

Smart Contract Audit

FOR

Minnielnu

DATED: 7 June 23'



AUDIT SUMMARY

Project name - Minnielnu

Date: 7 June, 2023

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	0	0	0
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:

Contract has been tested on binance smart chain testnet which can be found in below link: https://testnet.bscscan.com/address/0x93D0FE0Fb665 A06277e0FB54D310d3AF3e75D7BC



Token Information

Token Name: Minnielnu

Token Symbol: \$MINNIE

Decimals: 18

Token Supply: 1,000,000,000

Token Address:

0xc608A97B2483207EC20DCfe4162540b4351d2836

Checksum:

ae134d3ed4aa4e1dea8d0c9251e45f3810009957

Owner:

0xd6883bAc3ac3d6D3feda3939017dB1468F2D827b

Deployer:

0xbC63f84B8d91de6C963d85D478af69E9fa776E20



TOKEN OVERVIEW

Fees:

Buy Fees: 0-10%

Sell Fees: 0-10%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership: Owned

Minting: None

Max Tx Amount/ Max Wallet Amount: Yes

Blacklist: No

Other Privileges: - initial distribution of tokens

- including or excluding from fees
- changing swap threshold and modifying fees



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





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.

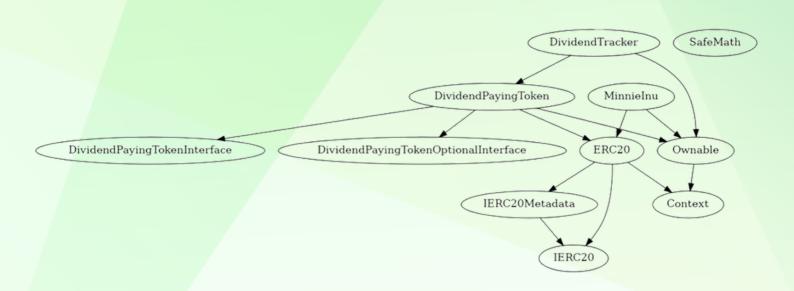
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is able to change buy/sell fees in range 0-10%
- Owner is not ablet o set transfer taxes (0% forever)
- Owner is not able to set max buy/sell/transfer/hold amount
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to mint new tokens
- Owner is not able to disable trades
- Trades are already enabled for public
- Token has BNB rewards with auto-distribution
- · Fees are used for rewards (BNB) and marketing



```
| Contract |
                Type
                             Bases
**Function Name** | **Visibility** | **Mutability** | **Modifiers** |
\Pi\Pi\Pi\Pi
**Context** | Implementation | |||
| L | _msgSender | Internal 🔒 | | |
| L | msgData | Internal 🔒 | | |
**Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | | NO | |
Lowner | Public | NO | |
📙 | renounceOwnership | Public ! | 🛑 | onlyOwner |
📙 | transferOwnership | Public 📗 | 🌘 | onlyOwner |
| L | transferOwnership | Internal 🔒 | 🛑 | |
| **SafeMath** | Library | | | |
| L | add | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | mod | Internal 🔒 | | |
| L | mod | Internal 🔒 | | |
111111
| **SafeMathInt** | Library | | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | add | Internal 🔒 | | |
| L | abs | Internal 🔒 | | |
| L | toUint256Safe | Internal 🔒 | | |
1111111
| **SafeMathUint** | Library | | | |
| L | toInt256Safe | Internal 🔒 | | |
111111
| **IterableMapping** | Library | | | |
| L | get | Internal 🔒 | | |
| L | getIndexOfKey | Internal 🔒 | | |
| L | getKeyAtIndex | Internal 🙃 | | |
| L | size | Internal 🔒 | | |
| L | set | Internal 🔒 | 🛑 | |
```



```
| L | remove | Internal 🔒 | 🛑 | |
\Pi\Pi\Pi\Pi\Pi
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | | |
| | | feeToSetter | External | | NO | |
| L | allPairs | External | | NO | |
| L | allPairsLength | External | | NO | |
| L | setFeeTo | External | | | NO | |
111111
**IUniswapV2Pair** | Interface | |||
| L | name | External | | NO | | | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | NO | |
| L | DOMAIN SEPARATOR | External | | NO | |
| L | PERMIT_TYPEHASH | External | | NO | |
| L | nonces | External | | NO | |
| L | permit | External | | | NO | |
| L | MINIMUM LIQUIDITY | External | | NO | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | NO | |
| L | price0CumulativeLast | External | | NO | |
| L | price1CumulativeLast | External | NO | |
| L | kLast | External | | NO | |
| L | mint | External | | | NO | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | | NO | |
| L | initialize | External | | | | NO | |
111111
```



```
**IUniswapV2Router01** | Interface | |||
L | factory | External | NO | |
| L | WETH | External | | NO | |
L | addLiquidity | External | | | NO | |
| L | addLiquidityETH | External | | 1 NO | |
L removeLiquidityETH | External | |  NO | |
| | swapExactTokensForTokens | External | | | NO | |
| | swapTokensForExactTokens | External | | | NO | |
L | swapExactETHForTokens | External | | 1 NO | |
| L | swapTokensForExactETH | External | | | NO | | |
| L | swapExactTokensForETH | External | | | | NO | |
| L | quote | External | | NO | |
| L | getAmountOut | External | | NO | |
| L | getAmountin | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
IIIIIII
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | | NO | |
L | swapExactETHForTokensSupportingFeeOnTransferTokens | External | | 1 NO | |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
1111111
| **IERC20** | Interface | | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | transfer | External | | | NO | |
| L | approve | External | | | | NO | |
| L | transferFrom | External | | | | NO | |
\parallel \parallel \parallel \parallel \parallel \parallel \parallel
| **Address** | Library | | | |
| L | isContract | Internal 🔒 | | |
| L | sendValue | Internal 🔒 | 🛑 | |
| L | functionCall | Internal 🔒 | 🛑 | |
| L | functionCall | Internal 🔒 | 🛑 | |
```



```
| L | functionCallWithValue | Internal | | | |
| L | functionCallWithValue | Internal 🔒 | 🛑 | |
| L | functionCallWithValue | Private 🔐 | 🛑 | |
111111
**IERC20Metadata** | Interface | IERC20 | | |
| L | name | External | | NO | |
L symbol External | NO | |
| L | decimals | External | | NO | |
111111
**ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
| L | <Constructor> | Public | | | | NO | |
| | name | Public | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | Public | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | NO | |
| L | transferFrom | Public | | | | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | _transfer | Internal 🔒 | 🛑 | |
| L | mint | Internal 🔒 | 🛑 | |
| L | _burn | Internal 🔒 | 🛑 | |
| L | approve | Internal 🔒 | 🛑 | |
| L | beforeTokenTransfer | Internal 🙃 | 🛑 | |
1111111
| **DividendPayingTokenInterface** | Interface | | | | | |
| L | dividendOf | External | | NO | |
| L | withdrawDividend | External | | | NO | |
\Pi\Pi\Pi\Pi
| **DividendPayingTokenOptionalInterface** | Interface | | | | |
| L | withdrawableDividendOf | External | NO | |
| L | withdrawnDividendOf | External | | NO | |
| L | accumulativeDividendOf | External | | NO | |
111111
| **DividendPayingToken** | Implementation | ERC20, Ownable, DividendPayingTokenInterface,
DividendPayingTokenOptionalInterface | | |
| L | <Constructor> | Public | | | | ERC20 | |
| L | distributeDividends | Public | | | | onlyOwner |
| L | withdrawDividend | Public | | | | NO | |
```



```
| L | withdrawDividendOfUser | Internal 🔒 | 🛑 | |
| L | dividendOf | Public | | NO | |
L withdrawableDividendOf | Public | NO | |
L | withdrawnDividendOf | Public | | NO | |
L accumulative Dividend Of | Public | NO | |
| L | transfer | Internal 🔒 | 🛑 | |
| L | _mint | Internal 🔒 | 🛑 | |
| L | burn | Internal 🔒 | 🛑 | |
| L | _setBalance | Internal 🔒 | 🛑 | |
**DividendTracker** | Implementation | Ownable, DividendPayingToken | | |
📙 | <Constructor> | Public 📗 | 🛑 | DividendPayingToken |
| L | <Receive Ether> | External | | 💵 | NO 📗 | |
| L | _transfer | Internal 🔒 | | |
| L | withdrawDividend | Public | | NO | |
| L | updateMinimumTokenBalanceForDividends | External | | | • | onlyOwner |
| L | excludeFromDividends | External | | | | onlyOwner |
| L | updateClaimWait | External | | | | onlyOwner |
| L | setLastProcessedIndex | External | | | | onlyOwner |
| L | getLastProcessedIndex | External | NO | |
| L | getNumberOfTokenHolders | External | | NO | |
| L | getAccount | Public | | NO | |
| L | getAccountAtIndex | Public | | NO | |
| L | canAutoClaim | Private 🔐 | | |
| L | setBalance | External | | | | onlyOwner |
| L | process | Public | | | NO | |
| L | processAccount | Public | | | | onlyOwner |
IIIIIII
| **SBFCEO** | Implementation | ERC20, Ownable | | | | | |
| L | <Constructor> | Public | | | | ERC20 |
| L | <Receive Ether> | External | I NO | |
| L | claimStuckTokens | External | | | | onlyOwner |
| L | excludeFromFees | External | | | | onlyOwner |
| L | isExcludedFromFees | Public | | NO | |
| L | changeMarketingWallet | External | | | | | onlyOwner |
| L | transfer | Internal 🔒 | 🛑 | |
| L | swapAndSendDividends | Private 🔐 | 🛑 | |
| L | setSwapTokensAtAmount | External | | | | | onlyOwner |
| L | updateMinimumBalanceForDividends | External | | | • | onlyOwner |
```



```
L updateClaimWait | External | OnlyOwner |
L getClaimWait | External | NO | |
L getTotalDividendsDistributed | External | NO | |
L withdrawableDividendOf | Public | NO | |
L | dividendTokenBalanceOf | Public | | NO | |
L | totalRewardsEarned | Public | | NO | |
L isExcludedFromDividends | Public | NO | |
L getAccountDividendsInfo | External | NO | |
L getAccountDividendsInfoAtIndex | External | NO | |
| L | claimAddress | External | | | | onlyOwner |
| L | getLastProcessedIndex | External | | NO | |
| L | getNumberOfDividendTokenHolders | External | | NO | |
```

Legend



STATIC ANALYSIS

```
Function IUnismpUPPair.POMPAIT TYPEMSHOW() (contracts/Token.sol#303) is not in mixedcase
Function IUnismpUPPair.POMPAIT TYPEMSHOW() (contracts/Token.sol#306) is not in mixedcase
Function IUnismpUPPair.POMPAIT TYPEMSHOW() (contracts/Token.sol#330) is not in mixedcase
Function IUnismpUPPair.POMPAIT (IUNISMPUPPAIR) (contracts/Token.sol#330) is not in mixedcase
Function IUnismpUPPair.POMPAIT (IUNISMPUPPAIR) (contracts/Token.sol#330) is not in mixedcase
Parameter DividendPayingToken.withdramableOut/idendOffaddress), owner (contracts/Token.sol#303) is not in mixedcase
Parameter DividendPayingToken.withdramableOut/idendOffaddress), owner (contracts/Token.sol#309) is not in mixedcase
Parameter DividendPayingToken.accumulativeDividendOffaddress), owner (contracts/Token.sol#309) is not in mixedcase
Constant DividendPayingToken.accumulativeDividendOffaddress), owner (contracts/Token.sol#309) is not in mixedcase
Parameter DividendPayingToken.accumulativeDividendOffaddress), owner (contracts/Token.sol#309) is not in mixedcase
Parameter DividendPayingToken.accumulativeDividendOffaddress), owner(contracts/Token.sol#309) is not in mixedcase
Parameter Ministrian.Changerfacket.ingellele(contracts/Token.sol#304) is not in mixedcase
Parameter Ministrian.Changerfacket.ingellele(contracts/Token.sol#304) is not in mixedcase
Parameter Ministrian.Changerfacket.ingellele(contracts/Token.sol#304) is not in mixedcase
Reference: https://github.com/crytic/slither/wiki/Detector-DocumentationConformance-to-solidity-naming-conventions
Reference: https://github.com/crytic/slither/wiki/Detector-DocumentationConformance-to-solidity-naming-conventions
Reference: https://github.com/crytic/slither/wiki/Detector-DocumentationPariable-names-to-similar
r to IUnismpUPParia (contracts/Token.sol#333) is not in mixedcase
Reference: https://github.com/crytic/slither/wiki/Detector-DocumentationPariable-names-to-similar
r to IUnismpUPParia (contracts/Token.sol#333) is not in mixedcase
Reference: https://github.com/crytic/slither/wiki/Detector-DocumentationPar
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0xa6c447e00b09d9dd42c5ea8ea8ae0e eecb78f84c546b533638cea5413d437eb3

2- Buying when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x3b3b7a95dab7d074abc09d545e7fbfcefc838d7b0448973e91c9a5eef1522f29

3- Selling when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x3b3b7a95dab7d074abc09d545e7fbfcefc838d7b0448973e91c9a5eef1522f29

4- Transferring when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0xd2edaf2699a4c8d15eb8c78f3c4c0e3 2404bd6fcdd24ec90bdab8b15982852f0

5- Buying when not excluded from fees (0-10% tax) (passed):

https://testnet.bscscan.com/tx/0x35259771aedcfefa388ff552b2c4d28ba0503aa8aabb11edd1d644d55c8bc034

6-Selling when not excluded from fees (0-10% tax) (passed):

https://testnet.bscscan.com/tx/0xf9f1c55aa3426fc9425410d60c723bb b82200dc42b98b3a10422fb5dd58d6701



FUNCTIONAL TESTING

7- Transferring when not excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x31f3dece22d567b0ddb4474280a874 2773108a614f4de83602b7644c441e3015

8- Internal swap (passed):

Marketing wallet received BNB

https://testnet.bscscan.com/tx/0xf9f1c55aa3426fc9425410d60c723bb b82200dc42b98b3a10422fb5dd58d6701



DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.



ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



https://auditace.tech/



https://t.me/Audit_Ace



https://twitter.com/auditace_



https://github.com/Audit-Ace