

TechRate
March, 2022



SMART CONTRACTS SECURITY AUDIT REPORT



Techrate_audits



Techrate



Techrate1

Audit Details



Audited project

Slap King



Deployer address

0x61aFa44E29340dcEa5e944c14e76236DC8A71357



Client contacts:

SlapKing team



Blockchain

Binance Smart Chain



Project website:

<http://www.slapking.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.

Background

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

<https://bscscan.com/address/0x61aFa44E29340dcEa5e944c14e76236DC8A71357#code>

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 17.03.2022

Contract name Spinach

Contract address 0x61aFa44E29340dcEa5e944c14e76236DC8A71357

Total supply 1,000,000,000

Token ticker SPN

Decimals 18

Token holders 1

Transactions count 2

Top 100 holders dominance 100.00%

Dividend tracker 0x9efa6c83ccb51be7e8be2cbe6a46061aedd5ddb

Base buy fees 1/4/1/1/3

Base sell fees 1/4/1/1/3

Pancakeswap pair 0x0a6b6dc24391da42dd12f6e4367963d8e46f46b3

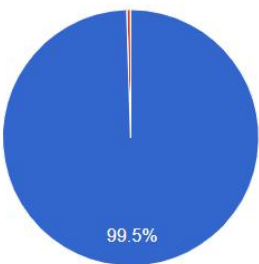
Contract deployer address 0xD081698fdF5c672cD37892c0c939876FAe2d

Owner address 0xD081698fdF5c672cD37892c0c939876FAe2d

Spinach Token Distribution

A total of 1 token holder SPN


Top 20 holders



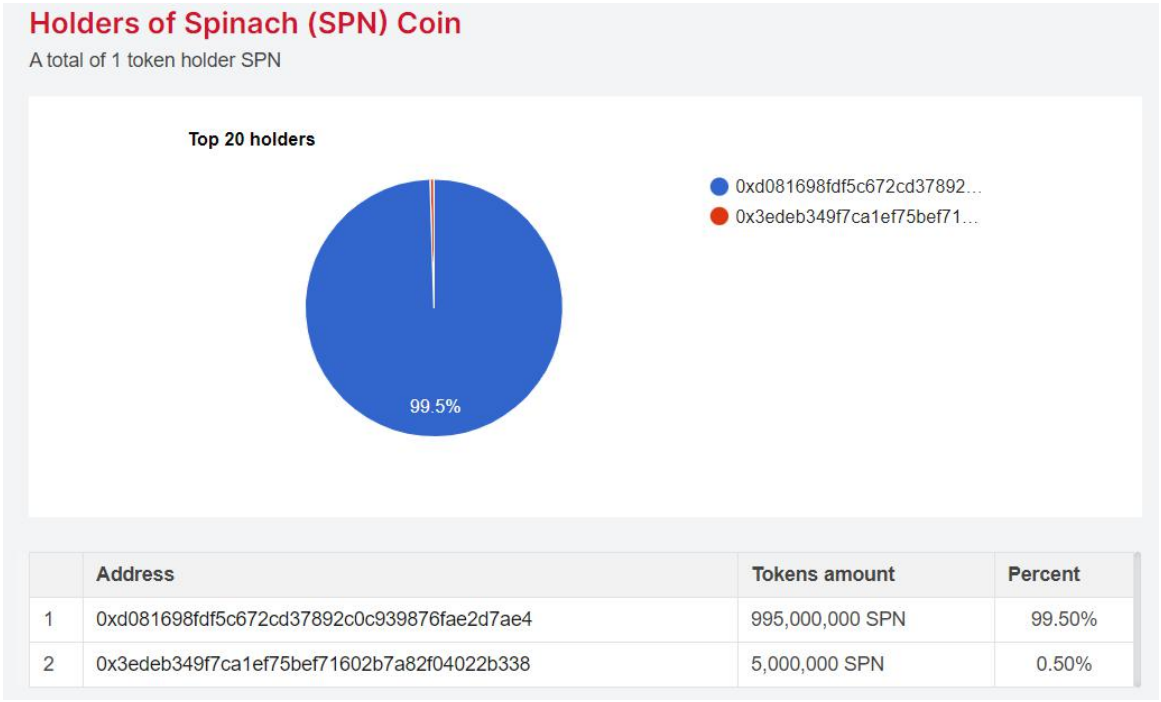
- 0xd081698fdf5c672cd37892...
- 0x3edeb349f7ca1ef75bef71...

Spinach Contract Interaction Details

SPN Price and Market Stats

SPN Liquidity:	\$
Check Spinach (SPN) Liquidity, Volume... 	
SPN Price:	\$
Market Cap:	\$
Trading Volume 24h:	\$
Volume / Market Cap:	N/A
Transactions 24h:	N/A
24h Low / 24h High:	N/A
7d Low / 7d High:	N/A
All-Time High:	N/A
All-Time Low:	N/A
Changes for 24h:	0.0000%
Changes for 7d:	0.00%

Spinach Top 10 Token Holders



Contract functions details

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Router01

- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens (\$)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens (\$)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn

+ [Int] IUniswapV2Router02 (IUniswapV2Router01)

- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

- + [Int] IUniswapV2Pair
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transfer #
 - [Ext] transferFrom #
 - [Ext] DOMAIN_SEPARATOR
 - [Ext] PERMIT_TYPEHASH
 - [Ext] nonces
 - [Ext] permit #
 - [Ext] MINIMUM_LIQUIDITY
 - [Ext] factory
 - [Ext] token0
 - [Ext] token1
 - [Ext] getReserves
 - [Ext] price0CumulativeLast
 - [Ext] price1CumulativeLast
 - [Ext] kLast
 - [Ext] mint #
 - [Ext] burn #
 - [Ext] swap #
 - [Ext] skim #
 - [Ext] sync #
 - [Ext] initialize #

- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #

- + [Int] IERC20Metadata (IERC20)
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals

- + [Int] DividendPayingTokenInterface
 - [Ext] dividendOf

- [Ext] distributeDividends (\$)
- [Ext] withdrawDividend #
- + [Int] DividendPayingTokenOptionalInterface
 - [Ext] withdrawableDividendOf
 - [Ext] withdrawnDividendOf
 - [Ext] accumulativeDividendOf
- + [Lib] SafeMath
 - [Int] add
 - [Int] sub
 - [Int] sub
 - [Int] mul
 - [Int] div
 - [Int] div
 - [Int] mod
 - [Int] mod
- + [Lib] SafeMathInt
 - [Int] mul
 - [Int] div
 - [Int] sub
 - [Int] add
 - [Int] abs
 - [Int] toUint256Safe
- + [Lib] SafeMathUint
 - [Int] toInt256Safe
- + [Lib] IterableMapping
 - [Pub] get
 - [Pub] getIndexOfKey
 - [Pub] getKeyAtIndex
 - [Pub] size
 - [Pub] set #
 - [Pub] remove #
- + Ownable (Context)
 - [Pub] <Constructor> #
 - [Pub] owner
 - [Pub] renounceOwnership #
 - modifiers: onlyOwner
 - [Pub] transferOwnership #
 - modifiers: onlyOwner

+ ERC20 (Context, IERC20, IERC20Metadata)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _beforeTokenTransfer #

+ DividendPayingToken (ERC20, Ownable, DividendPayingTokenInterface, DividendPayingTokenOptionalInterface)

- [Pub] <Constructor> #
 - modifiers: ERC20
- [Ext] <Fallback> (\$)
- [Pub] distributeDividends (\$)
 - modifiers: onlyOwner
- [Pub] withdrawDividend #
 - modifiers: onlyOwner
- [Int] _withdrawDividendOfUser #
- [Prv] swapBNBForTokensAndWithdrawDividend #
- [Pub] dividendOf
- [Pub] withdrawableDividendOf
- [Pub] withdrawnDividendOf
- [Pub] accumulativeDividendOf
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _setBalance #
- [Int] _setRewardToken #
 - modifiers: onlyOwner
- [Int] _setUniswapRouter #
 - modifiers: onlyOwner

+ ShitFaceInu (Ownable, ERC20)

- [Pub] <Constructor> #

- modifiers: ERC20
- [Ext] <Fallback> (\$)
- [Pub] decimals
- [Prv] _getNow
- [Pub] launch #
 - modifiers: onlyOwner
- [Pub] cancelLaunch #
 - modifiers: onlyOwner
- [Pub] activateTrading #
 - modifiers: onlyOwner
- [Pub] deactivateTrading #
 - modifiers: onlyOwner
- [Pub] updateDividendTracker #
 - modifiers: onlyOwner
- [Prv] _setAutomatedMarketMakerPair #
- [Pub] allowTradingWhenDisabled #
 - modifiers: onlyOwner
- [Pub] excludeFromFees #
 - modifiers: onlyOwner
- [Pub] excludeFromDividends #
 - modifiers: onlyOwner
- [Pub] excludeFromMaxWalletLimit #
 - modifiers: onlyOwner
- [Pub] blockAccount #
 - modifiers: onlyOwner
- [Pub] unblockAccount #
 - modifiers: onlyOwner
- [Pub] setFeeOnWalletTransfers #
 - modifiers: onlyOwner
- [Pub] setWallets #
 - modifiers: onlyOwner
- [Pub] setStakingAddress #
 - modifiers: onlyOwner
- [Pub] setAllFeesToZero #
 - modifiers: onlyOwner
- [Pub] resetAllFees #
 - modifiers: onlyOwner
- [Pub] setBaseFeesOnBuy #
 - modifiers: onlyOwner
- [Pub] setBaseFeesOnSell #
 - modifiers: onlyOwner
- [Pub] setLaunch2FeesOnBuy #
 - modifiers: onlyOwner
- [Pub] setLaunch2FeesOnSell #
 - modifiers: onlyOwner

- [Pub] setLaunch3FeesOnBuy #
 - modifiers: onlyOwner
 - [Pub] setLaunch3FeesOnSell #
 - modifiers: onlyOwner
 - [Pub] setUniswapRouter #
 - modifiers: onlyOwner
 - [Pub] setGasForProcessing #
 - modifiers: onlyOwner
 - [Pub] setMaxWalletAmount #
 - modifiers: onlyOwner
 - [Pub] setMinimumTokensBeforeSwap #
 - modifiers: onlyOwner
 - [Pub] setMinimumTokenBalanceForDividends #
 - modifiers: onlyOwner
 - [Ext] claim #
 - [Ext] claimBNBOverflow #
 - modifiers: onlyOwner
 - [Ext] isInLaunch
 - [Ext] getTotalDividendsDistributed
 - [Pub] withdrawableDividendOf
 - [Pub] dividendTokenBalanceOf
 - [Ext] getAccountDividendsInfo
 - [Ext] getNumberOfDividendTokenHolders
 - [Ext] getBaseBuyFees
 - [Ext] getBaseSellFees
 - [Int] _transfer #
 - [Prv] _adjustTaxes #
 - [Prv] _setCustomSellTaxPeriod #
 - [Prv] _setCustomBuyTaxPeriod #
 - [Prv] _swapAndLiquify #
 - [Prv] _swapTokensForBNB #
 - [Prv] _addLiquidity #
- + ShitFaceInuDividendTracker (DividendPayingToken)
- [Pub] <Constructor> #
 - modifiers: DividendPayingToken
 - [Ext] setRewardToken #
 - modifiers: onlyOwner
 - [Ext] setUniswapRouter #
 - modifiers: onlyOwner
 - [Int] _transfer #
 - [Ext] excludeFromDividends #
 - modifiers: onlyOwner
 - [Ext] setTokenBalanceForDividends #
 - modifiers: onlyOwner

- [Ext] updateClaimWait #
 - modifiers: onlyOwner
- [Ext] getLastProcessedIndex
- [Ext] getNumberOfTokenHolders
- [Pub] getAccount
- [Pub] getAccountAtIndex
- [Prv] canAutoClaim
- [Ext] setBalance #
 - modifiers: onlyOwner
- [Pub] process #
 - modifiers: onlyOwner
- [Pub] processAccount #
 - modifiers: onlyOwner

(\$) = 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

✓ High Severity Issues
No high severity issues found.

✓ Medium Severity
Issues No medium severity
issues found.

✓ Low Severity Issues
No low severity issues found.

Notes:

- totalBNBFee includes staking fee in _swapAndLiquify function.

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

- Owner can launch/stop the contract.
- Owner can enable/disable trading.
- Owner can change dividend tracker.
- Owner can include addresses in `_isAllowedToTradeWhenDisabled` array.
- Owner can exclude from fees, dividends, max wallet limit.
- Owner can block/unblock accounts.
- Owner can enable/disable `_feeOnWalletTranfers`.
- Owner can change all fees.
- Owner can change fee receivers addresses.
- Owner can change router address.
- Owner can change gas for processing.
- Owner can change `maxWalletAmount`.
- Owner can change `minimumTokensBeforeSwap`.
- Owner can change dividend tracker's token balance for dividends.
- Owner can withdraw contract BNBs.

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are NOT provided by the team.

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.