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AUDIT COMPANY

Smart Contract Security Audit

TechRate

January, 2022

Audit Details

Audited project

CryptoWolf

Deployer address

0xe977dfa9c58ec9057426d3b09b17b2c1e7a29b99

Client contacts:

CryptoWolf team

Blockchain

Binance Smart Chain

Project website:

https://www.cryptowolf.finance/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by CryptoWolf to perform an audit of smart contracts:

https://bscscan.com/address/0x8c5921a9563e6d5dda95cb46b572bb1cc9b04a27#code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts Details

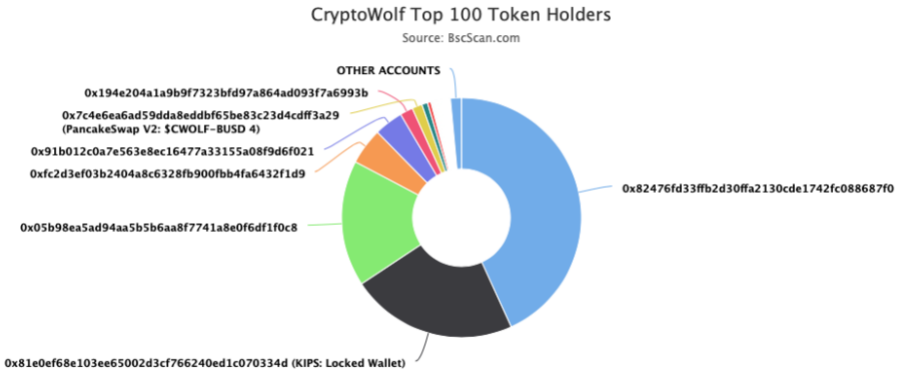
Token contract details for 12.01.2022

Contract name	CryptoWolf
Contract address	0x8c5921a9563E6d5dDa95cB46b572Bb1Cc9b04a27
Total supply	10,000,000
Token ticker	$CWOLF
Decimals	18
Token holders	15,478
Transactions count	1,367,524
Top 100 holders dominance	98.52%
Contract deployer address	0xe977dfa9c58ec9057426d3b09b17b2c1e7a29b99
Contract's current owner address	0x05b98ea5ad94aa5b5b6aa8f7741a8e0f6df1f0c8

CryptoWolf Token Distribution

The top 100 holders collectively own 98.52% (9,852,458.01 Tokens) of CryptoWolf

Token Total Supply: 10,000,000.00 Token | Total Token Holders: 15,480

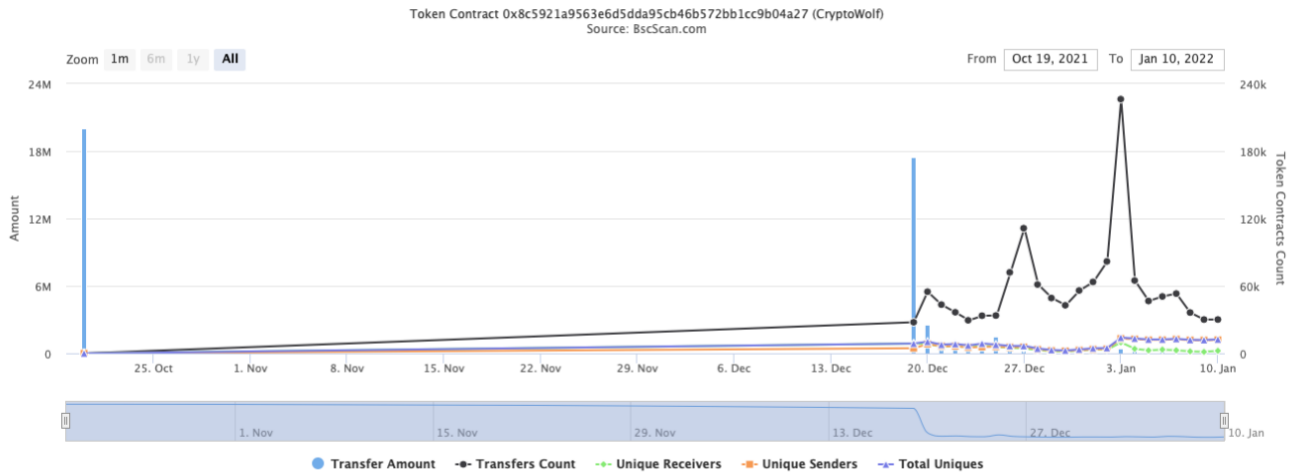


(A total of 9,852,458.01 tokens held by the top 100 accounts from the total supply of 10,000,000.00 token)

CryptoWolf Contract Interaction Details

Time Series: Token Contract Overview

Wed 20, Oct 2021 - Mon 10, Jan 2022



CryptoWolf Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x82476fd33ffb2d30ffa2130cde1742fc088687f0	4,320,406.223102528748589657	43.2041%
2	KIPS: Locked Wallet	2,250,000	22.5000%
3	0x05b98ea5ad94aa5b5b6aa8f7741a8e0f6df1f0c8	1,700,000.0003	17.0000%
4	0xfc2d3ef03b2404a8c6328fb900fbb4fa6432f1d9	493,132.000000607836574446	4.9313%
5	0x91b012c0a7e563e8ec16477a33155a08f9d6f021	389,799	3.8980%
6	0x194e204a1a9b9f7323bfd97a864ad093f7a6993b	174,134.65	1.7413%
7	PancakeSwap V2: $CWOLF-BUSD 4	137,269.390262188894604456	1.3727%
8	0x0b1c30c6d135aeb20f62c35ada5e45e20f86ebf9	76,703.08	0.7670%
9	0xa51d4c1b80709b4850c1c6303f89469236d6c8d9	47,990	0.4799%
10	0xa4276e56bbe7c73948380fe894492d9b0c6dce0e	13,989.222234842464943383	0.1399%

Contract functions details

+ [Int] IBEP20
  - [Ext] totalSupply
  - [Ext] decimals
  - [Ext] symbol
  - [Ext] name
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #

+ Ownable (Context)
  - [Pub] <Constructor> #
  - [Pub] owner
  - [Pub] renounceOwnership #
    - modifiers: onlyOwner
  - [Pub] transferOwnership #
    - modifiers: onlyOwner

+ ReentrancyGuard
  - [Pub] <Constructor> #

+ [Lib] SafeBEP20
  - [Int] safeTransfer #
  - [Int] safeTransferFrom #
  - [Int] safeApprove #
  - [Int] safeIncreaseAllowance #
  - [Int] safeDecreaseAllowance #
  - [Prv] _callOptionalReturn #

+ [Lib] SafeMath
  - [Int] tryAdd
  - [Int] trySub
  - [Int] tryMul
  - [Int] tryDiv
  - [Int] tryMod
  - [Int] add
  - [Int] sub
  - [Int] mul
  - [Int] div
  - [Int] mod
  - [Int] sub
  - [Int] div
  - [Int] mod

+ [Lib] Address
  - [Int] isContract
  - [Int] sendValue #
  - [Int] functionCall #
  - [Int] functionCall #
  - [Int] functionCallWithValue #

  - [Int] functionCallWithValue #
  - [Int] functionStaticCall
  - [Int] functionStaticCall
  - [Int] functionDelegateCall #
  - [Int] functionDelegateCall #
  - [Prv] _verifyCallResult

+ AntiWhale (Ownable)
  - [Pub] activateAntiWhale #
    - modifiers: onlyOwner
  - [Pub] deActivateAntiWhale #
    - modifiers: onlyOwner
  - [Pub] setAntiWhale #
    - modifiers: onlyOwner
  - [Pub] isWhale

+ Context
  - [Int] _msgSender
  - [Int] _msgData

+ CryptoWolf (Context, IBEP20, Ownable, AntiWhale)
  - [Pub] <Constructor> #
  - [Pub] name
  - [Pub] symbol
  - [Pub] decimals
  - [Pub] totalSupply
  - [Pub] balanceOf
  - [Pub] transfer #
  - [Pub] allowance
  - [Pub] approve #
  - [Pub] transferFrom #
  - [Pub] increaseAllowance #
  - [Pub] decreaseAllowance #
  - [Int] _transfer #
  - [Int] _burn #
  - [Int] _approve #
  - [Pub] draw #
    - modifiers: onlyOwner

($) = payable function
= non-constant function

Issues Checking Status

	Issue description	Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Medium Severity Issues

No medium severity issues found.

Owner privileges (In the period when the owner is not renounced)

- Owner can enable/disable antiWhale.
- Owner can change antiWhale params.
- Owner can toggle awaitingDraw.

Conclusion

Smart contracts do not contain high severity issues!
Liquidity locking details provided by the team:
https://dxsale.app/app/v3/dxlockview?id=0&add=0x05e6573Ef6312c0a7c639073164Cd798F570d150&type=tokenlock&chain=BSC

https://dxsale.app/app/v3/dxlockview?id=0&add=0x7f4f8345A2f8F760724e6fE04F4af906DFdAa3fa&type=lplock&chain=BSC

https://dxsale.app/app/v3/dxlockview?id=0&add=0x194E204a1a9b9F7323bFD97a864AD093f7a6993b&type=tokenlock&chain=BSC

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.