

Smart Contract Audit

FOR

Trump 2024

DATED: 2 Feb, 2024



AUDIT SUMMARY

Project name - Trump 2024

Date: 2 Feb, 2024

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	1	1	2
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0x29d54d462ff2ceb2898d04449ccd098218b4b346#code



Token Information

Token Name: Trump 2024

Token Symbol: TRUMP2024

Decimals: 9

Token Supply: 4200000000000000000

Network: BscScan

Token Type: BEP-20

Token Address:

0x20c3d8152FAE9e8c1126F76B1dad4a6Ab5390420

Checksum:

A2032c616934aeb47e6039f76b20d200

Owner:

Oxf4CefB442c9C390C67bfFa8D8AD2Fc256Ba00d1a (at time of writing the audit)

Deployer:

0xf4CefB442c9C390C67bfFa8D8AD2Fc256Ba00d1a



TOKEN OVERVIEW

Fees:

Buy Fee: 9%

Sell Fee: 9%

Transfer Fee: 0-0%

Fees Privilege: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.

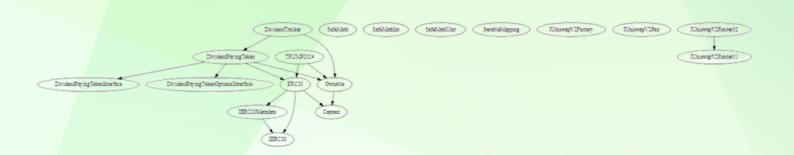


VULNERABILITY CHECKLIST





INHERITANCE TREE





STATIC ANALYSIS

A static analysis of the code was performed using Slither. No issues were found.

```
INFO:Detectors:

DividendPayingToken.constructor(string, string, address)._name (TRUMP2024.sol#582) shadows:

- ERC20._name (TRUMP2024.sol#39) (state variable)

DividendPayingToken.constructor(string, string, address)._symbol (TRUMP2024.sol#582) shadows:

- ERC20._symbol (TRUMP2024.sol#40) (state variable)

DividendPayingToken.dividendOf(address)._omer (TRUMP2024.sol#600) shadows:

- Omnable._omer (TRUMP2024.sol#20) (state variable)

DividendPayingToken.withdrawableDividendOf(address)._omer (TRUMP2024.sol#604) shadows:

- Omnable._omer (TRUMP2024.sol#20) (state variable)

DividendPayingToken.withdrawableJuvidendOf(address)._omer (TRUMP2024.sol#604) shadows:

- Omnable._omer (TRUMP2024.sol#604) (state variable)

DividendPayingToken.withdrawableJuvidendOf(address)._omer (TRUMP2024.sol#602) shadows:

- Omnable._omer (TRUMP2024.sol#602) (state variable)

DividendPayingToken.accumulativeDividendOf(address)._omer (TRUMP2024.sol#602) shadows:

- Omnable._omer (TRUMP2024.sol#20) (state variable)

DividendPayingToken.accumulativeDividendOf(address)._omer (TRUMP2024.sol#602) shadows:

- Omnable._omer (TRUMP2024.sol#20) (state variable)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

INFO:Detectors:

DividendPayingToken.comstructor(string.string.address)._remardToken (TRUMP2024.sol#802) lacks a zero-check on:

- swapTokonstranumt = sendmenumt (TRUMP2024.sol#803)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation

INFO:Detectors:

DividendPayingToken._suthdrawaDividendOfUser(address)._remardToken (TRUMP2024.sol#803)

- rewardToken = remardToken (TRUMP2024.sol#803)

INFO:Detectors:

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation/#scalls-inside-a-loop

INFO:Detectors:

- amount = _withdrawablividendOfUser(address).organia-sol#803)

- amount = _withdrawablividendOfUser(address).organia-sol#803)

State variables withen after the call(s):

- amount = _withdrawablividendOfUser(account) (TRUMP2024.s
```



STATIC ANALYSIS

INFO:Detectors: DividendTracker.getAccount(address) (TRUMP2024.sol#738-781) uses timestamp for comparisons Dangerous comparisons: - nextClaimTime > block.timestamp (TRUMP2024.sol#778-780) DividendTracker.canAutoClaim(uint256) (TRUMP2024.sol#802-808) uses timestamp for comparisons Dangerous comparisons: - lastClaimTime > block.timestamp (TRUMP2024.sol#803) - block.timestamp.sub(lastClaimTime) >= claimWait (TRUMP2024.sol#807) Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp TRUMP2024._transfer(address,address,uint256) (TRUMP2024.sol#1032-1138) has a high cyclomatic complexity (17). Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#cyclomatic-complexity Context._msgData() (TRUMP2024.sol#18-20) is never used and should be removed DividendPayingToken._transfer(address,address,uint256) (TRUMP2024.sol#637-643) is never used and should be removed SafeMath.div(uint256,uint256) (TRUMP2024.sol#87-89) is never used and should be removed SafeMath.div(uint256,uint256,string) (TRUMP2024.sol#91-97) is never used and should be removed SafeMath.mod(uint256,uint256) (TRUMP2024.sol#99-101) is never used and should be removed SafeMath.mod(uint256,uint256,string) (TRUMP2024.sol#103-106) is never used and should be removed SafeMathInt.abs(int256,int256) (TRUMP2024.sol#138-141) is never used and should be removed SafeMathInt.div(int256,int256) (TRUMP2024.sol#121-127) is never used and should be removed SafeMathInt.mul(int256,int256) (TRUMP2024.sol#113-120) is never used and should be removed TRUMP2024.isContract(address) (TRUMP2024.sol#994-996) is never used and should be removed Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code INFO:Detectors: Pragma version0.8.17 (TRUMP2024.sol#11) allows old versions solc-0.8.17 is not recommended for deployment Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

INFO: Detectors

INFO: Detectors:

. SafeMathInt.MAX_INT256 (TRUMP2024.sol#111) is never used in SafeMathInt (TRUMP2024.sol#109-146) ference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

Low level call in TRUMP2024.sendBNB(address,uint256) (TRUMP2024.sol#998-1003): (success) = recipient.call{value: amount}() (TRUMP2024.sol#1001) Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

INFO:Detectors:

TRUMP2024.gasForProcessing (TRUMP2024.sol#915) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

INFO:Detectors:

TRUMP2024.burnFeeOnBuy (TRUMP2024.sol#888) should be immutable TRUMP2024.burnFeeOnSell (TRUMP2024.sol#894) should be immutable TRUMP2024.dividendTracker (TRUMP2024.sol#913) should be immutable TRUMP2024.marketingFeeOnBuy (TRUMP2024.sol#889) should be immutable TRUMP2024.marketingFeeOnSell (TRUMP2024.sol#895) should be immutable TRUMP2024.rewardsFeeOnBuy (TRUMP2024.sol#890) should be immutable TRUMP2024.rewardsFeeOnSell (TRUMP2024.sol#896) should be immutable TRUMP2024.totalBuyFee (TRUMP2024.sol#892) should be immutable TRUMP2024.totalSellFee (TRUMP2024.sol#898) should be immutable TRUMP2024.uniswapV2Pair (TRUMP2024.sol#903) should be immutable TRUMP2024.uniswapV2Router (TRUMP2024.sol#902) should be immutable

https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable INFO:Slither:TRUMP2024.sol analyzed (18 contracts with 93 detectors), 70 result(s) found



FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0x3ccef6c394e269d5e2bcc0ff7c179de8598 8cc7eeacb72325b76f84798b69d99

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x2eb5fcc37fd0f06b15a2e091637e7dbb7dfd 7ba7cf0ada83ecb892dcb4217e75

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x255f41d78d8430e141b6b6247f167076fe7 872783f4ba2bf205a54e0fced5b0f

4- Exclude From Fees (passed):

https://testnet.bscscan.com/tx/0x3a0943bbfb4dcad5da436f60ed3a3b6306 8d339e50dcbafd3129777bd3d15d20

5- Exclude From Dividends (passed):

https://testnet.bscscan.com/tx/0xf969bb25465bb89b439b546cebc3054e86 0755c693fcf4adde183f6b8234d394

6- Update Marketing Wallet (passed):

https://testnet.bscscan.com/tx/0xb0cb146bb8569fa1e25981d7d5e9b0a4a69b513cb7a1ad1a5f22c138510f2d12



POINTS TO NOTE

- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can distribute dividends amount.
- The owner can update the minimum token balance for dividends.
- The owner can exclude the account from dividends.
- The owner can update claim wait.
- The owner can update marketing wallet addresses.
- The owner can set balance.
- The owner can claim stuck tokens
- The owner can exclude wallet from fees.
- The owner can set swap tokens at amount.
- The owner can exclude the account from dividends.



CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	0
♦ Medium-Risk	1
♦ Low-Risk	1
Gas Optimization /Suggestions	2



Centralization - Missing Require Check

Severity: Medium

Subject: updateMarketingWallet

Status: Open

Overview:

The owner can set any arbitrary address excluding zero address as this is not recommended because if the owner will set the address to the contract address, then the Eth will not be sent to that address and the transaction will fail and this will lead to a potential honeypot in the contract.

```
function updateMarketingWallet(address newWallet) external onlyOwner {
    require(newWallet != address(0), "Fee Address cannot be zero address");
    marketingWallet = newWallet;
}
```

Suggestion:

It is recommended that the address should not be able to set as a contract address.



Centralization - Missing Events

Severity: Low

Subject: Missing Events

Status: Open

Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

Suggestion:

It is recommended that the address should not be able to set as a contract address.



Optimization

Severity: Informational

Subject: Remove Safe Math

Status: Open

Line: 57-107

Overview:

compiler version above 0.8.0 can control arithmetic overflow/underflow, it is recommended to remove the unwanted code to avoid high gas fees.



Optimization

Severity: Optimization

Subject: Remove unused code

Status: Open

Overview:

Unused variables are allowed in Solidity, and they do not pose a direct security issue. It is the best practice, though to avoid them.

```
function _msgData() internal view virtual returns (bytes calldata) {
    return msg.data;
}
event UpdateUniswapV2Router(address indexed newAddress, address indexed
oldAddress);
event UpdateDividendTracker(address indexed newAddress, address indexed
oldAddress);
event GasForProcessingUpdated(uint256 indexed newValue, uint256 indexed oldValue);
function isContract(address account) internal view returns (bool) {
    return account.code.length > 0;
}
```



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