

# Smart Contract Security Audit

**Project: Rise of Ape** 

Nov 03, 2022



**Contract Address** 

0x4B3B472Faa8B2EdEEE4647fB6f3477710806283E

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#### **Disclaimer**

The contents of this report reflect only the CRACKEN TECH audit team's understanding of the current progress and status of the security of the code audited, to verify the integrity of the code provided for the scope of this audit. You agree that your access and/or use, including but not limited to any associated services, products, protocols, platforms, content, and materials, will be at your sole risk. Given the size of the project, the findings detailed here are not to be considered exhaustive, and further testing and audit are recommended after the issues covered are fixed. We do not warrant, endorse, guarantee, or assume responsibility for any product or service advertised or offered by a third party through the product, any open source or third-party software, code, libraries, materials, or information linked to, called by, referenced by or accessible through the report, its content, and the related services and products, any hyperlinked websites, any websites or mobile applications appearing on any advertising, and we will not be a party to or in any way be responsible for monitoring any transaction between you and any third-party providers of products or services.

All information provided in this report does not constitute financial or investment advice, nor should it be used to signal that any persons reading this report should invest their funds without sufficient individual due diligence regardless of the findings presented in this report.

The review does not address the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. If the audited source files are smart contract files, risks or issues introduced by using data feeds from off-chain sources are not extended by this review either.



#### **Audit Review**

The source code of the Rise of Ape was audited in order to acquire a clear impression of how the project was implemented. The Cracken Tech audit team conducted in-depth research, analysis, and scrutiny, resulting in a series of observations. A detailed list of each issue found, and vulnerabilities in the source code will be included in the audit report. The problems and potential solutions are given in this report, we will identify common sources for such problems and comments for improvement.

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

- Review of the specifications, sources, and instructions provided to Cracken 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 Cracken 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 analyzing 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.



## **Project Review**

#### **Token Summary**

Parameter	Result
Token Name	Rise of Ape
Token Symbol	ROA
Token Decimal	18
Total Supply	1,000,000,000,000
Platform	BSC
Buy Tax Fee	4%
Sell Tax Fee	4%
Contract Creation Date	Nov 01, 2022
Liquidity Status	Not Available
Liquidity Lockup Time	Not Available
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	No with 200 runs
Contract Address	0x4B3B472Faa8B2EdEEE4647fB6f3477710806283E
Deployer Address	0x1e5e9Dcc9B7caB5f21dd39a9177F7B2a38485D6D
Owner Address	0x1e5e9Dcc9B7caB5f21dd39a9177F7B2a38485D6D

#### **Source Code**

CRACKEN was commissioned by Rise of Ape to perform an audit based on the following smart contract:

https://bscscan.com/address/00x4B3B472Faa8B2EdEEE4647fB6f3477710806283E



# **Smart Contract Vulnerability Checks**

Vulnerability	Auto-Scan	Manual-Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	Low / No Risk
Code With No Effects	Complete	Complete	Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	Low / No Risk
Hash Collisions with Multiple Variable Length Arguments	Complete	Complete	Low / No Risk
Unexpected Ether balance	Complete	Complete	Low / No Risk
Presence of unused variables	Complete	Complete	Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	Low / No Risk
Typographical Error	Complete	Complete	Low / No Risk
DoS With Block Gas Limit	Complete	Complete	Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	Low / No Risk
Insufficient Gas Grieving	Complete	Complete	Low / No Risk
Incorrect Inheritance Order	Complete	Complete	Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	Low / No Risk
Requirement Violation	Complete	Complete	Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	Low / No Risk
Authorization through tx. origin	Complete	Complete	Low / No Risk
Delegate call to Untrusted Callee	Complete	Complete	Low / No Risk

Vulnerability	Auto-Scan	Manual-Scan	Result
Use of Deprecated Solidity Functions	Complete	Complete	Low / No Risk
Assert Violation	Complete	Complete	Low / No Risk
Reentrancy	Complete	Complete	Low / No Risk
Unprotected SELF-DESTRUCT Instruction	Complete	Complete	Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	Low / No Risk
Outdated Compiler Version	Complete	Complete	Low / No Risk
Integer Overflow and Underflow	Complete	Complete	Low / No Risk
Function Default Visibility	Complete	Complete	Low / No Risk



## **Manual Code Review**

#### **Classification of Issues**

Severity	Description
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.
O Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
Informational	A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

Severity	Found
High-Risk	0
Medium-Risk	0
O Low-Risk	0
Informational	0
Total	0



# **Privileged Functions**

#### onlyOwner

ress spender, uint256 amount	External
ress spender, uint256 subtractedValue	Public
ress spender, uint256 addedValue	Public
е	Public
ress recipient, uint256 amount	External
ress sender,address recipient,uint256 unt	Public
ress newOwner	Public
	ress spender, uint256 subtractedValue ress spender, uint256 addedValue ress recipient, uint256 amount ress sender,address recipient,uint256 unt



## **Contract Ownership**

The contract ownership of Rise of Ape is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0x1e5e9Dcc9B7caB5f21dd39a9177F7B2a38485D6D which can be viewed: HERE

The owner wallet has the power to call the functions displayed on the privileged functions list above, if the owner wallet is compromised these privileges could be exploited.

We recommend the team renounce ownership at the right time if possible, or gradually migrate to a time lock with governing functionalities in respect of transparency and safety considerations.

## **Liquidity Overview**

#### **Liquidity Information**

Parameter	Result
Pair Address	0x48f25526872228f249cc5b44dfe945162e2c4005
ROA Reserves	0.00 ROA
BNB Reserves	0.00 BNB
Liquidity Value	\$0.00 USD
Liquidity Ownership	The token does not have liquidity at the moment of the audit



## **Tokenomics**

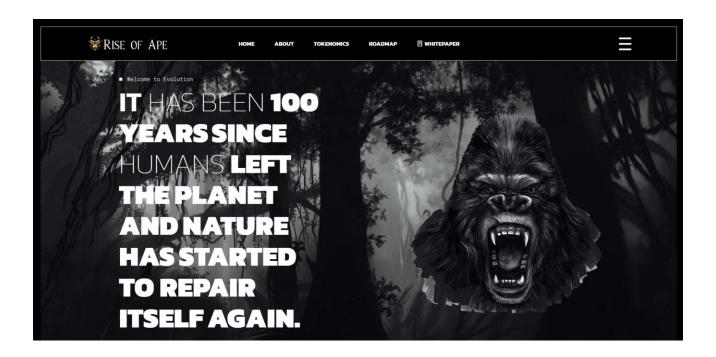
Rank	Address	Quantity (Token)	Percentage
1	0x1e5e9dcc9b7cab5f21dd39a9177f7b2a38485d6d	600,000,000,000,000	60.0000%
2	0x000000000000000000000000000000000000	400,000,000,000,000	40.0000%

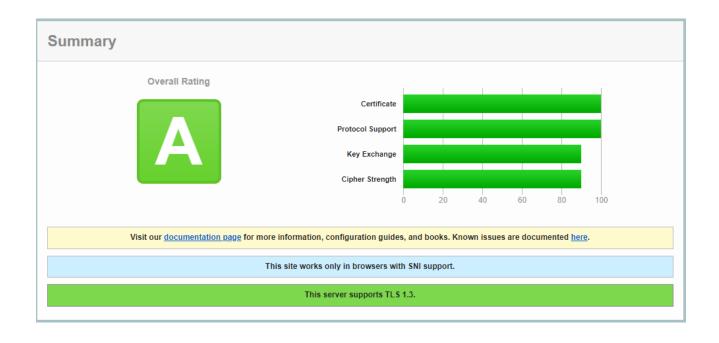
## **Social Media Check**

Social Media Type	Link	Result
Website	http://riseofape.com/	checked
Twitter	https://twitter.com/RiseOfApe/	Checked
Telegram	https://t.me/RiseOfApe_EN/	Checked



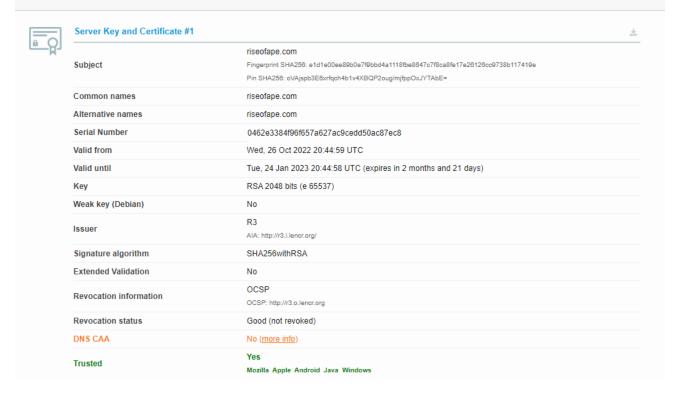
#### **Website Review**







#### Certificate #1: RSA 2048 bits (SHA256withRSA)



- Mobile Friendly
- Contains no code errors
- SSL is Secured
- No spelling errors



#### **Audit Conclusion**

- The owner cannot mint new tokens
- The owner cannot pause trading
- The owner cannot blacklist users
- The owner cannot change the max tx amount
- The owner cannot change buy/sell fees
   (The fees cannot be changed if the owner renounced the ownership)

#### **AUDIT IS PASSED**