

Smart Contract Audit

FOR

Minnielnu

DATED: 3 June 23'



AUDIT SUMMARY

Project name - Minnielnu

Date: 3 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/token/0x02827360Dc70E7044356fb5DeEA85efC55B02019



Token Information

Token Name: Minnielnu

Token Symbol: \$MINNIE

Decimals: 18

Token Supply: 1,000,000,000

Token Address: ---

Checksum:

ae134d3ed4aa4e1dea8d0c9251e45f3810009957

Owner:

--- (at time of writing the audit)

Deployer:

- - -



TOKEN OVERVIEW

Fees:

Buy Fees: 8%

Sell Fees: 8%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership: Owned

Minting: None

Max Tx Amount/ Max Wallet Amount: Yes

Blacklist: No

Other Privileges: - Including or excluding from fees

- changing swap threshold



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.

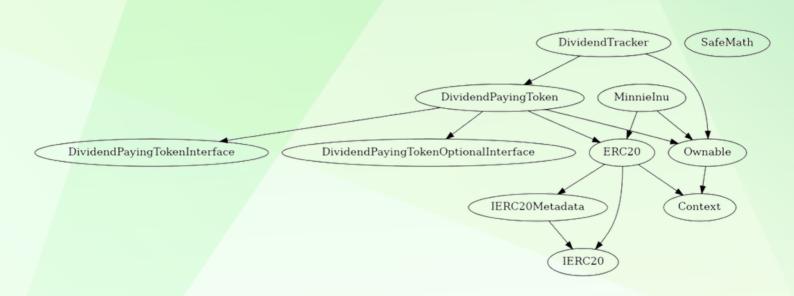
A vulnerability that has an informational character but is not affecting any of the code.

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 not able to change current tax (8% for buy and sell)
- 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\Pi
| **Context** | Implementation | |||
| L | msgSender | Internal 🔒 | | |
| L | msgData | Internal 🔒 | | |
\Pi\Pi\Pi\Pi
**Ownable** | Implementation | Context | | |
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 🔒 | | |
IIIIIII
| **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 | |
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```



```
**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 | |
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| **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 1 | |
| 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 | |
| l | 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 | setSwapEnabled | External | | | | onlyOwner |
| 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 IUnisamplyPair.DMAIN_SEPRATOR() (contracts/Token.sola930) is not in mixedCase
function IUnisamplyPair.HMINIMALIDUIDITY)) (contracts/Token.sola930) is not in mixedCase
function IUnisamplyPair.HMINIMALIDUIDITY) (contracts/Token.sola930) is not in IUNISAMPLA (contracts/Token.sola930) is not iunisampla (contracts/Token.sola930) is not iunisampla (contracts/Token.sola930) is not iunisampla (contra
```

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/0x447461f4861081fe2497e753efccc85 ea762f990b897401bcfcc29980798a401

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

https://testnet.bscscan.com/tx/0xd62bdc49e9d77f58be164edee10938 bf301fa1f876f9f3f9103bc0b775c933fa

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

https://testnet.bscscan.com/tx/0xedb07a3cd30d31f313a53cdea3b0e5 5ead900632abb1a113b978083d93642bf1

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

https://testnet.bscscan.com/tx/0x2322847c06c793f12808ab2a0407faa0be69d9f2a3f361cd5c257f91e743f377

5- Buying when not excluded from fees (8% tax) (passed):

https://testnet.bscscan.com/tx/0xfc525607773eb64eda11b743bcc46bf 9b057132f4b5eac3dc29bb0e003bb9c6a

6- Selling when not excluded from fees (8% tax) (passed):

https://testnet.bscscan.com/tx/0x3b3104f03f123f588345e47a2aa6cc6 3937a9d1134b056934a0fb58586e06d2b



FUNCTIONAL TESTING

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

https://testnet.bscscan.com/tx/0x6409d61864bccfab539bc60c1c0716b c3e4a8a3c5c88c394ca081dfba3cfde35

8- Internal swap (passed):

Marketing wallet received BNB

https://testnet.bscscan.com/address/0x77e189a567790defad1a416f24 dcd53ad3d66573#internaltx



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