Setting Up

Dependenciesâ

In this guide we'll be using standard tools such asgit ,docker ,nodejs , your favourite package manager such asnpm ,yarn orpnpm for NodeJS and your favourite IDE/Text editor.

note Although you can use all the aforementioned package managers we primarily use, support and generally recommendpnpm . Installing Dependencies * Ubuntu/Debian * MacOS

Install docker from:https://docs.docker.com/engine/install/ubuntu/

Install nodejs from nodesource: (other options are also okay)

curl -fsSL https://deb.nodesource.com/setup_20.x | sudo -E bash - &&\ sudo apt-get install -y nodejs To install Colima and docker through Homebrew:

brew install Colima && brew install docker docker-compose To install git, make and node through Homebrew:

brew install git make && brew install node

Installationâ

Start From a Templateâ

First, let's clone our template project. Go to ouhardhat template repository and click "use this template". Choose your new project name and set up a repository.

Help, I can't find the button! Now clone your new repository, or open a cloud-based environment such as Github Workspaces.

git clone https://github.com/your/repository.git Change directory into the repository and install the project dependencies

- npm
- yarn
- pnpm

npm install yarn install pnpm install

I'm more of a Free Spiritâ

Alternative set up paths can be just cloning or forking the example repository, or starting from scratch using ourfhenix hardhat plugin ,Gitpod environment or Github Workspaces

Configuring and Starting Localfhenixâ

In order for us to locally deploy and test contracts we will need to run our own node, for this specific use-case we have a docker image namedlocalfhenix . For ease of use and a simple setup we have hardhat tasklocalfhenix:start that downloads and runs the image in a container for you.

Set up your Mnemonicâ

Hardhat uses an.env with mnemonics to deploy and interact with contracts. Copy the.env.example file to.env and set your mnemonics (you can use the default mnemonics if you just want to use LocalFhenix)

cp .env.example .env This is the output ofcat .env :

obviously DO NOT USE IN PRODUCTION OR ANYWHERE OR WHATEVER

default wallet of localfhenix

export MNEMONIC="demand hotel mass rally sphere tiger measure sick spoon evoke fashion comfort" export WALLET=""

Starting LocalFhenix.â

Use the following command:

- npm
- yarn
- pnpm

npm run localfhenix:start yarn run hardhat localfhenix:start pnpm run localfhenix:start You should see input similar to the following:

> fhenix-hardhat-example@1.0.0 localfhenix:start hardhat localfhenix:start

Downloading docker image ghcr.io/fhenixprotocol/localfhenix:v0.2.3... warning In case of an error in this step make sure docker is running, and you have the necessary permissions to run docker commands. Wait about a minute for the image to finish downloading, after which you should see a success message:

Downloading docker image ghcr.io/fhenixprotocol/localfhenix:v0.2.3... done! Started LocalFhenix successfully at 127.0.0.1:42069 We now have a Fhenix blockchain environment running locally! Everything is set up and ready, and we can move on to coding :)

tip * If you want to make sure the container is running, you can usedocker ps * to see the container, available ports, etc. * If you want to stop LocalFhenix you can issue the following command:

- npm
- yarn
- pnpm

npm run localfhenix:stop yarn run hardhat localfhenix:stop pnpm run localfhenix:stopEdit this page

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