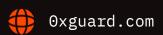


Smart contracts security assessment

Final report
Tariff: Standard

Venomous.finance

June 2022





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□ Introduction

This report has been prepared for the Venomous.finance team upon their request.

The audited project is a fork of the Tomb Finance Project.

Further details about Venomous.finance are available at the official website: https://venomous.finance.

Update: The Venomous.finance team, after receiving the initial audit, decided to correct the comments and redeploy the contracts.

| Name | Venomous.finance |
|------------|-------------------------|
| Audit date | 2022-06-06 - 2022-06-07 |
| Language | Solidity |
| Platform | Avalanche Network |

Contracts checked

| Name | Address |
|------------------------|--|
| VenomHostTomb | 0x54E90234257F58075C3dA580AB4f02E30A5a2D62 |
| VenomBond | 0x45Ba355F4fDE24B143d32AED1B780D4d30629399 |
| SymbiotShare | 0x98716351b2660F8Ebbe4bAfB34A07f9c4aA35E14 |
| VShareRewardPool | 0x521cEa929C0c6935778d59FE22FEdBd8f2779F03 |
| VTombGenesisRewardPool | 0xa383a16f62b6c01703Cd5b06D8348f39081A8045 |
| OracleV2 | 0xC14c3224BA7316D540fcC7E99E2138a096AB4cCE |
| Boardroom | 0xdd075243e6E88e0Ab2ef147F3C0cd25B1798A177 |
| Treasury | 0x386510ec3912E68A0b63cda06B28aaA35a4a5eAf |
| multisigContractCaller | 0x169b08d74afc5ea7639d0b40260e5336bee16ae8 |
| Multiple contracts | |

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Procedure

We perform our audit according to the following procedure:

Automated analysis

- Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- Manual verification (reject or confirm) all the issues found by the tools

Manual audit

Comparing the project to the Tomb Finance implementation

Classification of issue severity

High severity High severity issues can cause a significant or full loss of funds, change

of contract ownership, major interference with contract logic. Such issues

require immediate attention.

Medium severity Medium severity issues do not pose an immediate risk, but can be

detrimental to the client's reputation if exploited. Medium severity issues may lead to a contract failure and can be fixed by modifying the contract

state or redeployment. Such issues require attention.

Low severity Low severity issues do not cause significant destruction to the contract's

functionality. Such issues are recommended to be taken into

consideration.

Issues

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High severity issues

1. Tax bypass (FIXED) (VenomHostTomb)

Tax avoidance in the Tomb project is the main problem the team faced. The problem is that there is an invariant in the transferFrom() function that deducts tax for the transfer of tokens, but there is also an invariant without deduction of tax that calls the transfer() function. Using this problem, you can bypass all tax deductions if you use only the transfer() function and it is possible to violate the tokenomics of the project.

Recommendation: It is recommended to overload the transfer() function to work with a tax or completely remove the tax functionality in contracts.

2. Locked funds (FIXED) (VTombGenesisRewardPool)

If the called deposit() function for pool. token is equal to the cake address, then in 286L the percentage calculated for the fee can never be withdrawn due to the lack of special functions for this. Also, in the setCakeTokenFee() function, it is indicated that the maximum fee is 20%, which is too high a percentage for it to be locked on the contract forever. It is also not clear why a fee for depositing a cake token is taken if the cake token is not a commission token (JoeToken - 0x6e84a6216eA6dACC71eE8E6b0a5B7322EEbC0fDd).

Recommendation: It is recommended to disable taking a fee when depositing a cake token.

Medium severity issues

1. Contract ownership (FIXED) (Multiple contracts)

- 1) An Operator can change taxTiersTwaps and taxTiersRate up to 100% in VenomHostTomb token in setTaxTiersTwap() and setTaxTiersRate() functions.
- 2) The governanceRecoverUnsupported() function (found in the VenomHostTomb, SymbiotShare and VShareRewardPool contracts) can remove all tokens from the contract balance if

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the operator role is compromised.

Recommendation: There is a large number of functions with the onlyOperator() modifier, there is a possibility that the operator can be compromised. It is recommended to create multiple roles for different kinds of functions to reduce the operator's problem. It is also recommended to add a time delay to the especially important set functions using the TimelockController. We also recommend that you look through the entire codebase to find functions that are dangerous for you as the owner of the project (mainly set functions), if there are any, then add a call to them via a multisig wallet. This will help avoid the issue of owner compromise.

Low severity issues

1. Contract version not from a verified source (multisigContractCaller)

An implemented contract for multisig signatures can be found at OpenZeppelin. This contract is well tested and has various variations of work (2 out of 3, 3 out of 5, etc.). It is recommended to use this particular contract in order to avoid possible compromises of accounts.

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Conclusion

2 high, 1 medium, 1 low severity issues were found.

2 high and 1 medium severity issues have been resolved in the update.

The Venomous.finance Project was compared with the Tomb Project. Venomous.finance has changed the implementation of Token and Pool contracts. All contracts have been updated to the latest version of Solidity. Also, in most contracts, the implementation of the <code>isHuman()</code> modifier has been added, which checks the sender of the transaction and does not prohibit other contracts from calling functions, this action will protect against flashloan attacks.

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