

Bartolome, Jed Miguel O.

WD-401

Code:

ETH Price: \$3,328.27 (-1.10%)

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API Keys 3 limit

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For developers interested in building applications using our [API Service](#), please create an API-Key Token which you can then use with all your API requests.

App Name	API Key Token	API Statistics
Hello World 2	URQ3QU9FPE2CXVC9UZDGGQA75ZIRAMFUJ2H	Visit Stats
Added on 2024-04-05		
Hello World	HB5T3GHYRN8Z3MREZI48MXE4G54MKEX5GR	Visit Stats
Added on 2024-04-05		

2 keys added

```
File Edit Selection View Go Run Terminal Help
JS hardhat.config.js X HelloWorld.sol JS interact.js
JS hardhat.config.js > ...
1 /** @type import('hardhat/config').HardhatUserConfig */
2
3 /*Bartolome, Jed Miguel O.
4 WD-401*/
5
6 require('dotenv').config();
7 require("@nomiclabs/hardhat-ethers");
8 require("@nomiclabs/hardhat-etherscan");
9
10 const { API_URL, PRIVATE_KEY } = process.env;
11 const ETHERSCAN_API_KEY = process.env.ETHERSCAN_API_KEY;
12
13 module.exports = {
14   solidity: "0.7.3",
15   defaultNetwork: "sepolia",
16   networks: {
17     hardhat: {},
18     sepolia: {
19       url: API_URL,
20       accounts: [`0x${PRIVATE_KEY}`]
21     }
22   },
23   etherscan: {
24     apiKey: ETHERSCAN_API_KEY,
25   },
26 }
```

Output:

```
E:\Stuffs\Jed\4th Year\2nd Sem\BCHAIN\hello-world>npx hardhat verify --network sepolia 0x1cFD4666eb3484a3ec9De87535Cf1beAeA8Ed02c "Hello World!"
Nothing to compile
Successfully submitted source code for contract
contracts/HelloWorld.sol:HelloWorld at 0x1cFD4666eb3484a3ec9De87535Cf1beAeA8Ed02c
for verification on the block explorer. Waiting for verification result...

Successfully verified contract HelloWorld on Etherscan.
https://sepolia.etherscan.io/address/0x1cFD4666eb3484a3ec9De87535Cf1beAeA8Ed02c#code
```

Reflection:

I've learned some helpful techniques for developing smart contracts using Hardhat. By using environment variables and plugins like Hardhat-Ethers and Hardhat-Etherscan, I can keep sensitive information separate and secure. Setting the Solidity version and default network to "sepolia" ensures easy deployment and verification. Verifying deployments enhances security and promotes trust in the blockchain community. I used Hardhat's verification tool to confirm the deployment of the HelloWorld contract on the Sepolia network, which makes the contract's source code publicly available on Etherscan. These practices are important for decentralized applications, as they improve security and reliability for everyone involved.