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MoveZ BEP20 Token Audit Report

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1. Project Information

1.1 Project Scope

This audit process pertains to MoveZ Web3 stepping platform provided by the MOVEZ development team in May, 2022. The files within scope of this audit are:

File	MD5
Movez.sol	b5147de81a5c85013a51c6bd7ca29ddf

And can be found here on commit 5f484a0b4bc495ce68df3ce8be19c9d138d6e3e8.

The MoveZ BEP20 contract has been successfully audited by The Blockchain Auditor. This is not an endorsement of the MoveZ token and The Blockchain Auditor always recommends that code is audited by as many independent security firms as possible. That being said, we do our upmost to get contracts mainnet deployment ready.

1.2 Issue Classification

Informational

This issue relates to style and security best practices but does not pose an immediate risk.

Low

An issue classified as informational does not pose an immediate threat to disruption of functionality and could not be exploited on a recurring basis, however, it should be considered for security best practices or code integrity.

Medium

An issue classified as medium has relatively small risk and isn't exploitable to circumvent desired functionality and could not have financial consequences but could put user's sensitive information at risk.

Critical

These issues in the smart contract can have catastrophic implications that could ruin your reputation, disrupt the contract's functionality, and impact the client and your user's sensitive information.

1.3 Issues We Look For

Best code practices ERC/BEP compliance Logical bugs
Locked BSC Weak PRNG Unchecked call return method
Code with no effects Function visibility
Re-entrancy Over/Under Flows
External Contract Referencing Short Address Parameter Attacks
Race Conditions / Front Running Uninitialized Storage Pointers
Floating Points and Precision Signatures Replay

2. Process Details

2.1 Analysis

This audit is a review of security best practices of the MoveZ Platform. This audit process pertains to a BEP20 token provided by the MoveZ dev team at the following url:

https://testnet.bscscan.com/address/0x012a68f889918186c7798ec6241c52ca03e415

and the tests and analysis can be found here:

https://github.com/martinezjorge/movez-bsc-audit

The entire platform was built using the industry standard smart contracts from @openzeppelin/contracts which is code that has been thoroughly audited and battle tested. In addition, the code built on top of the OpenZeppelin libraries also has a proven track record. The LGEWhitelisted contract has been used many times and was succesful in protecting the whitelisted users as well as the liquidity from liquidity bots. The MoveZ token also builds on top of Uniswap contracts that have also undergone numerous audits and production use.

0	0	0	2
Critical Issues	Medium Issues	Low Issues	Informational Issues

In this analysis, we found 2 informational issues to provide some contract optimizations..

2..2 Auditing Process

As always we took great care to build a testing environment that most realistically simulates mainnet. We attempted to break the code every way possible and found suffiicient checks throughout the contract to prevent users from being able to exploit the contracts. We also verified the behavior of the contract and saw that users will be able to interact with both the liquidity pool pair contract as expected. The results of our tests can be found below.

2.3 Test Results

```
MOVEZ
  Deployment
    ✓ Should be named MOVEZ.me
    ✓ Should have 18 decimals
    ✓ Should have MOVEZ as the symbol
    ✓ it is owned by deployer after deployment
    ✓ should have a cap for 5 billion tokens
  Configuration
    ✓ lets the owner change the router address
    ✓ allows the owner to set fees
    ✓ does not let the owner set sum of the fees to be higher than 100%
    ✓ does not let the owner set the feeEcoAddress to the zero address
    ✓ does not let the owner set the fee fund address to the zero address
    ✓ does not let the owner set an invalid swap path
    ✓ does not allow the owner to mint more than the cap amount (38ms)
    ✓ maintains a fixed decreased cap if tokens are burned
  Ownership
    ✓ should allow owner to call transfer ownership
    ✓ allows the owner to renounce ownership
  Blacklist
    ✓ lets you blacklist users that are not allowed to trade (61ms)
  No Whitelist
    ✓ allows the owner to create a whitelist
    ✓ should return whitelist round of 0
  LGE Whitelist
    ✓ should return whitelist round of 1
    ✓ lets the owner modify a whitelist round duration
    ✓ lets the owner modify a whitelist round max amount
    ✓ allows the owner to add accounts to the whitelist
    ✓ allows the owner to remove people from the whitelist
    ✓ lets a whitelisted user buy up to the amount max (42ms)
    ✓ prevents unwhitelisted users from purchasing tokens during whitelist round (62ms)
    ✓ only lets whitelisted users purchase tokens up to the amount max (39ms)
    ✓ allows the whitelisted to relinquish whitelist privileges
    ✓ allows the whitelisted to transfer whitelist privileges
  Selling Tokens
    ✓ should apply a fee when users sell tokens the pool (65ms)
    ✓ accumulates fees in contract if router is set to the zero address (48ms)
    ✓ lets the owner get funds out of contract if the router is not set (65ms)
    ✓ allows holders to give an allowance to others


  32 passing (2s)

-------------|----------|----------|----------|----------|----------------
File         |  % Stmts | % Branch |  % Funcs |  % Lines |Uncovered Lines
-------------|----------|----------|----------|----------|----------------
contracts/   |     86.1 |    57.76 |    79.17 |    85.65 |
 Movez.sol   |    87.19 |    58.33 |       80 |    86.67 |... 520,523,524
 WETH9.sol   |       75 |       50 |    71.43 |       75 | 24,25,26,27,31
-------------|----------|----------|----------|----------|----------------
All files    |     86.1 |    57.76 |    79.17 |    85.65 |
-------------|----------|----------|----------|----------|----------------
```

Great care by the MoveZ development team and The Blockchain Auditor was taken to provide the safest smart contract platform possible. The contracts were scoured any potential vulnerabilities and the team was receptive to our firms feedback. We look forward the MoveZ launch and what affect this platform will have on the Blockchain industry and everyone's lives.

The Blockchain Auditor