

StakeKing Smart Contract Security Audit

Audit Details



Audited project

StakeKing



Deployer address

0x2A62B27e895ce0d2872d8c7D9762921551E8BbF2



Client contacts:

StakeKing team



Blockchain

Binance Smart Chain



Project website:



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

TechRate was commissioned by StakeKing to perform an audit of smart contracts:

- https://bscscan.com/address/0x109903345726DdAF2d12d90E 80AE5Aeb958Fbb51#code (StakeKingToken)
- https://bscscan.com/address/0xe15E58CD71C0239414eE4B0e FDa39Ac59F3a90ED#code (StakeKingFarm)

The purpose of the audit was to achieve the following:

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

The information in this report should be used to 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.

Contracts Details

Token contract details for 24.07.2021

Contract name	StakeKing
Contract addresses	0x109903345726DdAF2d12d90E80AE5Aeb958Fbb51 0xe15E58CD71C0239414eE4B0eFDa39Ac59F3a90ED
Total supply	2_000_000_000_000_000_000_000
Token ticker	CROWN
Decimals	18
Token holders	1
Transactions count	1
Top 100 holders dominance	100%
Liquidity fee	0
Sell Tax fee	10
CharityFee	0
Burn fee	0
Total fees	0
Contract deployer address	0x2A62B27e895ce0d2872d8c7D9762921551E8BbF2
Token contract's owner address	0x000000000000000000000000000000000000
Farm contract's owner address	0x2A62B27e895ce0d2872d8c7D9762921551E8BbF2

Contract functions details

StakeKingToken:

```
+ [Int] IBEP20
  - [Ext] totalSupply
 - [Ext] decimals
 - [Ext] symbol
 - [Ext] name
 - [Ext] getOwner
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
+ 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
+ [Int] | IFactory
 - [Ext] createPair #
+ [Int] IRouter
  - [Ext] factory
 - [Ext] WETH
+ StakeKingToken (Context, IBEP20)
  - [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 #
 - [Int] _transfer #
 - [Int] _approve #
($) = payable function, # = non-constant function
```

StakeKingFarm:

+ [Int] IBEP20 - [Ext] totalSupply - [Ext] decimals - [Ext] symbol - [Ext] name - [Ext] getOwner - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + 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 # + [Int] IFactory - [Ext] getPair + [Int] IRouter - [Ext] factory - [Ext] WETH - [Ext] addLiquidity # + StakeKingFarm (Context, Ownable) - [Pub] <Constructor> # - [Ext] setRewardToken # - modifiers: onlyOwner - [Ext] setTokenInfo # - modifiers: onlyOwner - [Ext] getReferralDeposit - [Ext] calcReward - [Prv] rewardAccount # - [Ext] depositBNB (\$) - [Ext] depositToken # - [Ext] withdraw #

(\$) = payable function, # = non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	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. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

- ✓ Medium Severity Issues
 No medium severity issues found.
- Low Severity IssuesNo low severity issues found.

Owner privileges (In the period when the owner is not renounced)

StakeKingToken – no owner.

StakeKingFarm:

• Owner can change allocation points of token info.

Conclusion

Smart contracts do not contain any issue!

TechRate 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.

