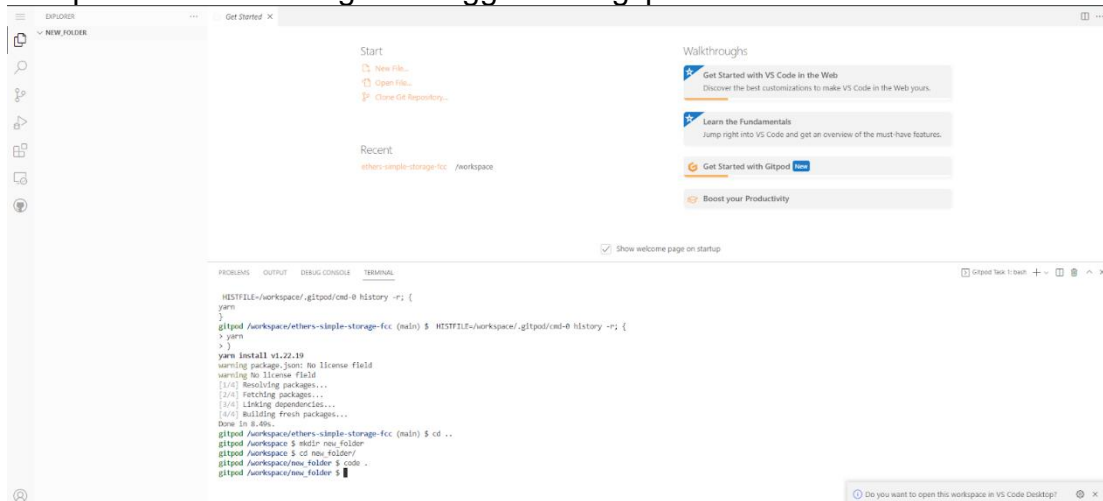
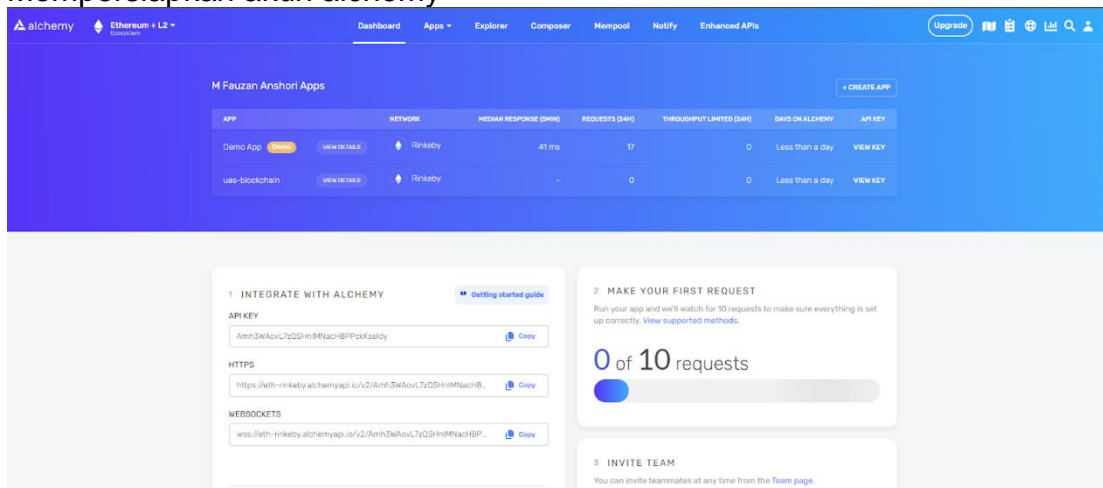


## Ethers.js Simple Storage :

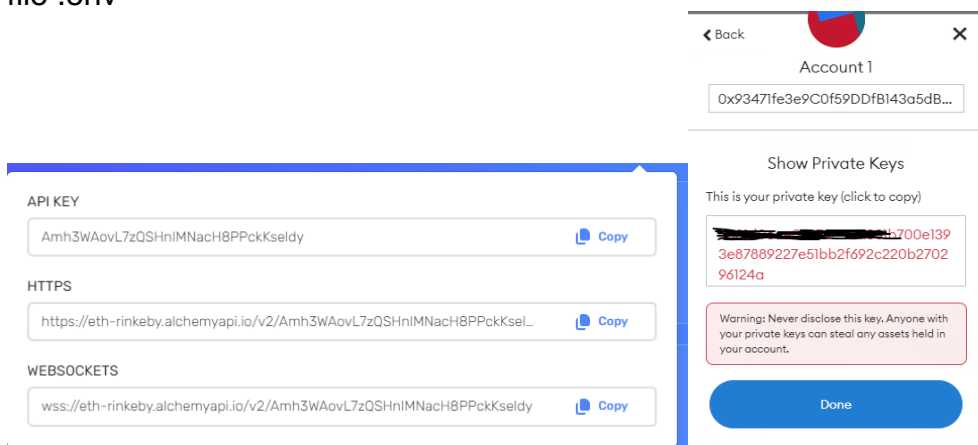
### Setup environment dengan menggunakan gitpod



### Mempersiapkan akun alchemy



Copy repo simple storage pada github ke folder baru di gitpod, Setelah itu copy rpc\_url alchemy dan private key testnet metamask dan men paste kannya kedalam file .env



Compile code yang telah dibuat dengan yarn compile dan deploy smart contract. Setelah itu akan terdapat address smart contract dan nilai favorite number


The screenshot displays a VS Code workspace for a project named 'ethers-simple-storage'. The Explorer sidebar on the left lists the project's file structure, including source files, configuration files, and compiled artifacts. The main editor window shows the 'deploy.js' file, which contains the logic for deploying a Solidity contract to a Ganache network. The code uses the ethers.js library for interacting with the blockchain and the solc library for compiling Solidity code. It sets up a provider, creates a wallet, and uses the ethers.js Wallet class to manage the deployment process. The bottom panel shows the terminal output, which includes the installation of dependencies using yarn, the execution of the deployment script, and the resulting contract address and favorite number.



```

// ethers-simple-storage > JS deploy.js > main
1  const ethers = require("ethers")
2  // const solc = require("solc")
3  const fs = require("fs-extra")
4  require("dotenv").config()
5
6  async function main() {
7      // First, compile this!
8      // And make sure to have your ganache network up!
9      let provider = new ethers.providers.JsonRpcProvider(process.env.RPC_URL)
10     let wallet = new ethers.Wallet(process.env.PRIVATE_KEY, provider)
11     // const encryptedJson = fs.readFileSync("./.encryptedKey.json", "utf8");
12     // let wallet = new ethers.Wallet.fromEncryptedJsonSync(
13     //     encryptedJson,
14     //     process.env.PRIVATE_KEY_PASSWORD
15     // );
16     // wallet = wallet.connect(provider);
17     const abi = fs.readFileSync("./SimpleStorage_sol_SimpleStorage.abi", "utf8")
18     const binary = fs.readFileSync(
19         "./SimpleStorage_sol_SimpleStorage.bin",
20         "utf8"
21     )
22
23     requireStack: [ 'workspace/new_folder/ethers-simple-storage/deploy.js' ]
24 }
25
26 gitpod /workspace/new_folder/ethers-simple-storage (main) $ yarn
27 yarn install v1.22.19
28 warning package.json: No license field
29 warning No license field
30 [1/4] Resolving packages...
31 [2/4] Fetching packages...
32 [3/4] Linking dependencies...
33 [4/4] Building fresh packages...
34 Done in 2.51s.
35 gitpod /workspace/new_folder/ethers-simple-storage (main) $ yarn compile
36 yarn run v1.22.19
37 warning package.json: No license field
38 $ yarn solcjs --bin --abi --include-path node_modules/ --base-path . -o . SimpleStorage.sol
39 warning package.json: No license field
40 $ /workspace/new_folder/ethers-simple-storage/node_modules/.bin/solcjs --bin --abi --include-path node_modules/ --base-path . -o . SimpleStorage.sol
41 Done in 6.07s.
42 gitpod /workspace/new_folder/ethers-simple-storage (main) $ node deploy.js
43 Deploying, please wait...
44 Contract deployed to 0x01A3a61677A731F93C8624C5D533d654B80761
45 Current Favorite Number: 0
46 Updating favorite number...
47 New Favorite Number: 7
48 gitpod /workspace/new_folder/ethers-simple-storage (main) $

```

Bila dilihat dalam etherscan, address tersebut telah terbuat dan beberapa interaksi sebelumnya juga dapat dilihat pada transactions.


**Contract** 0x01A3a61677A731F93c8624C5D533d6564Bb80761

Contract Overview

Balance:

0 Ether

More Info

My Name Tag:


Not Available

Contract Creator:

0x93471fe3e9c0f59ddf... at txn 0xc1a8b9b5e5ffa8e4112...

Transactions


Erc20 Token Txns










Contract 

Events

IF

Latest 2 from a total of 2 transactions



Txn Hash	Method 	Block	Age	From 	To 	Value	Txn Fee
 0x73daf169bd050a2903...	Store	10992389	11 mins ago	0x93471fe3e9c0f59ddf...	IN  0x01a3a61677a731f93c...	0 Ether	0.00010931 
 0xc1a8b9b5e5ffa8e4112...	0x60006040	10992388	11 mins ago	0x93471fe3e9c0f59ddf...	IN  Contract Creation	0 Ether	0.00115902 

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