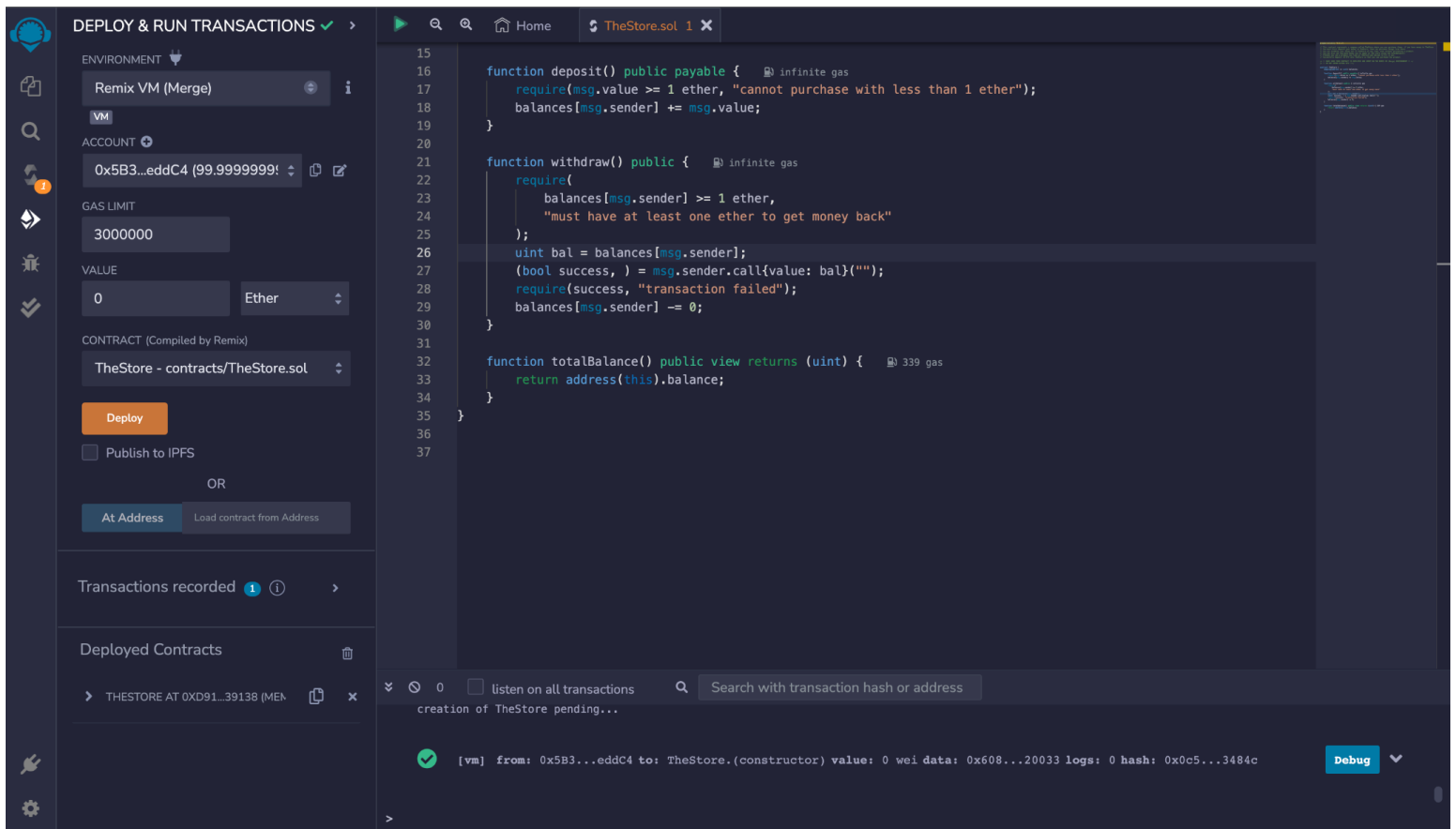


## Smart Contract Vulnerabilities

This level will teach you how to get started with interacting with a solidity smart contract and accounts on the blockchain via solidity code. Follow the steps below to capture the flag.

### Setup: Successfully build and deposit money into a Smart Contract

1. Go to <https://remix.ethereum.org/>
2. Upload and open the contract titled TheStore.sol
3. Compile then on the left side of the screen, click on “Deploy and run transactions”
4. Make sure the environment is Remix VM (Merge) (!! Do not connect your wallet or deploy this contract on main-net !!)
5. Deploy Contract by clicking yellow Deploy button



6. Successfully deposit 10 ETH into TheStore
  - a. Under the VALUE section, enter 10 and then change currency from Wei to Ether
  - b. Underneath deployed contracts, click the dropdown for 'THESTORE AT 0x.....'
  - c. Click the red deposit button
  - d. Balance of the contract should now be 10 ETH

### **Challenge: Steal all the money from TheStore**

*TheStore.sol contract had a huge vulnerability in it. Can you exploit it??*

1. Upload and open the contract Attack.sol
2. Finish writing this contract such that it exploits the vulnerability and steals all the money from TheStore.
3. Deploy contract and run the attack using a different account.
4. At the end of the attack, there should be 0 ETH in TheStore account and at least 10 ETH in the Attacker account.
5. Click checkFlag when you have successfully completed the challenge

HINT: There is a re-entrancy vulnerability!