engelee

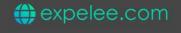
Building the Futuristic Blockchain Ecosystem

Security Audit Report FOR



Space Doge





OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks.

According to the smart contract audit:

Audit Result	Passed with High Risk
KYC Verification	-
Audit Date	4 Feb 2023

Audit Passed With High Risk

-Team Expelee





PROJECT DESCRIPTION

Space Doge

Buy/Stake sdoge and Earn WETH







Space Doge



- https://spacedoge.money/#/home
- https://t.me/spacedoge_money
- https://twitter.com/spacedoge_money

It's always good to check the social profiles of the project, before making your investment.

-Team Expelee





CONTRACT DETAILS

Token Name

SpaceDoge

Network

dogechain

Symbol

sDOGE

Language

Solidity

Contract Address (Verified)

0x9c52a1BABd62973BaBa7C81B412994A31d4aD31a

Token Type

TRC20

Compiler

v0.6.12+commit.27d51765

Total Supply

10,000,000

Optimization Enabled

Yes with 200 runs

Contract SHA-256 Checksum:

d3a2080b82afbec6ed19b46a7bfb6f809f88ef88daf39a4aa86952c456848abd

Owner's Wallet

0x943B3a966Ed16a361551ADBA9C444f7176a0fFd0

Deployer's Wallet

0x943B3a966Ed16a361551ADBA9C444f7176a0fFd0



AUDIT METHODOLOGY



Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.



Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.



Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability



Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Complier
- Hardhat





FUNCTION OVERVIEW

Can Take Back Ownership

Owner Change Balance

Blacklist

Modify Fees

Proxy

Whitelisted

Anti Whale

Trading Cooldown

Transfer Pausable

Cannot Sell All

Hidden Owner

Mint

Not Detected



VULNERABILITY CHECKLIST

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

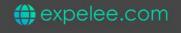
Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.







AUDIT SUMMARY

Tools

1- Manual review:

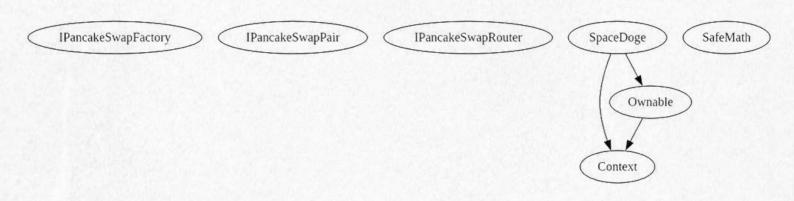
A line by line code review has been performed by Expelee team.

2- BSC Test network:

All tests were done on BSC Test network, each test has its transaction has attached to it. You can check this tests in "functionality tests" section of the report.

3- Slither: Static analysis

Inheritance Trees:





CONTRACT ASSESSMENT

```
F.
| Contract |
            Type
                       Bases |
                                     | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
IIIIIII
| **IPancakeSwapFactory** | Interface | ||| | |
| L | feeTo | External | | NO | |
| L | feeToSetter | External | | NO ! |
| L | getPair | External | | NO | |
| L | allPairs | External | | NO | |
| L | allPairsLength | External | | NO | |
| L | createPair | External | | | NO | |
| L | setFeeTo | External | | | NO | |
| L | setFeeToSetter | External | | | NO | |
HIIII
| **IPancakeSwapPair** | Interface | ||| | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | | NO | |
| L | DOMAIN_SEPARATOR | External | | NO | |
| L | PERMIT_TYPEHASH | External | | NO | |
| L | nonces | External | | NO | |
| L | permit | External | | 🛑 | NO ! |
```



```
| L | MINIMUM_LIQUIDITY | External | | NO | | | | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | NO | |
| L | priceOCumulativeLast | External | | NO | |
| | price1CumulativeLast | External | NO | |
| L | kLast | External | | NO | |
| | | mint | External | | | | NO | |
| L|burn|External | | | NO | |
| L | swap | External | | | NO | |
| | | skim | External | | | | NO | |
| L | initialize | External | | | NO | |
ШШ
| **IPancakeSwapRouter** | Interface | ||| | | |
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | | NO | |
| L | addLiquidityETH | External | | 💷 | NO 📗 |
| | removeLiquidity | External | | | | NO | |
| | removeLiquidityETH | External | | | | NO | |
| | removeLiquidityWithPermit | External | | | | NO | |
| | removeLiquidityETHWithPermit | External | | | | NO | |
| L | swapExactTokensForTokens | External | | | NO | |
| | swapExactETHForTokens | External | | 💵 | NO | |
| | swapTokensForExactETH | External | | | | NO | |
| L | swapExactTokensForETH | External | | | | NO | |
| L | swapETHForExactTokens | External | | 💵 | NO ! |
```



```
| L | quote | External | | NO | | | |
| L | getAmountOut | External | | NO | |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
| | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | | NO | |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | NO | |
IIIIII
| **Context** | Implementation | |||
| L | <Constructor> | Internal 🔒 | 🛑 | |
| L | _msgSender | Internal 🔒 | | |
| L | _msgData | Internal 🔒 | | |
IIIIIII
| **Ownable** | Implementation | Context ||| |
| L | <Constructor> | Internal 🔒 | 🛑 | |
| L | owner | Public | | NO | |
| L | _transferOwnership | Internal 🔒 | 🛑 | |
ШШ
| **SafeMath** | Library | |||
| L | add | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
```



```
| L | mod | Internal 🔒 | | |
| <sup>|</sup> | mod | Internal 🔒 | | |
ШШ
| **SpaceDoge** | Implementation | Context, Ownable | | | | | |
| L | getOwner | External | | NO | |
| L | decimals | External | | NO | |
| L | symbol | External | | NO | |
| L | name | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | transferFrom | External ! | • | NO! |
| L | decreaseAllowance | Public | | | | NO | |
| L | burn | External | | | | NO | |
| L | _mint | Internal 🔒 | 🛑 | |
| L | _burn | Internal 🔒 | 🛑 | |
| L | _approve | Internal 🔒 | 🛑 | |
| L | _burnFrom | Internal 🔒 | 🛑 | |
| L | <Constructor> | Public | | | | NO | |
| L | setInitialAddresses | External | | | | onlyOwner |
| L | setMaxTxAmount | External | | | | onlyOwner |
| L | setbuyFee | External | | | | onlyOwner |
| L | setsellFee | External | | | OnlyOwner |
| L | getTotalSellFee | Public | | NO | |
| L | getTotalBuyFee | Public | | NO | |
```





Legend





Static Analysis

A static analysis of contract's source code has been performed using slither. No major issues were found in the output

```
Context_maghata() (contracts/TextToken.sol#33.134) is never used and should be removed 
Safethth, modium1256_Unit256_Contracts/TextToken.sol#37.59) is never used and should be removed 
Safethth, modium1256_Unit256_Contracts/TextToken.sol#37.59) is never used and should be removed 
SpaceOppe_sain(address_unit256) (contracts/TextToken.sol#37.777) is never used and should be removed 
SpaceOppe_sain(address_unit256) (contracts/TextToken.sol#37.777) is never used and should be removed 
SpaceOppe_sain(address_unit256) (contracts/TextToken.sol#37.777) is never used and should be removed 
SpaceOppe_sain(address_unit256) (contracts/TextToken.sol#37.777) is never used and should be removed 
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SpaceOppe_sain(address_unit256) (contracts/TextToken.sol#37.777) is never used and should be removed 
SpaceOppe_sain(address_unit256) (contracts/TextToken.sol#37.777) is never used and should be removed 
SpaceOppe_sain(address_unit256) (contracts/TextToken.sol#37.777) is never used and should be removed 
SpaceOppe_sain(address_unit256,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit366,unit3
```





Summary

- Owner is able to set taxes up to 100%
- Owner is able to set max buy/sell/transfer amount to 0
- Owner is able to disable trades by setting max tax to 0
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to mint new tokens



MANUAL AUDIT

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to a methodology based on OWASP standards.

Vulnerabilities are divided into three primary risk categories: high, medium, and low.

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious Input Handling
- Escalation of privileges
- Arithmetic
- Gas use

	Ove	rall Risk Seve	rity	
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Note	Low	Medium
		LOW	MEDIUM	HIGH
	Likelihood			



FINDINGS

- High Risk Findings:2
- Medium Risk Findings:1
- Low Risk Findings:0
- Suggestions & discussion: 1

High Risk Issues:

Centralization – Owner is able to set buy and sell taxes up to 100%

```
function setbuyFee(
   uint256 _rewardFee,
    uint256 operationFeet,
   uint256 _liquidityFee,
   uint256 poolfee:
) external onlyOwner {
    //@audit no limitations
    buyFees.reward = _rewardFee;
    buyFees .operation = _operationFee;
buyFees .liquidity = _liquidityFee;
    buyFees.poolfee = _poolfee;
    emit SetBuyFee(buyFees);
function setsellFee(
   uint256 _rewardFee,
   uint256 operationFee,
   uint256 _liquidityFee,
uint256 _poolfee
) external onlyOwner {
    sellFees.reward = _rewardFee;
    sellFees.operation = _operationFee;
    sellFees.liquidity = _liquidityFee;
    sellFees.poolfee = _poolfee:;
    emit SetSellFee(sellFees);
```

Suggestion: set a limit for max buy/sell tax



expelee



Centralization – Owner is able to set max buy/sell/transfer amounts to 0

Suggestion: set a limit for max tax

expelee



Medium:

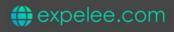
Centralization – Auto-liquidity generated tokens are sent to owner's wallet (EOA wallet)

```
function addLiquidity(uint256 tokenAmount; uint256 ethAmount;) private {
    _approve(address(this), address(PancakeSwapRouter), tokenAmount;);

PancakeSwapRouter.addLiquidityETH{value: ethAmount;}(
    address(this),
    tokenAmount;,
    0, // slippage is unavoidable
    0, // slippage is unavoidable
    owner(),
    block.timestamp
);
}
```

Suggestion: burn auto-liquidity generated tokens.





Suggestion:

Use latest version of solidity compiler



ABOUT EXPELEE

Expelee is a product-based aspirational Web3 Start-up.
Coping up with numerous solutions for blockchain Security and constructing a Web3 Ecosystem from Deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

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