## Hardhat simple storage:

Setup smart contract menggunakan hardhat, dan jangan lupa untuk mengisi file .env

dengan rpc\_url alchemy dan private key metamask

```
JS hardhat.config.js ×

∨ NEW FOLDER

Ф
                                                                           require("@nomiclabs/hardhat-waffle")
require("hardhat-gas-reporter")
          > ethers-simple-storage

→ hardhat-simple-storage-fcc

                                                                            require("./task/block-number")
require("@nomiclabs/hardhat-etherscan")
require("@dotenv").config()
require("solidity-coverage")
// You need to export an object to set up your config
// Go to https://hardhat.org/config/ to learn more
           > contracts
           > scripts
           > tasks
           > test
           .env
            gitignore
                                                                                  const COINMARKETCAP_API_KEY = process.env.COINMARKETCAP_API_KEY || ""
           ! .gitpod.yml
                                                                                  const RINKEBY_RPC_URL =
  process.env.RINKEBY_RPC_URL ||
  "https://eth-rinkeby.alchemyapi.io/v2/your-api-key"
               npmignore.
■ .prettierignore
                                                                                   const PRIVATE KEY =
          ■ .prettierrc
                                                                                  process.env.PRIVATE_KEY ||
                                                                          19 "0x11ee3108a03081fe260ecdc106554d09d9d1209bcafd46942b10e02943effc4a"
20 const ETHERSCAN_API_KEY = process.env.ETHERSCAN_API_KEY || ""
           {} package-lock.json
          {} package.json

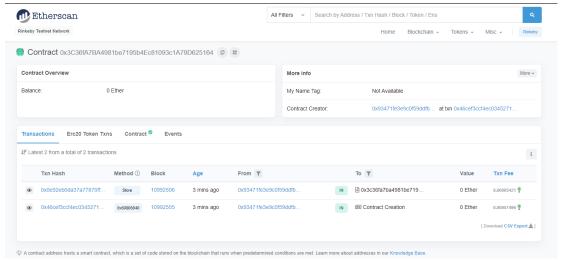
    README.md

                                                                                  module.exports = {
   defaultNetwork: "hardhat",
           ઢ yarn.lock
                                                                                     networks: {
                                                                                        hardhat: {},
                                                                                       rarunat: {},
rinkeby: {
  url: RINKEBY_RPC_URL,
  accounts: [PRIVATE_KEY],
  chainId: 4,
                                                                                       localhost: {
   url: "http://localhost:8545",
                                                                                         url: "http://loo
chainId: 31337,
                                                                                       apiKey: ETHERSCAN_API_KEY,
```

Jalankan perintah yarn, setelah itu deploy smart contract dengan perintah yarn hardhat run scripts/deploy.js --network rinkeby. Setelah itu smart contract akan terdeploy beserta informasi addressnya

```
TERMINAL
warning solidity-coverage > @truffle/provider > web3 > web3-eth > web3-eth-accounts > uuid@3.3.2: Please upgrade to version 7 or higher
o be problematic. See https://v8.dev/blog/math-random for details.
       .
Fetching packages.
[3/4] Linking dependencies...
warning " > prettier-plugin-solidity@1.0.0-beta.19" has unmet peer dependency "prettier@^2.3.0".
warning "ethereum-waffle > @ethereum-waffle/compiler > typechain > ts-essentials@6.0.7" has unmet peer dependency "typescript@>=3.7.0".
[4/4] Building fresh packages...
success Saved lockfile.
gitpod /workspace/new folder/hardhat-simple-storage-fcc (main) $ yarn compile
warning package.json: No license field error Command "compile" not found.
info Visit https://yarnpkg.com/en/docs/cli/run for documentation about this command.
                     e/new_folder/hardhat-simple-storage-fcc (main) $ yarn compile
yarn run v1.22.19
warning package.json: No license field error Command "compile" not found.
info Visit https://yarnpkg.com/en/docs/cli/run for documentation about this command.
                         ew_folder/hardhat-simple-storage-fcc (main) $ yarn hardhat run scripts/deploy.js --network rinkeby
yarn run v1.22.19
warning package.json: No license field
Downloading compiler 0.8.8
Compiled 1 Solidity file successfully
Deploying contract...
Deployed contract to: 0x3C36fA7BA4981be7195b4Ec81093c1A79D625164
Updated Value is: 7
Done in 22.22s.
```

Untuk melihat detail contract tersebut, akan dicek dengan etherscan dengan address smart contract yang tampil pada terminal. Dan terbukti contract telah terdeploy beserta interaksi sebelumnya.



Terdapat juga gas report tentang biaya saat kita mendeploy smart contract pada sebuah file .txt

