

Smart Contract Security Audit Report

Musk Melon staking

April 2022

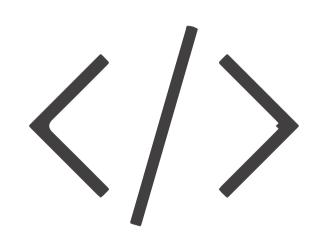


Audit Details



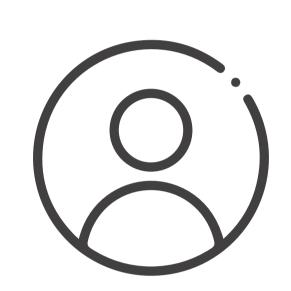
Audited project

Musk Melon



Deployer address

0xAEA1258D9D8801B0425132D37ef6F15932573DAD



Client contacts

Musk Melon Team



Blockchain

Binance smart chain



Website

https://muskmelon.org/

Page No. 02 www.hacksafe.io

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.

Page No. 03 www.hacksafe.io

Background

HeckSafe was commissioned by Musk Melon to perform an audit of smart contracts:

• https://bscscan.com/address/0xeeB24ed5dD87d09fDeFB1c8ccb3cA4DD3430fA7b

Page No. 04 www.hacksafe.io

Contract Details

Token contract details for 25.04.2022

Contract name : staking

Contract address : 0xeeB24ed5dD87d09fDeFB1c8ccb3cA4DD3430fA7b

Contract deployer

address

: 0xAEA1258D9D8801B0425132D37ef6F15932573DAD

Page No. 05 www.hacksafe.io

Contract functions details

```
+ [Int] IERC20
    -[Ext]totalSupply
    -[Ext]balanceOf
    -[Ext]allowance
    -[Ext]transfer#
    -[Ext]approve#
    -[Ext]transferFrom#
+[Lib] Address
    -[Int] isContract
+Context
    -[int]_msgsender
+Ownable (Context)
    -< constructor> #
    -[Pub] owner
    -[Pub] renounceOwnership#
      -Modifier: onlyOwner
    -[Pub] transferOwnership
      -Modifier: onlyOwner
    -[Pvt] _setOwner
+ [Lib] SafeMath
    -[Int] add
    - [Int] sub
    -[Int] mul
    -[Int] div
+ Stacking (Ownable)
    -<constructor> #
    -[Pub] changerefferCommition #
     -modifiers: onlyOwner
    -[Pub] stacked #
    -[Pub] claim #
      -Modifier: claimtime
    -[Pub] Unstacked #
    -[Pub] checked #
    -[Pub] Withdraw
      -Modifier: onlyOwner
```

Page No. 06 www.hacksafe.io

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.	Passed
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

Page No. 07 www.hacksafe.io

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.
Medium	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution

Page No. 08 www.hacksafe.io

Security Issues

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

Page No. 9 www.hacksafe.io

Owner Privileges

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

- Musk Melon staking Contract:
 - Owner can change reference commission rate.
 - Owner can withdraw.
 - Owner can renounce ownership.
 - Owner can transfer ownership.

Page No. 10 www.hacksafe.io

Conclusion

Smart contract contains no 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.

Page No. 11 www.hacksafe.io