencies with Yarn:
2.

```

Copy yarn install

```

1. Export your private key from MetaMask. See theMetaMask documentation
2. to find out how to export your private key.
3. In your.env.example
4. , create an environment variable calledPRIVATE_KEY
5. and paste in the private key from MetaMask. Also, do the same for theHYPERSPACE_RPC_URL
6. . Then rename the file to.env
7. :
8.

```

Copy PRIVATE_KEY=eed8e9d727a647f7302bab440d405ea87d36726e7d9f233ab3ff88036cfbce9c
HYPERSPACE_RPC_URL=https://api.calibration.node.glif.io/rpc/v1

```

1. Inside thesrc
2. folder in a contract calledSimpleCoin.sol
3. . Deploy this contract using Foundry:
4.

```

Copy forgebuild forgescriptscript/SimpleCoin.s.sol:MyScript--rpc-urlhttps://api.calibration.node.glif.io/rpc/v1--broadcast--verify-vvvv

▪▪▪
```

Script ran successfully.

Gas used: 234642

```

1. Alternatively, you can do the same using theforge create
2. command:
3.

```

Copy forge build

forge create --rpc-url https://api.calibration.node.glif.io/rpc/v1 --private-key PRIVATE_KEY src/SimpleCoin.sol:SimpleCoin

```

1. You can now interact with your contract using the contract address given by Foundry.
2.

Done! For more information, see theFoundry book .

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