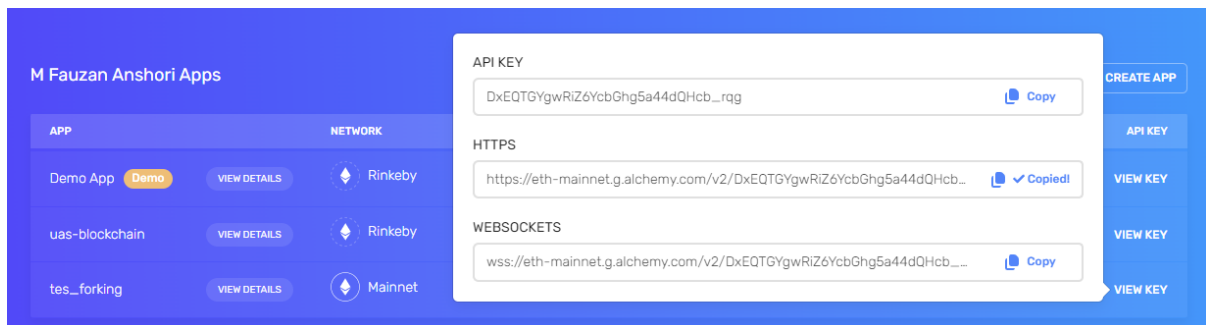


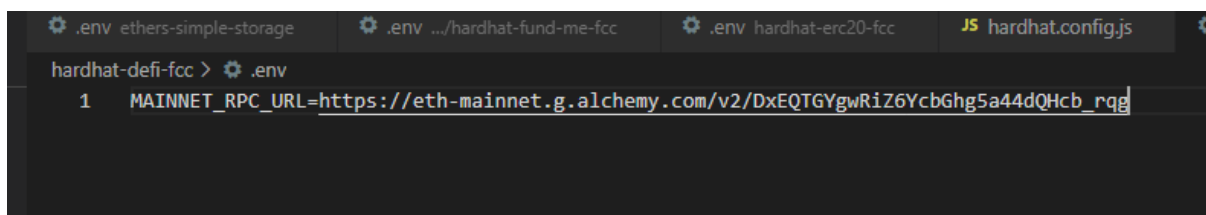
## Hardhat DeFi & Aave :

DeFi adalah istilah umum untuk layanan keuangan di blockchain publik, terutama Ethereum. Dengan DeFi, pengguna dapat melakukan sebagian besar hal yang didukung bank seperti mendapatkan bunga, meminjam, meminjamkan, dan banyak lagi tetapi lebih cepat dan tidak memerlukan dokumen atau pihak ketiga. Seperti kripto pada umumnya, DeFi bersifat global, peer-to-peer dan terbuka untuk semua.

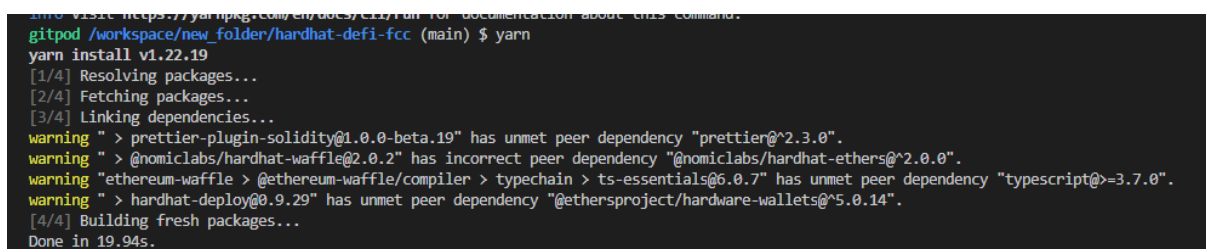
Diperlukan url mainnet rpc untuk mencoba berinteraksi dengan smart contract secara lokal, kita dapat membuat lagi mainnet untuk kasus ini menggunakan alchemy.



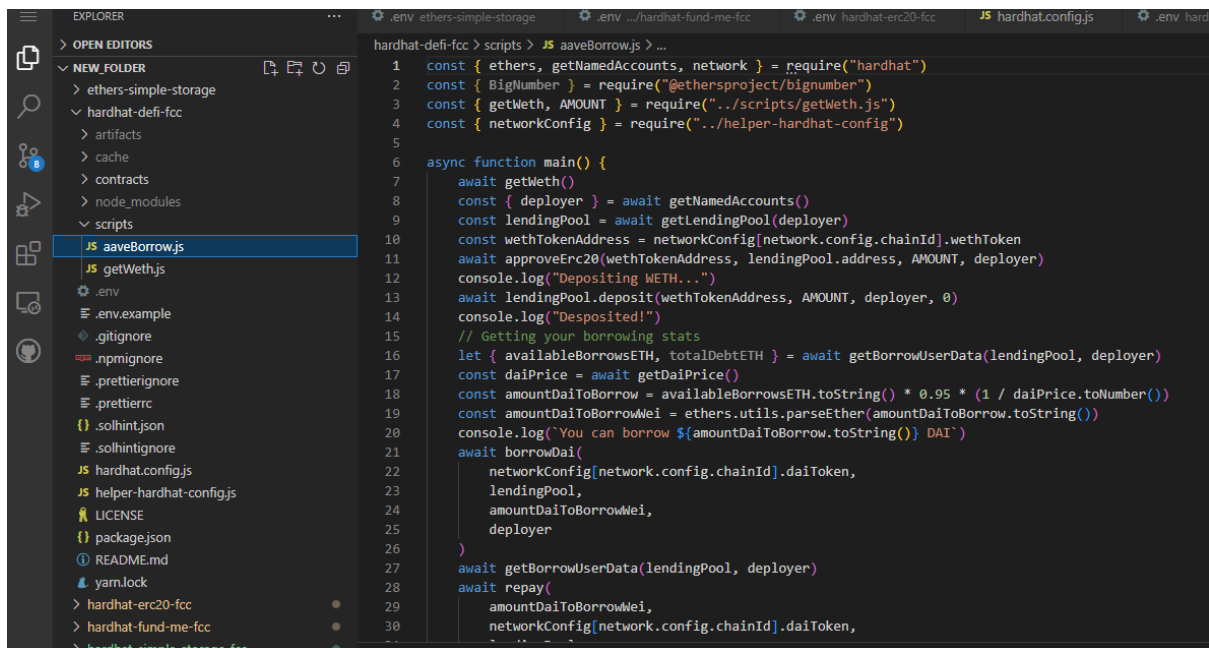
Dan menaruh url tersebut pada .env



Jangan lupa untuk menjalankan perintah yarn sebelum melanjutkan.



Setelah itu kita dapat menjalankan script aaveBorrow untuk meminjam sejumlah ETH



```
1 const { ethers, getNamedAccounts, network } = require("hardhat")
2 const { BigNumber } = require("@ethersproject/bignumber")
3 const { getWeth, AMOUNT } = require("../scripts/getWeth.js")
4 const { networkConfig } = require("../helper-hardhat-config")
5
6 async function main() {
7   await getWeth()
8   const { deployer } = await getNamedAccounts()
9   const lendingPool = await getLendingPool(deployer)
10  const wethTokenAddress = networkConfig[network.config.chainId].wethToken
11  await approveErc20(wethTokenAddress, lendingPool.address, AMOUNT, deployer)
12  console.log("Depositing WETH...")
13  await lendingPool.deposit(wethTokenAddress, AMOUNT, deployer, 0)
14  console.log("Desposited!")
15  // Getting your borrowing stats
16  let { availableBorrowsETH, totalDebtETH } = await getBorrowUserData(lendingPool, deployer)
17  const daiPrice = await getDaiPrice()
18  const amountDaiToBorrow = availableBorrowsETH.toString() * 0.95 * (1 / daiPrice.toNumber())
19  const amountDaiToBorrowWei = ethers.utils.parseEther(amountDaiToBorrow.toString())
20  console.log(`You can borrow ${amountDaiToBorrow.toString()} DAI`)
21  await borrowDai(
22    networkConfig[network.config.chainId].daiToken,
23    lendingPool,
24    amountDaiToBorrowWei,
25    deployer
26  )
27  await getBorrowUserData(lendingPool, deployer)
28  await repay(
29    amountDaiToBorrowWei,
30    networkConfig[network.config.chainId].daiToken,
```

Eksekusi dengan perintah yarn hardhat run scripts/aaveBorrow.js

```
gitpod /workspace/new_folder/hardhat-defi-fcc (main) $ yarn hardhat run scripts/aaveBorrow.js
yarn run v1.22.19
$ /workspace/new_folder/hardhat-defi-fcc/node_modules/.bin/hardhat run scripts/aaveBorrow.js
Downloading compiler 0.4.19
Compiling 1 file with 0.4.19
Downloading compiler 0.6.12
Compiling 5 files with 0.6.12
contracts/interfaces/IERC20.sol: Warning: SPDX license identifier not provided in source file. Be
source file. Use "SPDX-License-Identifier: UNLICENSED" for non-open-source code. Please see https:

Solidity compilation finished successfully
Got 10000000000000000 WETH
Approved!
Depositing WETH...
Desposited!
You have 10000000000000000 worth of ETH deposited.
You have 0 worth of ETH borrowed.
You can borrow 8250000000000000 worth of ETH.
The DAI/ETH price is 821486400000000
You can borrow 95.40632687284902 DAI
You've borrowed!
You have 100000000276542553 worth of ETH deposited.
You have 7837499999999999999 worth of ETH borrowed.
You can borrow 4125000228147607 worth of ETH.
Approved!
Repaid!
You have 100000000470122341 worth of ETH deposited.
You have 1888527419 worth of ETH borrowed.
You can borrow 82499998499323512 worth of ETH.
Done in 23.10s.
gitpod /workspace/new_folder/hardhat-defi-fcc (main) $
```

Interaksi yang terjadi dapat juga dilihat dari dashboard alchemy

