Audit Report Generate by X Auditor Al



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Token Detail

Token Name DeepL

Contract Address 0xd0bcB2c156a3507670f9BedC319a6409C41bA68E

Token Symbol DeepL

Holders 100

Buy Tax 5%

Sell Tax 5%

is Contract Verified Verified

is Proxy Contract No

is Honeypot No

Anti-Whale Function Yes

Mintable Function No.

Fake Renounce No.

Hidden Owner No

Blacklist Function No.

Whitelist Function Yes

Trading Cooldown Function Yes

selfDestruct Function No

Transfer Pauseable No

Owner Can Change Taxes No

Owner Can Change Balance No

Automated Audit Report

Solidity assert violation (SWC-110)

Severity: *PASSED*

Integer overflow/underflow (SWC-101)

Severity: *PASSED*

Potential weak source of randomness (SWC-120)

Severity: Low

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Uninitialized Storage Variables (SWC-109)

Severity: *PASSED*

Unprotect Withdraw ETH (SWC-105)

Severity: *PASSED*

Loop Over Unbounded Data Structure (SWC-128)

Severity: *PASSED*

Outdated compiler version (SWC-102)

Severity: *PASSED*

Unused State/Local Variable (SWC-131)

Severity: *PASSED*

Deprecated Global Variables/Function (SWC-111)

Severity: *PASSED*

State Variable Visibility (SWC-108)

Severity: *PASSED*

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Vulnerabilities Found:

- 1. **Lack of Proper Access Control**:
- The `transferDelayEnabled`, `swapEnabled`, `tradingOpen`, and `_maxTxAmount` variables can be changed by anyone since there is no access control mechanism in place to restrict these changes to only the contract owner. This can lead to potential misuse of these variables.
 - 2. **Potential Reentrancy Vulnerability**:
- In the `swapTokensForEth` function, there is a call to an external contract (`uniswapV2Router`) to swap tokens for ETH. This external call should be the last action to prevent potential reentrancy vulnerabilities due to an external contract call.
 - 3. **Unsigned Integer Underflow**:
- In the `_balances` subtraction in the `_transfer` function, there is a risk of underflow if the `amount` is greater than the balance of the `from` address. Consider adding a check to ensure that the balance is sufficient before subtracting it.
 - 4. **Front-Running Attack**:
- The current implementation lacks a mechanism to handle potential front-running attacks during token transfers, particularly in the `_transfer` function. Consider implementing safeguards to mitigate the risk of front-running attacks.

Recommendations:

- 1. **Access Control**:
- Implement proper access control modifiers like `onlyOwner` to restrict access to critical functions and variables only to the

contract owner.

2. **Avoid Reentrancv**:

- Ensure that external contract calls are made as the last action within a function to prevent reentrancy vulnerabilities. Consider using the `nonReentrant` modifier or similar protection methods.

3. **Safe Math Operations**:

 Apply safe math operations using the `SafeMath` library consistently to prevent underflow and overflow errors in integer calculations.

4. **Front-Running Mitigation**:

- Implement techniques like the use of `block.timestamp` or `block.number` to introduce randomness in function execution order to mitigate front-running attacks.

5. **Code Review and Testing**:

- Conduct thorough code reviews and extensive testing to identify and address any potential vulnerabilities or logic flaws in the smart contract.

By addressing these vulnerabilities and implementing the recommended best practices, you can enhance the security and robustness of the smart contract.

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