

Hardhat Simple Storage

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JS deployjs ×
scripts > JS deployjs > ...
1 // imports
2 const { ethers, run, network } = require("hardhat")
3
4 // async main
5 async function main() {
6   const SimpleStorageFactory = await ethers.getContractFactory("SimpleStorage")
7   console.log("Deploying contract...")
8   const simpleStorage = await SimpleStorageFactory.deploy()
9   await simpleStorage.deployed()
10  console.log(`Deployed contract to: ${simpleStorage.address}`)
11  // what happens when we deploy to our hardhat network?
12  if (network.config.chainId === 4 && process.env.ETHERSCAN_API_KEY) {
13    console.log("Waiting for block confirmations...")
14    await simpleStorage.deployTransaction.wait(6)
15    await verify(simpleStorage.address, [])
16  }
17
18  const currentValue = await simpleStorage.retrieve()
19  console.log(`Current Value is: ${currentValue}`)
20
21  // Update the current value
22  const transactionResponse = await simpleStorage.store(7)
23  await transactionResponse.wait(1)
24  const updatedValue = await simpleStorage.retrieve()
25  console.log(`Updated Value is: ${updatedValue}`)
26 }
27
28 // async function verify(contractAddress, args) {
29 const verify = async (contractAddress, args) => {
30   console.log("Verifying contract...")
31   try {
32     await run("verify:verify", {
33       address: contractAddress,
34       constructorArguments: args,
35     })
36   } catch (e) {
37     if (e.message.toLowerCase().includes("already verified")) {
38       console.log("Contract already verified")
39     }
40   }
41 }
42
43 // Call the verify function
44 verify(simpleStorage.address, []).then(() => {
45   console.log("Verification complete")
46 })
47
48 // Run the main function
49 main().then(() => {
50   console.log("Main function complete")
51 })
52
53 // Export the verify function
54 module.exports = verify
```