



Smart Contract Audit

FOR

Rocket Rush

DATED : 02 Mar 23'



AUDIT SUMMARY

Project name – Rocket Rush

Date: 02 March, 2023

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

Audit Status: Passed (Contract is developed by pinksale's Safu Dev)

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 done on BSC Test network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/token/0xeEcb2762098A7Ef190b4BC821730230753ef6e10#code>



Token Information

Token Name : Rocket Rush

Token Symbol: RR

Decimals: 18

Token Supply: 100,000,000

Token Address:

0x8d9DdA5fF907628382F8b6b45aFf59805f3b472b

Checksum:

cb8957a126d502f6f5c9e873a5ecf32e8941eb1c

Owner:

0x293acd83d6f1b2b1b95d421996453571ce676e55



TOKEN OVERVIEW

Fees:

Buy Fees: 1%

Sell Fees: 3%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: including and excluding from 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-by-line 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 is exercised 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

- | | |
|--|---|
|  Return values of low-level calls |  Gasless Send |
|  Private modifier |  Using block.timestamp |
|  Multiple Sends |  Re-entrancy |
|  Using Suicide |  Tautology or contradiction |
|  Gas Limitand Loops |  Timestamp Dependence |
|  Address hardcoded |  Revert/require functions |
|  Exception Disorder |  Use of tx.origin |
|  Using inline assembly |  Integer overflow/underflow |
|  Divide before multiply |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3 |
|  Compiler version not fixed |  Using throw |
-



CLASSIFICATION OF RISK

Severity

Description

◆ Critical

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

◆ High-Risk

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

◆ Medium-Risk

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

◆ Low-Risk

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

◆ Gas Optimization /Suggestion

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

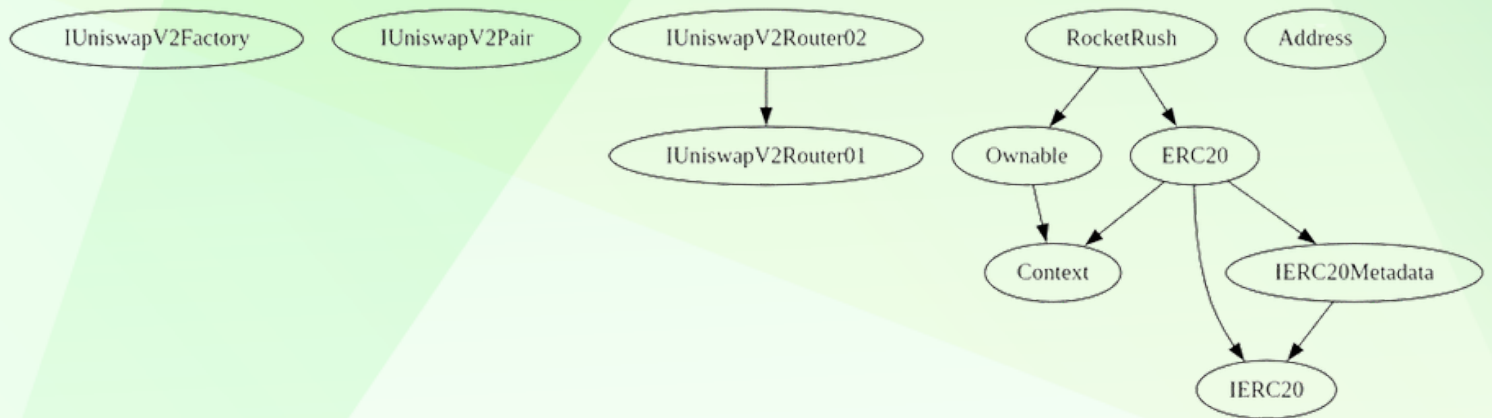
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE



POINTS TO NOTE

- **sum of buy and sell taxes can not be more than 7%**
 - **Owner is not able to set transfer taxes (0% static)**
 - **Owner is not able to set max wallet/transfer/buy/sell amounts**
 - **Owner is not able to blacklist an arbitrary wallet**
 - **Owner is not able to disable trades**
 - **Owner is not able to mint new tokens**
 - **Owner must enable trading in order for everyone to be able to trade (otherwise no one would be able to buy/sell/transfer)**
-



CONTRACT ASSESMENT

Contract	Type	Bases			
└──┐	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
IUniswapV2Factory	Interface				
└ feeTo	External	!	NO	!	
└ feeToSetter	External	!	NO	!	
└ getPair	External	!	NO	!	
└ allPairs	External	!	NO	!	
└ allPairsLength	External	!	NO	!	
└ createPair	External	!	⊗	NO	!
└ setFeeTo	External	!	⊗	NO	!
└ setFeeToSetter	External	!	⊗	NO	!
IUniswapV2Pair	Interface				
└ name	External	!	NO	!	
└ symbol	External	!	NO	!	
└ decimals	External	!	NO	!	
└ totalSupply	External	!	NO	!	
└ balanceOf	External	!	NO	!	
└ allowance	External	!	NO	!	
└ approve	External	!	⊗	NO	!
└ transfer	External	!	⊗	NO	!
└ transferFrom	External	!	⊗	NO	!
└ DOMAIN_SEPARATOR	External	!	NO	!	
└ PERMIT_TYPEHASH	External	!	NO	!	
└ nonces	External	!	NO	!	
└ permit	External	!	⊗	NO	!
└ MINIMUM_LIQUIDITY	External	!	NO	!	
└ factory	External	!	NO	!	
└ token0	External	!	NO	!	
└ token1	External	!	NO	!	
└ getReserves	External	!	NO	!	
└ price0CumulativeLast	External	!	NO	!	
└ price1CumulativeLast	External	!	NO	!	
└ kLast	External	!	NO	!	
└ mint	External	!	⊗	NO	!
└ burn	External	!	⊗	NO	!
└ swap	External	!	⊗	NO	!
└ skim	External	!	⊗	NO	!
└ sync	External	!	⊗	NO	!
└ initialize	External	!	⊗	NO	!

CONTRACT ASSESMENT

```
||||| |
| **IUniswapV2Router01** | Interface | |||
|  | factory | External ! | |NO!|
|  | WETH | External ! | |NO!|
|  | addLiquidity | External ! | |NO!|
|  | addLiquidityETH | External ! | |NO!|
|  | removeLiquidity | External ! | |NO!|
|  | removeLiquidityETH | External ! | |NO!|
|  | removeLiquidityWithPermit | External ! | |NO!|
|  | removeLiquidityETHWithPermit | External ! | |NO!|
|  | swapExactTokensForTokens | External ! | |NO!|
|  | swapTokensForExactTokens | External ! | |NO!|
|  | swapExactETHForTokens | External ! | |NO!|
|  | swapTokensForExactETH | External ! | |NO!|
|  | swapExactTokensForETH | External ! | |NO!|
|  | swapETHForExactTokens | External ! | |NO!|
|  | quote | External ! | |NO!|
|  | getAmountOut | External ! | |NO!|
|  | getAmountIn | External ! | |NO!|
|  | getAmountsOut | External ! | |NO!|
|  | getAmountsIn | External ! | |NO!|
|||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | |NO!|
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | |NO!|
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | |NO!|
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | |NO!|
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | |NO!|
|||||
| **IERC20** | Interface | |||
|  | totalSupply | External ! | |NO!|
|  | balanceOf | External ! | |NO!|
|  | transfer | External ! | |NO!|
|  | allowance | External ! | |NO!|
|  | approve | External ! | |NO!|
|  | transferFrom | External ! | |NO!|
|||||
| **IERC20Metadata** | Interface | IERC20 |||
|  | name | External ! | |NO!|
|  | symbol | External ! | |NO!|
|  | decimals | External ! | |NO!|
|||||
```










CONTRACT ASSESMENT

```
| **Address** | Library | ||| |
| | sendValue | Internal | 🔒 | 🔴 | |
| |||||
| **Context** | Implementation | |||
| | _msgSender | Internal | 🔒 | | |
| | _msgData | Internal | 🔒 | | |
| |||||
| **Ownable** | Implementation | Context | |||
| | <Constructor> | Public | ! | 🔴 | NO! |
| | owner | Public | ! | | NO! |
| | renounceOwnership | Public | ! | 🔴 | onlyOwner |
| | transferOwnership | Public | ! | 🔴 | onlyOwner |
| |||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | |||
| | <Constructor> | Public | ! | 🔴 | NO! |
| | name | Public | ! | | NO! |
| | symbol | Public | ! | | NO! |
| | decimals | Public | ! | | NO! |
| | totalSupply | Public | ! | | NO! |
| | balanceOf | Public | ! | | NO! |
| | transfer | Public | ! | 🔴 | NO! |
| | allowance | Public | ! | | NO! |
| | approve | Public | ! | 🔴 | NO! |
| | transferFrom | Public | ! | 🔴 | NO! |
| | increaseAllowance | Public | ! | 🔴 | NO! |
| | decreaseAllowance | Public | ! | 🔴 | NO! |
| | _transfer | Internal | 🔒 | 🔴 | |
| | _mint | Internal | 🔒 | 🔴 | |
| | _burn | Internal | 🔒 | 🔴 | |
| | _approve | Internal | 🔒 | 🔴 | |
| | _beforeTokenTransfer | Internal | 🔒 | 🔴 | |
| | _afterTokenTransfer | Internal | 🔒 | 🔴 | |
| |||||
| **RocketRush** | Implementation | ERC20, Ownable | |||
| | <Constructor> | Public | ! | 🔴 | ERC20 |
| | <Receive Ether> | External | ! | 🏠 | NO! |
| | claimStuckTokens | External | ! | 🔴 | onlyOwner |
| | excludeFromFees | External | ! | 🔴 | onlyOwner |
| | isExcludedFromFees | Public | ! | | NO! |
| | updateBuyFees | External | ! | 🔴 | onlyOwner |
| | updateSellFees | External | ! | 🔴 | onlyOwner |
| | changeMarketingWallet | External | ! | 🔴 | onlyOwner |
```





CONTRACT ASSESMENT

^L	changeEcosystemWallet	External !		onlyOwner
^L	enableTrading	External !		onlyOwner
^L	_transfer	Internal 		
^L	setSwapTokensAtAmount	External !		onlyOwner
^L	swapAndSendBNB	Private 		

| Symbol | Meaning |

|:-----:|-----|

|  | Function can modify state |

|  | Function is payable |



STATIC ANALYSIS

```
Reentrancy in RocketRush.swapAndSendBNB(uint256) (contracts/Token.sol#872-903):
  External calls:
  - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Token.sol#879-885)
  - address(marketingWallet).sendValue(marketingBalance) (contracts/Token.sol#895)
  - address(ecosystemWallet).sendValue(ecosystemBalance) (contracts/Token.sol#899)
  Event emitted after the call(s):
  - SwapAndSendBNB(tokenAmount,newBalance) (contracts/Token.sol#902)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Context.msgData() (contracts/Token.sol#390-393) is never used and should be removed
ERC20.burn(address,uint256) (contracts/Token.sol#580-595) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#3) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.18 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/Token.sol#371-382):
  - (success) = recipient.call{value: amount}() (contracts/Token.sol#377)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IUniswapV2Pair.DOMAIN_SEPARATOR() (contracts/Token.sol#65) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (contracts/Token.sol#67) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (contracts/Token.sol#90) is not in mixedCase
Function IUniswapV2Router01.WETH() (contracts/Token.sol#138) is not in mixedCase
Parameter RocketRush.updateBuyFees(uint256,uint256)._marketingFeeOnBuy (contracts/Token.sol#738) is not in mixedCase
Parameter RocketRush.updateBuyFees(uint256,uint256)._ecosystemFeeOnBuy (contracts/Token.sol#739) is not in mixedCase
Parameter RocketRush.updateSellFees(uint256,uint256)._marketingFeeOnSell (contracts/Token.sol#753) is not in mixedCase
Parameter RocketRush.updateSellFees(uint256,uint256)._ecosystemFeeOnSell (contracts/Token.sol#754) is not in mixedCase
Parameter RocketRush.changeMarketingWallet(address)._marketingWallet (contracts/Token.sol#768) is not in mixedCase
Parameter RocketRush.changeEcosystemWallet(address)._ecosystemWallet (contracts/Token.sol#784) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Token.sol#391)" inContext (contracts/Token.sol#385-394)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#143) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#144)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

RocketRush.isBlacklisted (contracts/Token.sol#629) is never used in RocketRush (contracts/Token.sol#622-904)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

RocketRush.uniswapV2Pair (contracts/Token.sol#626) should be immutable
RocketRush.uniswapV2Router (contracts/Token.sol#625) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**Result => A static analysis of contract's source code has been performed using slither,
No major issues were found in the output**



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All functionalities of the token appear to be working as intended. We have examined the smart contract's code and implemented various test cases for:

- Buying (excluded and not excluded from fees)
 - Selling (excluded and not excluded from fees)
 - Transferring (excluded and not excluded from fees)
 - Internal Swap (if contract balance is more than threshold)
- our analysis did not reveal any potential issues or security flaws.

1- Adding Liquidity (Passed):

liquidity added on Pancakeswap V2:

<https://testnet.bscscan.com/tx/0x0f9eb169f9426843288d8e4632d99c30a07479b1fe89c9e4265b113a951b13db>

no issue were found on adding liquidity.

2- Buying when excluded (0% Tax) (Passed):

<https://testnet.bscscan.com/tx/0x83cc0d75c82a814b32a6951e37293275161cb73ebbabbbfb98737794d3db95b71>

3- Selling when excluded (0% Tax) (Passed):

<https://testnet.bscscan.com/tx/0xce284267615c72237db9a29e84590d9c1b0f3f9b5e9aa7cc7f4bcb2ea2668413>



FUNCTIONAL TESTING

4-Transferring when excluded (0% tax)(Passed):

<https://testnet.bscscan.com/tx/0x789fa1f6e25221da03bd08a8ef7bd3b1a2d48237b1fea6fce045d0d10b7b1cc0>

5- Buying when not excluded (1% tax) (passed):

<https://testnet.bscscan.com/tx/0xb6e03040aaa392d0087068be7ae04ec772b5ba5f09ab7dce55e58436353f8d24>

6- Selling when not excluded (3% tax) (passed):

<https://testnet.bscscan.com/tx/0x5c6ba8c6542ac72614688b046a30432189327e6a14de6e6da5b6ba5753f1d83f>

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

<https://testnet.bscscan.com/tx/0x52b801146ac25cc409db588036d8be80fb4115ef1d898fef375f556d383b8574>

8- Internal swap (passed):

ecosystem wallet received ETH

<https://testnet.bscscan.com/address/0x1248c6aa5aec6f7baa7171b097e1baad657abaf7#internaltx>

marketing wallet received ETH

<https://testnet.bscscan.com/address/0x24b416debb518401462afd8a0a84d1e7a804406e>



MANUAL TESTING

NO ISSUES FOUND

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