

# 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 the [MetaMask setup page](#) for information on how to get an address. You also need testtFIL in your wallet.

## Steps

1. Clone the xBalbinus/fevm-foundry-kit
2. repository and move into the fevm-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 the [MetaMask documentation](#)
2. to find out how to export your private key.
3. In your .env.example
4. , create an environment variable called PRIVATE\_KEY
5. and paste in the private key from MetaMask. Also, do the same for the HYPERSPACE\_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 the src
2. folder in a contract called SimpleCoin.sol
3. . Deploy this contract using Foundry:
- 4.

...

Copy forge build --for-scripts script/SimpleCoin.s.sol:MyScript --rpc-url https://api.calibration.node.glif.io/rpc/v1 --broadcast --verify -vvvv

...

# Script ran successfully.

## Gas used: 234642

...

1. Alternatively, you can do the same using the `forge 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 the [Foundry book](#) .

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Last updated 7 months ago