

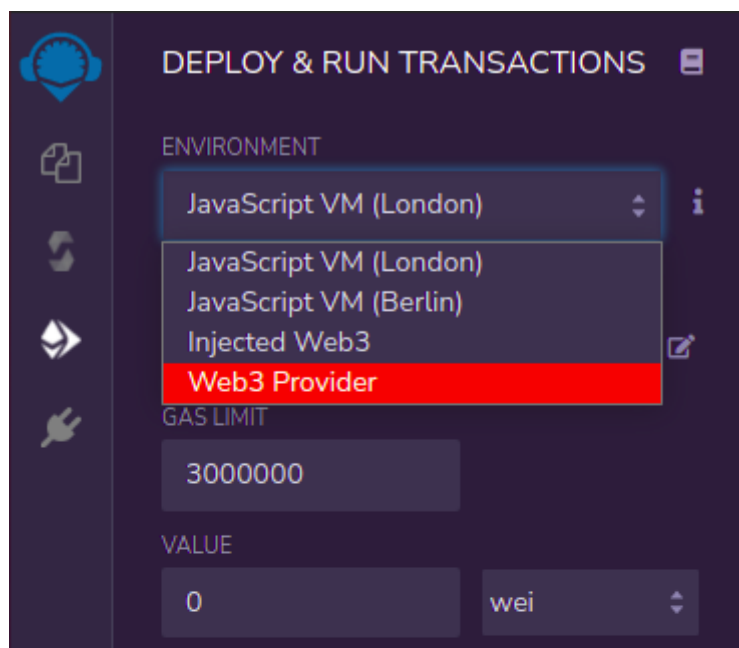
- Cài đặt Ganache CLI:
`sudo npm install -g ganache-cli`
- Chạy Ganache CLI:
`ganache-cli`

```
hoanglv@T480 ~$ ganache-cli
Ganache CLI v6.12.2 (ganache-core: 2.13.2)

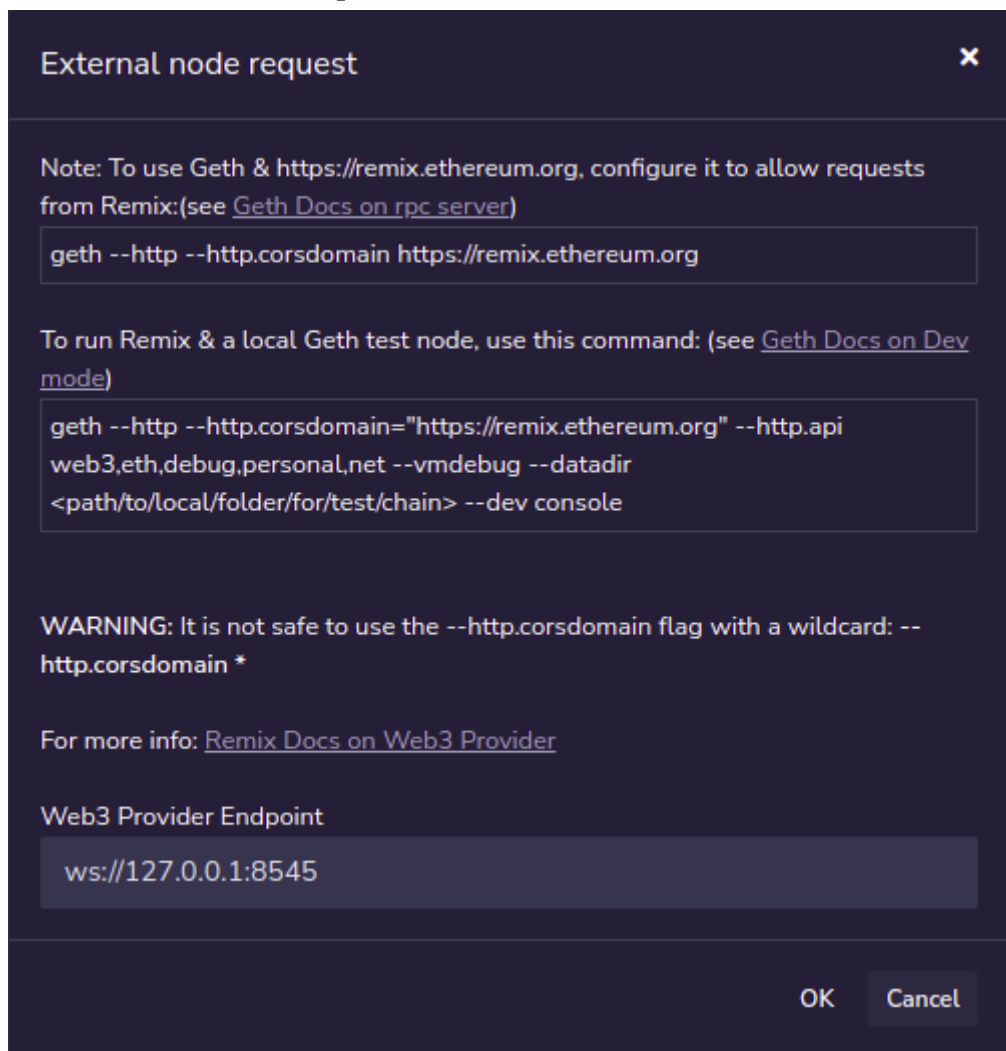
Available Accounts
=====
(0) 0x00EE65a26345F3f623425F88CA3755Caa605f34F (100 ETH)
(1) 0x1C01f9DdB27c306494E805efF01C32018734Eb16 (100 ETH)
(2) 0xC2C586E009a0B94311735D6323BeE8dB07774020 (100 ETH)
(3) 0xE76244a2a299b7046A453807F629eD36e8f3A195 (100 ETH)
(4) 0x2AdbfF3B96Dfc20349Ff0b660EA926575CD9BE0E (100 ETH)
(5) 0xE0aA4030E5cFC9d4a9D9A13847D44cC4d5Cb05D0 (100 ETH)
(6) 0x11324E7B605b95936F979278aE5D1F87DF5e4d75 (100 ETH)
(7) 0x558769d8075ab2AA869e840Afb343791B3C7c84b (100 ETH)
(8) 0x2eEf585633A2e6d21771633635A7a3c6b418A767 (100 ETH)
(9) 0x89e11aed285C5A00Ca0d0e91b73b97Ebb8DCbb54 (100 ETH)

Private Keys
=====
(0) 0x19a096495dad1143b2451b08411679669b0a1635b1b03d2b4f530a790519eb4e
(1) 0xa01ddb484d7965fc86220ac07cb83ff3809c371d57dd4acc880fcdbe13e31bdb
(2) 0x95ba9632c715e1ac7f336a60e8d4d3b90edb8a04721529c26d6ecd303d0153a4
(3) 0xd311be0e548f98032e6c31afeac0b024031b4da716b4a976af15b9f7e3dfd458
(4) 0xa514e1db8e2cb05aad06d8a50bfadf6869d4f7a7bde66aea1cfc7dea13901ed
(5) 0xb097363a3ad056fa9539fdbffe809e229d6a5f5ac9b4f40c0e441c4b4b73cbff
(6) 0x95303bd63ed1e6605c35a921e70050e4839be4497ce7abb73490fe009461b4b8
(7) 0x1bcb0bb67017b75bf150dac69100c01fc1660ccd4ed0b239e7a4d1c153af8a37
(8) 0x716353d9dceccd2745e9ee24800c742d3b594f72252ee1efbbf4a134f3b6feeb
(9) 0xfe4190815a6f0901372d4038f5690dfbe497dcc9ad316b16315a20d995ae6a20
```

- Truy cập <https://remix.ethereum.org>. Tại tab DEPLOY & RUN TRANSACTIONS, thay đổi ENVIRONMENT thành Web3 Provider.



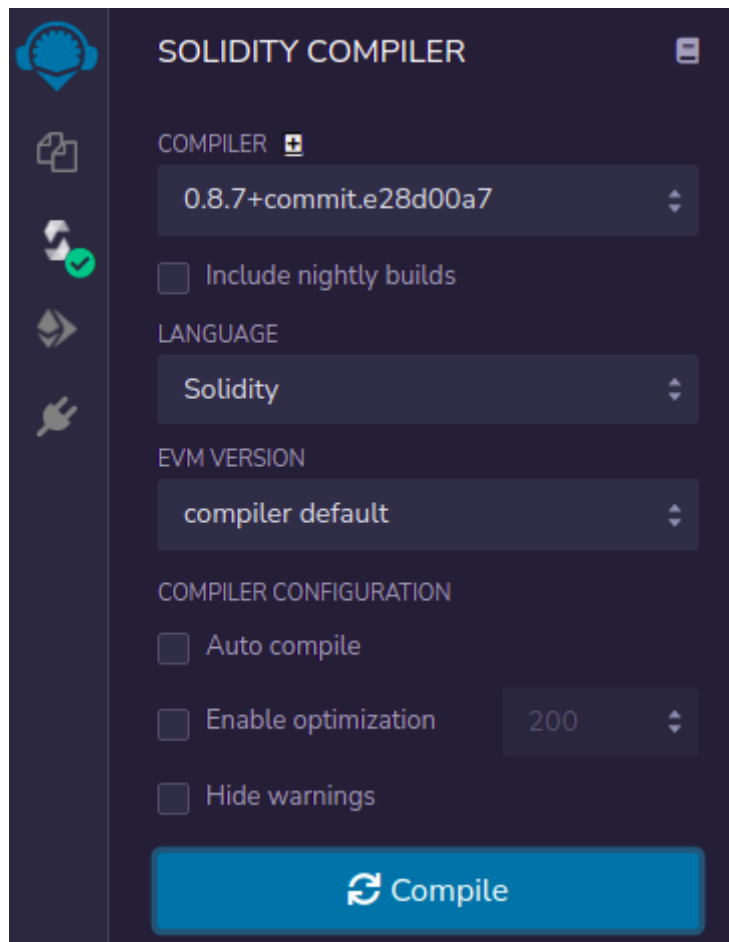
- Sau đó đặt Web3 Provider Endpoint thành ws://127.0.0.1:8545



- Tạo một file mới có tên là mycontract.sol. Bắt đầu lập trình smart contract của bạn



- Vào tab SOLIDITY COMPILER, ấn Compile



- Ta thu được kết quả như bên dưới. Copy ABI rồi past vào biến abi trong file script.js



```

10 // This is the ABI for your contract (get it from Remix, in the 'Compile' tab)
11 // =====
12 var abi = [
13   {
14     "inputs": [
15       {
16         "internalType": "address",
17         "name": "_creditor",
18         "type": "address"
19       },
20       {
21         "internalType": "int256",
22         "name": "_amount",
23         "type": "int256"
24       },
25       {
26         "internalType": "uint256",
27         "name": "_time",
28         "type": "uint256"
29       }
30     ],
31     "name": "addCreditor",
32     "outputs": [],
33     "stateMutability": "nonpayable",
34     "type": "function"
35   },
36   {
37     "inputs": [
38       {
39         "internalType": "address",
40         "name": "_debtor",
41         "type": "address"
42       }
43     ],
44     "name": "addDebtor",
45     "outputs": [],
46     "stateMutability": "nonpayable",
47     "type": "function"
48   },
49   {
50     "inputs": [
51       {
52         "internalType": "address",
53         "name": "_creditor",
54         "type": "address"

```

- Vào tab DEPLOY & RUN TRANSACTIONS, ấn Deploy

DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

Web3 Provider ⌵ i

Custom (1634140667131) network

ACCOUNT +

0x910...bbc32 (99.9719875) ⌵ 📋 ✎

GAS LIMIT

3000000

VALUE

0 wei ⌵

CONTRACT

MyContract - mycontract.sol ⌵

Deploy

☐ Publish to IPFS

- Ta thu được kết quả bên dưới. Copy address rồi past vào biến contractAddress trong file script.js

Transactions recorded 1 ⌵

Deployed Contracts 🗑️

➤ MYCONTRACT AT 0XD91...39138 (MEM) 📋 ✕

```
257 var contractAddress = '0xaa157c739b2B0DB640fE46935e8Eb26DdD1BF034'; // FIXME: fill this in with your contract's address/hash
```