

Smart Contract Security Audit Report

Fast to Earn

July 2022



Audit Details

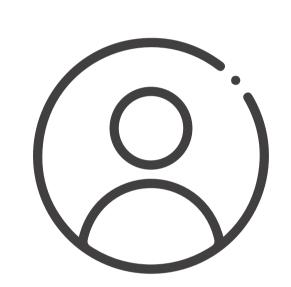


Audited project

Fast to Earn



Deployer address
0x1C45D7Beb50AC77aB30D319e84e8284c5377FB96



Client contacts

Fast to Earn team



Blockchain

Binance Smart Chain



Website

https://fast2earn.app/

www.hacksafe.io Page No. 02

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

Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

Page No. 04 www.hacksafe.io

Background

HackSafe was commissioned by Fast to Earn to perform an audit of smart contracts:

• https://bscscan.com/address/0x529f5cfEFBA34093fB6c0e294002b9CEA0A0CAAE#code

The purpose of the audit was to achieve the

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

The information in this report should be 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.

Page No. 05 www.hacksafe.io

Contract Details

Token contract details for 15.07.2022

Token Type : BEP20

Contract name : FastToEarn

Contract address : 0x529f5cfEFBA34093fB6c0e294002b9CEA0A0CAAE

Compiler version : v0.8.7+commit.e28d00a7

Total supply : 21,000,000

Token Ticker : F2E

Decimals : 18

Token Holders : 1,104

Top 100 token holder's: 100.00 %

dominance

address

Transactions count : 3,007

Contract deployer : 0x1C45D7Beb50AC77aB30D319e84e8284c5377FB96

Marketing address : 0x1c45d7beb50ac77ab30d319e84e8284c5377fb96

Page No. 06 www.hacksafe.io

Social profiles

Coinmarketcap profile : https://coinmarketcap.com/currencies/fast-to-earn/

Page No. 07 www.hacksafe.io

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Secure". This token contract does contain owner control, which do not make it fully decentralized as owner does have control over smart contract.

Insecure Poor secured Secure Well-secured



You are here

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low and some very low-level issues. These issues are not critical ones.

Page No. 08 www.hacksafe.io

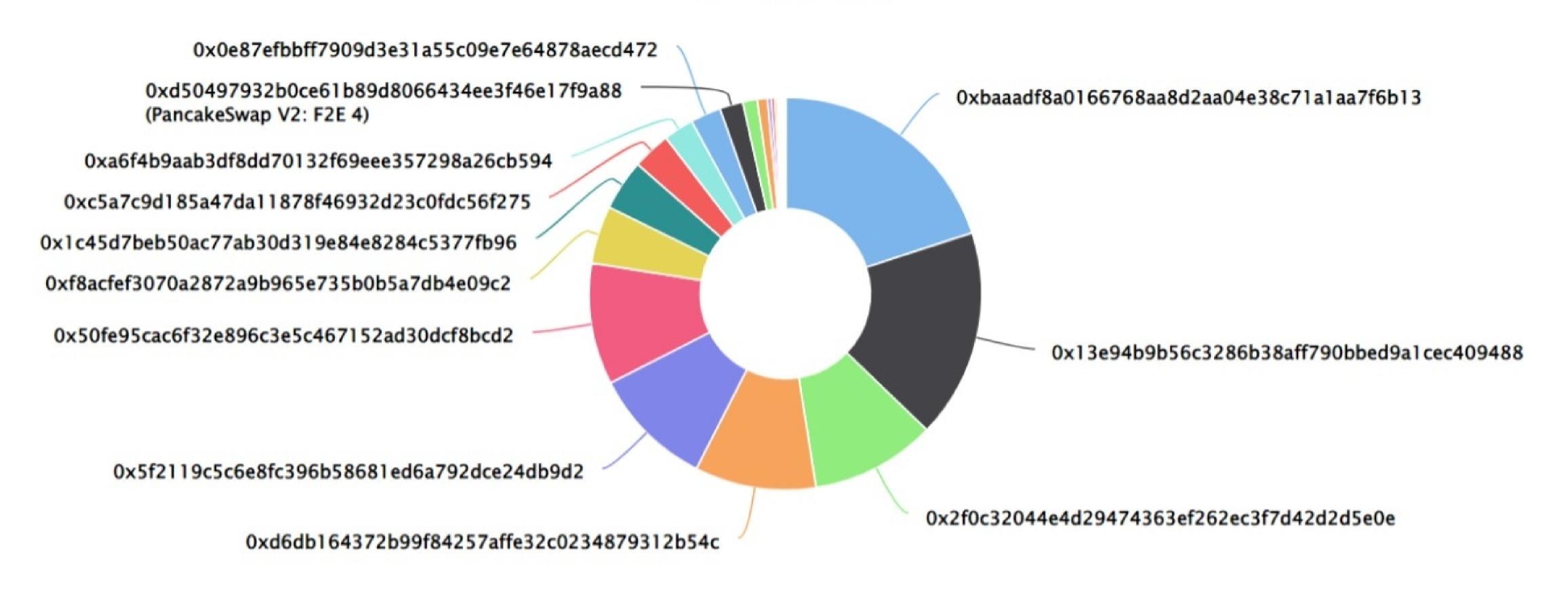
FastToEarn Token Distribution

The top 100 holders collectively own 100.00% (20,999,000.59 Tokens) of Fast To Earn

Token Total Supply: 21,000,000.00 Token | Total Token Holders: 1,104

Fast To Earn Top 100 Token Holders

Source: BscScan.com



FastToEarn Top 20 Token Holders

(A total of 20,999,000.59 tokens held by the top 100 accounts from the total supply of 21,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	①xbaaadf8a0166768aa8d2aa04e38c71a1aa7f6b13	4,200,000	20.0000%
2	①x13e94b9b56c3286b38aff790bbed9a1cec409488	3,612,000	17.2000%
3	①x2f0c32044e4d29474363ef262ec3f7d42d2d5e0e	2,163,000	10.3000%
4	①xd6db164372b99f84257affe32c0234879312b54c	2,100,000	10.0000%
5	①x5f2119c5c6e8fc396b58681ed6a792dce24db9d2	2,100,000	10.0000%
6	①x50fe95cac6f32e896c3e5c467152ad30dcf8bcd2	2,100,000	10.0000%
7	①xf8acfef3070a2872a9b965e735b0b5a7db4e09c2	999,999.994197855526416327	4.7619%
8	0x1c45d7beb50ac77ab30d319e84e8284c5377fb96	877,929.418655449999888458	4.1806%
9	0xc5a7c9d185a47da11878f46932d23c0fdc56f275	661,217.082136046124800058	3.1487%
10	①xa6f4b9aab3df8dd70132f69eee357298a26cb594	525,000	2.5000%
11	①x0e87efbbff7909d3e31a55c09e7e64878aecd472	525,000	2.5000%
12	PancakeSwap V2: F2E 4	403,071.755404039206241492	1.9194%
13	0x8f47b034dc38afbda149941529504b387db1b9c9	250,000	1.1905%
14	0x087d882a967ce6c0e90eeca95a727e7626f4ed3f	176,237.641524682154769206	0.8392%
15	0x898f24f2c2259a8fe3daad7d236dd8e07426381b	60,173.374389042274046689	0.2865%
16	0xb71775e56f6ed9d723e2010dc8b1d2c77d2ef8a5	60,000	0.2857%
17	0x5223f8d923dc69215852b0761e24030f808e4c8e	49,499.891460295264949017	0.2357%
18	①x1ad8e6808e3f64bca5f8eae97d510e26ed04546a	23,898.9884	0.1138%
19	0xdf3ef26da2a978b50d9d0d8d60d0af1c72fe85fa	16,864.8642	0.0803%
20	0x8789c13368aca7e42a0ea9b6175e33da4df01bb1	11,784.036036319621492711	0.0561%

FastToEarn Token Distribution

FastToEarn Contract Overview



Page No. 09 www.hacksafe.io

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
+ Context
    -<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)
    -<constructor>
    -[Pub] owner
    -[Pub] marketing
    -[Pub] renounceOwnership #
     -modifiers: onlyOwner
    -[Pub] transferOwnership
      -modifiers: onlyOwner
    -[Int] _transferOwnership #
+ FastToEarn (Context, IBEP20, Ownable)
    -[Pub]<constructor>
    -[Pub] getOwner
```

Contract functions details

```
-[Pub] decimals
    -[Pub] symbol
    -[Pub] name
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] allowance
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] increaseAllowance
    -[Pub] decreaseAllowance
    -[Pub] collect #
    -[Pub] collectBNB #
    -[Int] _transfer #
    -[Int] _mint#
    -[Int] _burn #
    -[Int] _burnFrom #
    -[Int] _approve #
($) = payable function
```

= non-constant function

Page No. 10 www.hacksafe.io

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
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
20.	Too old version	Passed

Page No. 11 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.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

Page No. 12 www.hacksafe.io

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. Unlocked Compiler Version.

Description

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

Recommendation

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version ^0.8.0 the contract should contain the following line:

pragma solidity 0.8.7;

Page No. 13 www.hacksafe.io

Centralization

Owner Privileges:

- Fast To Earn Contract:
 - Owner can remove and transfer ownership.

This smart contract has some functions which can be executed by the Admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble but smart contract ownership has been renounced. Following are Admin functions:

- Transferownership
- Renounceownership

Page No. 14 www.hacksafe.io

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.

Page No. 15 www.hacksafe.io