HackSafe

Smart Contract Security Audit Report

ZombiesDapp

April **2022**

Security Status

★ ★ ★ ★ ★

www.hacksafe.io

Audit Details

Audited project
ZombiesDapp

Deployer address
0x8054ba044A72C430522127135d5EfadAE09A2dA1

Client contacts
ZombiesDapp team

Blockchain
Binance Smart Chain

Website
https://zombiesdapp.com/

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

HeckSafe was commissioned by ZombiesDapp Coin to perform an audit of smart contracts:

- https://bscscan.com/address/0x50d2351d9048596384ed28ca32f26d05a895d3b7#code

Contract Details

Token contract details for 21.04.2022

Contract name	:ZombiesDApp
Contract address	: 0x50d2351D9048596384ED28CA32F26D05A895d3b7
Total supply	: 500, 000, 000
Token Ticker	: DZoM
Decimals	: 18
Token Holders	: 62
Transactions count	: 81
Contract deployer address	: 0x8054ba044A72C430522127135d5EfadAE09A2dA1

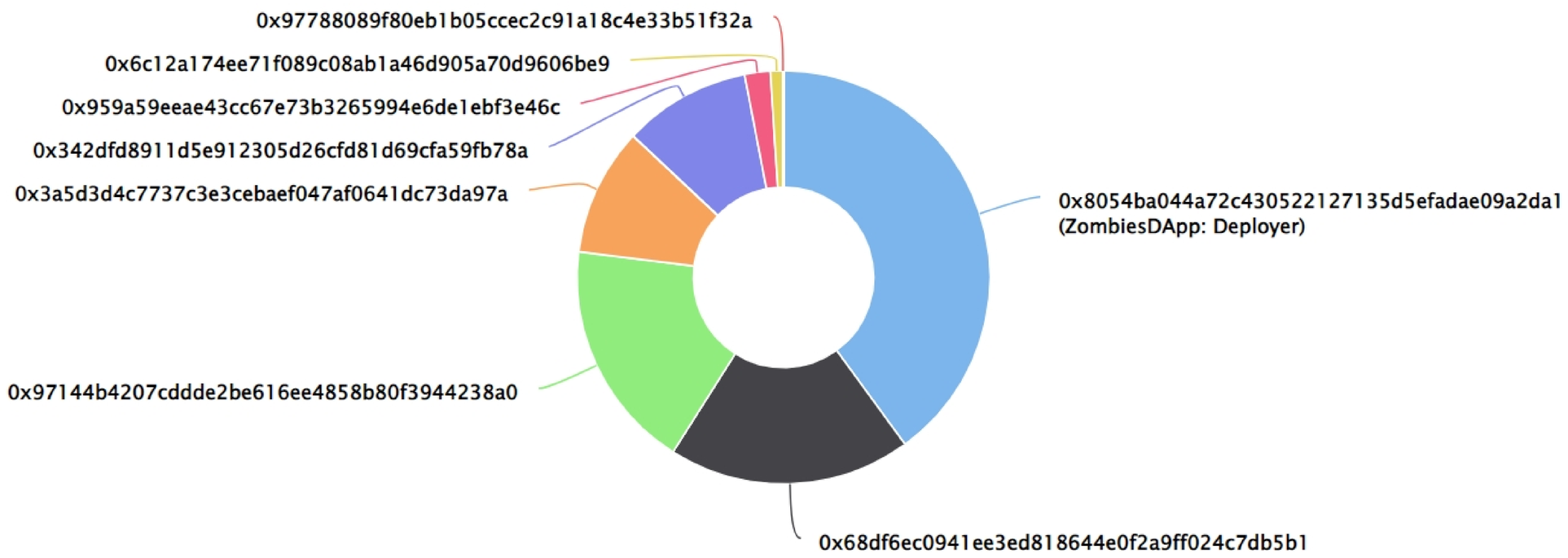
ZombiesDApp Token Distribution

The top 100 holders collectively own 100.00% (500,000,000.00 Tokens) of ZombiesDApp

Token Total Supply: 500,000,000.00 Token | Total Token Holders: 62

ZombiesDApp Top 100 Token Holders

Source: BscScan.com



ZombiesDApp Top 10 Token Holders

(A total of 499,786,480.49 tokens held by the top 10 accounts from the total supply of 500,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	ZombiesDApp: Deployer	200,000,000	40.0000%
2	0x68df6ec0941ee3ed818644e0f2a9ff024c7db5b1	95,000,000	19.0000%
3	0x97144b4207cddde2be616ee4858b80f3944238a0	90,000,000	18.0000%
4	0x3a5d3d4c7737c3e3cebaef047af0641dc73da97a	50,000,000	10.0000%
5	0x342dfd8911d5e912305d26cfd81d69cfa59fb78a	49,946,888.818689166666666668	9.9894%
6	0x959a59eeae43cc67e73b3265994e6de1ebf3e46c	9,994,666.66666666666666667	1.9989%
7	0x6c12a174ee71f089c08ab1a46d905a70d9606be9	4,800,925	0.9602%
8	0x21ce5fef43540b0aa01cc0201789bcc700a37d1c	15,000	0.0030%
9	0x97788089f80eb1b05ccec2c91a18c4e33b51f32a	15,000	0.0030%
10	0x752f3ddb1cf28143659babd2a3a09c499fc03e0c	14,000	0.0028%

Contract functions details

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

+ IBEPMint20 (IBEP20)
    - [Ext] mint #

+ Context
    - [Int] <constructor>
    - [Int] _msgSender
    - [Int] _msgData

+ [Lib] SafeMath
    - [Int] add
    - [Int] sub
    - [Int] sub
    - [Int] mul
    - [Int] div
    - [Int] div
    - [Int] mod
    - [Int] mod

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

Contract functions details

+ ZombiesDApp (Context, IBEP20, Ownable)
  - [Pub] <constructor> #
  -[Ext] getOwner
  -[Ext] decimals
  -[Ext] symbol
  -[Ext] name
  -[Ext] totalSupply
  -[Ext] balanceOf
  -[Ext] transfer #
  -[Ext] allowance
  -[Ext] approve #
  -[Ext] transferFrom #
  -[Pub] increaseAllowance #
  -[Pub] decreaseAllowance #
  -[Pub] mint #
    -modifiers: onlyOwner
  -[Int] _transfer #
  -[Int] _mint #
  -[Int] _burn #
  -[Int] _approve #
  -[Int] _burnFrom

($) = payable function
= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	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.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Low issue
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

Security Issues

- **Critical Severity Issues**
  No critical severity issue found.
- **High Severity Issues**
  No high severity issue found.
- **Medium Severity Issues**
  No medium severity issues found.
- **Low Severity Issues**
  One low severity issue found.

1. Scoping and Declarations.

Unused function.

- **Description**
  The mul, mod, mod, div, div, _msgData, _burnFrom, _burn functions do nothing.
- **Location**
  mul, mod, mod, div, div, _msgData, _burnFrom, _burn function.
- **Recommendation**
  We advise to remove unused code which can help you to develop clean coding style and save some computational gas too.

Owner Privileges

Owner Privileges (in the period when the owner is not renounced) :

- ZombiesDApp Contract:
    - Owner can transfer ownership.
    - Owner can renounce ownership.
    - Owner can mint tokens.

Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe 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.