Executive report of the audit of the main Smart Contract (rev. 2)
Bamboo
10-26-2020

1. Introduction

This is one of the partial audits, in this case, carried out on the main Smart Contract of BAMBOO DEFI where several improvements could be implemented.

The BAMBOO DEFI ecosystem is formed by a large number of Smart Contracts that interact with each other. All of them are going to be audited by Red4Sec and once the possible errors have been debugged and the recommended improvements have been applied, the quality seal of approval will be granted.

2. Work done until this second revision

Following the delivery of the first Red4Sec audit report, the BAMBOO DEFI development team has applied the following procedures.

1. Solving the problem of delegated burn tokens
2. We implemented the improvement in the process of changing the ownership of the main SC to leave it in the hands of the SmartContract
3. Incorporation of the MIT license in all contracts
4. Refactoring of the code to improve its readability
5. Correction of the blocktype mentioned in the audit (rev.1)
6. Refactoring functions to optimize gas consumption

3. Results table

The following data reflects the second audit, published on October 26, 2020, to which the main Smart Contract code of BAMBOO DEFI has been exposed.

Vulnerability	State	Notes
Unlimited designation votes	Fixed	
Unbounded Loop in getPriorVotes method	Assumed	
Unsecure Ownership Transfer	Fixed	
Block number stored in a wrong type	Fixed	
GAS Optimization	Assumed	
Improvable Code Quality	Partially fixed	
Absence of Unit Test	Assumed	
Outdated Third-Party Libraries	Fixed	
Provide License for Third-Party Code	Assumed	

4. Development team notes

Nexxyo Labs has considered for the good of the project that it is positive to maintain the idea of the initial development about two points mentioned in the Red4Sec audit.

Unbounded Loop in getPriorVotes method
This is the best way to implement this function. A technical analysis has been carried out in different Blockchain technology protocols and all of them conclude in using the same function. Considering its use as a standard.

Unnecessary update of OpenZepellin contracts
This decision is taken as relevant since it prefers to use Solidity version 0.6.12. Version, in turn, implemented in major projects such as Uniswap and SushiSwap.

5. Progression after this initial audit

Continuing with the development of the project, the team of BAMBOO DEFI, has published the contracts of the DEX, STAKING and peripherals in the network Testnet of Ethereum. They are waiting for Red4Sec to audit them. Advancing, in turn, with different other parts and relevant aspects of the project:

✔ Unit test staking

  o Pass the audit of this contract

✔ Raindrop

  o Unit test raindrop

  o Pass the audit of this Smart Contract

✔ Connect the frontend of the web platform to the Testnet network

  o Intensive tests on the Testnet

✔ Publication of all contracts on the Mainnet network

✔ Publishing the web frontend on the Mainnet network

Once the previous work phases have been completed, Red4Sec will carry out a global revision of the project and after its authorization the certificate will be delivered to BAMBOO DEFI.

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