



SMART CONTRACT SECURITY AUDIT

WATCHTOWER

AUDIT DETAILS



Project Name
DonkSwap Token



Contract address
0x3969Fe107bAe2537cb58047159a83C33dfbD73f9



Deployer Address:
0xc24324Cf5C8027317c048A88C711772488574Cdb



Blockchain
Binance Smart Chain



Project website:
<http://www.DonkSwap.com>



DISCLAIMER

Watchtower has completed this report to provide a summary of the Smart Contract functions, and any security, dependency or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as at the date of this report. In order to understand the full scope of our analysis, it is vital for you to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against Watchtower or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your own independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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ABOUT THE AUDITOR:

Watchtower is an Anti-Scam Token Utility which reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity.

Watchtowers Development Team consists of a number of Smart Contract creators, Auditors Developers and Blockchain experts.

Watchtowers Website Scanner reviews a number of Risk factors to provide an adequate Risk summary of token projects.

In Addition to this the team also helps with Creation of Smart Contracts for legitimate projects, Audits and Promotion.





OVERVIEW

Watchtower was commissioned by DonkSwap to complete a Smart Contract audit.

The objective of the Audit is to achieve the following:

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

DISCLAIMER: This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, All investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)



SMART CONTRACT REVIEW



Contract Created on the 16th May 2021

| | |
|----------------------------------|--|
| Contract name | DonkSwap Token |
| Contract address | 0x3969Fe107bAe2537cb58047159a83C33dfbD73f9 |
| Total supply | 700,000,000,000,000 |
| Token ticker | DST |
| Decimals | 9 |
| Token holders | 2,310 |
| Transactions count | 2,784 |
| Top 5 holders dominance | 15% excl 70% migration wallet |
| Tax fee | 6% |
| Total fees | 6% ~ BUY / SELL |
| Contract deployer address | 0x2d6165C577759aD3379cEB33Bb659f5dC9A9f4F4 |
| Contract's current owner address | 0x55a46FceD2d46C64EEE7189a50004627559E81B1 |



WalletNow Overview

Project Details:

Donkey King Finance has launched their own BSC exchange that will focus on only listing projects that have passed a full contract audit and have doxed their Development Team.

The team is also developing its own BSC Casino that is expected to launch by Q2 of 2022. Projects listed on DonkSwap will be able to feature their tokens in the casino.

Tokenomics:

Starting Supply: 700,000,000,000,000 (700 Trillion)

6% Tax for Buys and Sells which comprises of:

2% Burn

2% Redistribution to Holders

2% Automatic Liquidity

Team Review:

Watchtower reviewed a number of factors including the teams background and Cryptocurrency experience, social media interaction and availability, project momentum, token risks and community trust score.

The Donkey King Finance Team has conveyed sound Cryptocurrency knowledge, Technical Blockchain and Web development skills conveyed by the quality of development and Web 3 Applications for the DonkSwap exchange.

(<https://donkswap.com/#/swap>)



CONTRACT FUNCTIONS DETAILS

Functions (Public)

1. approve (address,uint256)
2. decreaseAllowance (address,uint256)
3. deliver (uint256)
4. excludeFromFee (address)
5. excludeFromReward (address)
6. includeInFee (address)
7. includeInReward (address)
8. increaseAllowance (address,uint256)
9. lock (uint256)
10. removeAllFees
11. renounceOwnership
12. restoreAllFees
13. setDevFeePercent (uint256)
14. setLiquidityFeePercent (uint256)
15. setMaxTxPercent (uint256)
16. setSwapAndLiquifyEnabled (bool)
17. setTaxFeePercent (uint256)
18. transfer (address,uint256)
19. transferDevAddress (address)
20. transferFrom (address,address,uint256)
21. transferOwnership (address)
22. unlock



Contract Stress Test

Imported Libraries / Interfaces

- IERC20
- SafeMath
- Context
- Address
- Ownable
- IUniswapV2Factory
- IUniswapV2Pair
- IUniswapV2Router01
- IUniswapV2Router02

Overview

| | |
|--|----|
| 1. ADDITION OF COMMENTS: | 8 |
| 2. CALL STACK DEPTH ATTACK: | 10 |
| 3. TIME STAMP DEPENDENCY: | 10 |
| 4. PARTY MULTISIG BUG: | 10 |
| 5. USE OF LIBRARIES/DEPENDENCIES (FROM TRUSTED SOURCES): | 10 |
| a. TRANSACTION-ORDERING DEPENDENCY: | 10 |
| 6. ACCESS CONTROL AND AUTHORIZATION: | 10 |
| 7. REENTRANCY ATTACKS: | 10 |
| 8. ERC/BEP STANDARD VIOLATIONS: | 10 |
| 9. USAGE OF VISIBILITY LEVELS: | 10 |



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 |



| Issue description | Checking status |
|--|-----------------|
| 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

Pair Address not excluded from rewards - (Resolved on 8/10/2021)



Medium Severity Issues

- `numTokensSellToAddLiquidity` is set to `50,000,000,000,000` and it could cause a dump.
- Centralization Risk:
 - `setLiquidityFeePercent`, `setDevFeePercent`, `setTaxFeePercent` can be set to 100 disallowing users to trade.
 - `setMaxTxPercent` can be set to 0 disallowing users to make transactions



Low Severity Issues

When the contract enters the branch `else if (!_isExcluded[sender] && !_isExcluded[recipient])`, the contract will execute the same piece of code `_transferStandard(sender, recipient, amount)`



CONCLUSION



Watchtower reviewed DonkSwap's deployed and verified contract to conduct this audit.

Watchtower is satisfied that the contract has no malicious coding and that no severe issues have been found.

The Donkswap team responded to an urgent fix of the pair address needing to be excluded from rewards to avoid skimming risk.

Watchtower Disclaimer:

Please check the disclaimer page and note, this Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or in any way provide financial advice, please do your own research. By reading this report you accept and agree to the disclaimer and understand investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)

Contact Us

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 Watchtowercrypto

