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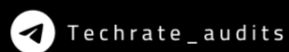RATE

SMART CONTRACTS SECURITY

AUDIT REPORT

Audit Details

Audited project

Shinjiru Inu

Deployer address

0x1ae66a7070bfabc33715a494b4f59ae1e82e3072

Client contacts:

Shinjiru Inu team

Blockchain

Binance Smart Chain

Project website:

Shinjiruinu.com

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 Shinjiru Inu to perform an audit of smart contracts:
https://bscscan.com/address/0x6dfd3103E680e85A4e1fB4903Ec4E99bDfAfC182#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 09.06.2022

Contract name	Shinjiru Inu
Contract address	0x6dfd3103E680e85A4e1fB4903Ec4E99bDfAfC182
Total supply	984,815,492,855,646.439872
Token ticker	SHINJI
Decimals	9
Token holders	3,553
Transactions count	22,132
Top 100 holders dominance	61.71%
Auto LP percent	15
Buy fee	3
Sell fee	4
Uniswap V2 pair	0x9ecdb3b3fd01184b7568d4f789fd350867140e77
Contract deployer address	0x1ae66a7070bfabc33715a494b4f59ae1e82e3072
Owner address	0x0000000000000000000000000000000000000000

Shinjiru Inu Token Distribution

Shinjiru Inu Top 100 Token Holders
Source: BscScan.com

0x9ecdb3b3fd01184b7568d4f789fd350867140e77
(PancakeSwap V2: SHINJI 36)
0xb507134a7a9e60d73c736ebcc604e824cbef3bfd
0x45026debc8fef1e937a56bc4a254e830697a2184
0x68ef49f31ea1a011ad1754261abdad0af97342fd
0x72c619fc945e0ea664bbe0b9fd851a22979120e1
0xb37afb3cdf91f649160eb04ae5ddef80fe4badac
0x123d10fa03e120a1dc875a570efe2984d9176d41

OTHER ACCOUNTS

0x1be8406ff2e225489947bf82ee87e724bef847a4
0x8396a60f85bba2939cd51fa6c8bc5991245741e7
0x3b3383d131b1ff66b465547acd5c85d87065b11e

(A total of 607,739,974,781,676.00 tokens held by the top 100 accounts from the total supply of 984,815,437,261,415.56 token)

Shinjiru Inu Contract Interaction Details

Time Series: Token Contract Overview   Mon 6, Jun 2022 - Wed 8, Jun 2022

Token Contract 0x6dfd3103E680e85A4e1fB4903Ec4E99bDfAfC182 (Shinjiru Inu)
Source: BscScan.com

● Transfer Amount   -●- Transfers Count   -●- Unique Receivers   -●- Unique Senders   -▲- Total Uniques

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Shinjiru Inu Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	PancakeSwap V2: SHINJI 36	69,375,107,730,238.783445817	7.0445%
2	0xb507134a7a9e60d73c736ebcc604e824cbef3bfd	23,671,013,838,401.692755346	2.4036%
3	0x45026debc8fef1e937a56bc4a254e830697a2184	19,387,067,000,000	1.9686%
4	0x68ef49f31ea1a011ad1754261abdad0af97342fd	17,436,428,311,845.763701449	1.7705%
5	0x72c619fc945e0ea664bbe0b9fd851a22979120e1	17,042,260,214,968.765936681	1.7305%
6	0xb37afb3cdf91f649160eb04ae5ddef80fe4badac	16,514,604,785,035.254296053	1.6769%
7	0x123d10fa03e120a1dc875a570efe2984d9176d41	14,700,027,472,466.521479891	1.4927%
8	0x18f6dcefe26ee8ad6d6c138dffe9248c018eb8a6	13,398,005,538,713.919034317	1.3605%
9	0x14a7b19b793bc9312f79c8630414dd07048d92d8	12,379,702,524,184.570913998	1.2571%
10	0x4e9b99ab115136cf1b9d6b63fc106b29e00086db	10,472,968,185,657.465612069	1.0634%

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Contract functions details

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

+ [Lib] SafeMath
- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] sub
- [Int] div

+ Context
- [Int] _msgSender
- [Int] _msgData

+ [Lib] Address
- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Int] functionStaticCall
- [Int] functionStaticCall
- [Int] functionDelegateCall #
- [Int] functionDelegateCall #
- [Prv] _verifyCallResult

+ [Int] IUniswapV2Factory
- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #

- [Ext] setFeeToSetter #

+ [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] burn #
  - [Ext] swap #
  - [Ext] skim #
  - [Ext] sync #
  - [Ext] initialize #

+ [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 #

+ Shinjiru (Context, IERC20)
- [Pub] owner
- [Pub] renounceOwnership #
- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Ext] <Fallback> ($)
- [Prv] _getCurrentSupply
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] sendToWallet #
- [Prv] swapAndLiquify #
  - modifiers: lockTheSwap
- [Prv] swapTokensForBNB #
- [Prv] addLiquidity #
- [Pub] remove_Random_Tokens #
- [Prv] _tokenTransfer #

($) = 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.**	High issues
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

1. Burn issue

Issue:

- At every transfer with burn wallet it's balances changing, also total supply is decreasing. After some number of that kind of operations sum of the contract balances will not equal total supply.

Recommendation:
Revise burn logic of the contract and keep only one way of burning – decreasing total supply, or sending tokens to zero address.

⊘ Medium Severity Issues

No medium severity issues found.

⊘ Low Severity Issues

No low severity issues found.

Conclusion

Smart contracts 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 provided by the team:
https://www.team.finance/view-coin/0x6dfd3103E680e85A4e1fB4903Ec4E99bDfAfC182?name=Shinjiru%20Inu&symbol=SHINJI&chainid=0x38

Ownership renounce details are provided by the team:
https://bscscan.com/tx/0xfc6f683d2f1b9ebf0225aae9625bda93016a2602cc9bdf420bbf65c79122932f

TechRate note:
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