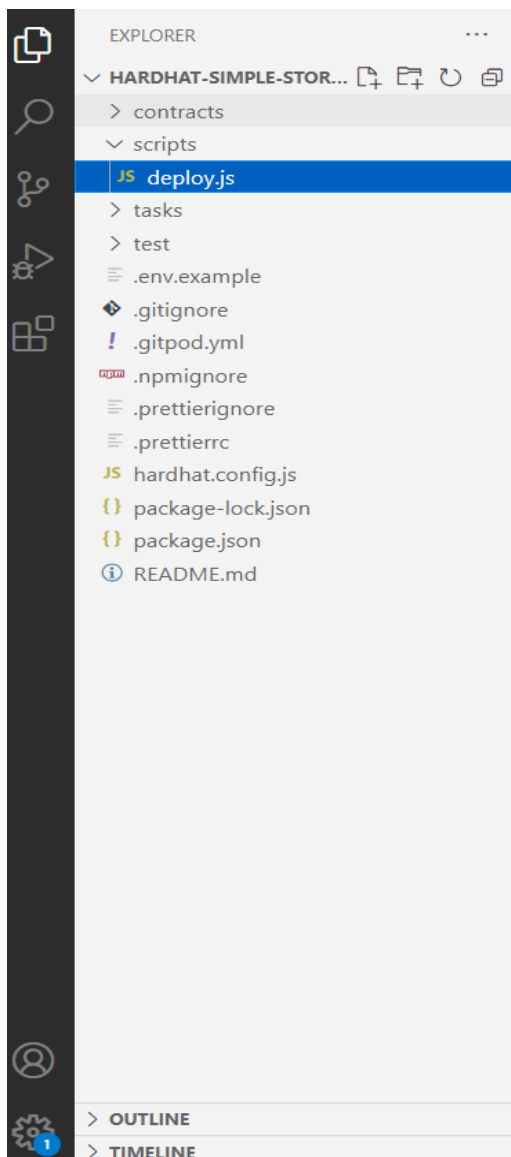


Hardhat Simple Storage



```
JS deploy.js  x
scripts > JS deploy.js > ...

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 }
```

```
38     console.log("Already Verified!")
39   } else {
40     console.log(e)
41   }
42 }
43 }
44
45 // main
46 main()
47   .then(() => process.exit(0))
48   .catch((error) => {
49     console.error(error)
50     process.exit(1)
51   })
52
```