



RABBIDOGE

# Smart Contract Audit Report

# TABLE OF CONTENTS

## Audited Details

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

## Summary

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

## Conclusion

## Audit Results

## Smart Contract Analysis

- Detected Vulnerabilities

## Disclaimer

## About Us

# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
RABBIDOGE	RDOGE	BSC

## Addresses

Contract address	0x553a9A17cEf05Daa3a8Cc4e6df54B4fDF8925105
Contract deployer address	0x85958B0076E3Dc4007dF569bd554C10Af6BaA600

## Project Website

<https://www.rabbidoge.com/>

## Codebase

<https://bscscan.com/address/0x553a9A17cEf05Daa3a8Cc4e6df54B4fDF8925105#code>

# SUMMARY

🐇🐇,🐇🐇 - Xīnnián kuàilè, Gōngxī fācái. Rabbidoge, the #1 meme token for the Rabbit year. Benefit for the holders no unlocked tokens, audited, low Tax 3% for buy/sell (can not be changed), beautifully hand-drawn NFT giveaways daily, and a fun and exciting marketing approach. Come and join our community. We would be glad to have you with us. Let's have fun while we embark on our journey to the moon.

## Contract Summary

### Documentation Quality

RABBIDOGE provides a document with a very good standard of solidity base code.

- The technical description is provided clearly and structured and also don't have any risk issue.

### Code Quality

The Overall quality of the basecode is GOOD

- Standart solidity basecode and rules are already followed with Coinhound Project .

### Test Coverage

Test coverage of the project is 100% ( Through Codebase )

## Audit Findings Summary

- SWC-101 | Arithmetic operation Issues discovered on lines 445, 455, 463, 482, 484, 496, 497, 511, 513, 607, 608, 675, 697, 698, 713, 721, and 722.

## CONCLUSION

We have audited the RABBIDOGE Coin which has released on January 2023 to discover issues and identify potential security vulnerabilities in RABBIDOGE Project. This process is used to find bugs, technical issues, and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with a low risk issue on the contract project.

The most common issue found in writing code on contracts that do not pose a big risk, writing on contracts is close to the standard of writing contracts in general. Some of the low issues that were found are only Arithmetic operation Issues.

# AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Check-Effect Interaction	SWC-107	Check-Effect-Interaction pattern should be followed if the code performs ANY external call.	PASS
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.	PASS
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Caller	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS

Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique Id	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS

# SMART CONTRACT ANALYSIS

Started	Mon Jan 16 2023 08:43:55 GMT+0000 (Coordinated Universal Time)
Finished	Tue Jan 17 2023 09:43:55 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	RDOGE.sol

## Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	<b>low</b>	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	<b>low</b>	acknowledged

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 445

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
444     unchecked {  
445         _approve(sender, _msgSender(), currentAllowance - amount);  
446     }  
447 }  
448
```

## SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 455

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- RDOGE.sol

### Locations

```
454 function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
455     _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
456     return true;
457 }
458
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 463

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- RDOGE.sol

### Locations

```
462     unchecked {
463         _approve(_msgSender(), spender, currentAllowance - subtractedValue);
464     }
465
466     return true;
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 482

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
481     unchecked {  
482         _balances[sender] = senderBalance - amount;  
483     }  
484     _balances[recipient] += amount;  
485
```

## SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 484

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- RDOGE.sol

### Locations

```
483     }  
484     _balances[recipient] += amount;  
485  
486     emit Transfer(sender, recipient, amount);  
487
```

## SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 496

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- RDOGE.sol

### Locations

```
495
496   _totalSupply += amount;
497   _balances[account] += amount;
498   emit Transfer(address(0), account, amount);
499
```

# SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 497

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
496     _totalSupply += amount;  
497     _balances[account] += amount;  
498     emit Transfer(address(0), account, amount);  
499  
500     _afterTokenTransfer(address(0), account, amount);
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 511

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
510     unchecked {  
511         _balances[account] = accountBalance - amount;  
512     }  
513     _totalSupply -= amount;  
514
```

## SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 513

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- RDOGE.sol

### Locations

```
512     }  
513     _totalSupply -= amount;  
514  
515     emit Transfer(account, address(0), amount);  
516
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 607

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
606
607  _mint(owner(), 1e9 * (10 ** decimals()));
608  swapTokensAtAmount = totalSupply() / 500_000;
609
610  tradingEnabled = false;
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 608

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
607  _mint(owner(), 1e9 * (10 ** decimals()));
608  swapTokensAtAmount = totalSupply() / 500_000;
609
610  tradingEnabled = false;
611  swapEnabled = false;
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 675

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
674 to == uniswapV2Pair &&  
675 marketingFeeOnBuy + marketingFeeOnSell > 0 &&  
676 swapEnabled  
677 ) {  
678 swapping = true;
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 697

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
696  if (_totalFees > 0) {  
697  uint256 fees = (amount * _totalFees) / 100;  
698  amount = amount - fees;  
699  super._transfer(from, address(this), fees);  
700  }
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 698

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
697     uint256 fees = (amount * _totalFees) / 100;
698     amount = amount - fees;
699     super._transfer(from, address(this), fees);
700 }
701
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 713

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- RDOGE.sol

## Locations

```
712 function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
713     require(newAmount > totalSupply() / 1_000_000, "SwapTokensAtAmount must be greater
than 0.0001% of total supply");
714     swapTokensAtAmount = newAmount;
715
716     emit SwapTokensAtAmountUpdated(swapTokensAtAmount);
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 721

### low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- RDOGE.sol

### Locations

```
720 address[] memory path = new address[](2);
721 path[0] = address(this);
722 path[1] = address(USDT);
723
724 uniswapV2Router.swapExactTokensForTokens(
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 722

### low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- RDOGE.sol

### Locations

```
721 path[0] = address(this);  
722 path[1] = address(USDT);  
723  
724 uniswapV2Router.swapExactTokensForTokens(  
725 tokenAmount,
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn’t say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.