

**Building the Futuristic Blockchain Ecosystem** 

# SECURITY AUDIT REPORT

Doge King



# **TOKEN OVERVIEW**

#### **Risk Findings**

Severity	Found	
High	1	
Medium	1	
<ul><li>Low</li></ul>	0	
Informational	1	

#### **Centralization Risks**

Owner Privileges	Description	
Can Owner Set Taxes >25%?	Not Detected	
Owner needs to enable trading?	Detected	
Can Owner Disable Trades ?	Not Detected	
Can Owner Mint?	Not Detected	
Can Owner Blacklist?	Not Detected	
Can Owner set Max Wallet amount?	Not Detected	
Can Owner Set Max TX amount ?	Not Detected	



# **TABLE OF** CONTENTS

02	Token Overview ————————————————————————————————————
03	Table of Contents
04	Overview
05	Contract Details ————————————————————————————————————
06	Audit Methodology
07	Vulnerabilities Checklist ————————————————————————————————————
08	Risk Classification
09	Inheritence Trees
10	Static analysis ———————————————————————————————————
11	Testnet Version
12	Manual Review ————————————————————————————————————
17	About Expelee
18	Disclaimer ————————————————————————————————————



# **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
Audit Date	25 May 2024



# **CONTRACT DETAILS**

Token Address: 0x56346C19F15CC2a27e6b2991c176Bba7E9554fbB

Name: Doge King

Symbol: DogeKing

Decimals: 18

**Network:** BscScan

Token Type: BEP-20

Owner: 0x91BA890c9D5242ea576a9B60D3dc4A7e03275335

**Deployer:** 0x91BA890c9D5242ea576a9B60D3dc4A7e03275335

**Token Supply: 10000000000** 

Checksum: A2032c616934aeb47e6039f76b20d311

#### **Testnet:**

https://testnet.bscscan.com/address/0x6c1c66780b157c64f9665b27020882a6676d6eef#code



# 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**

- Manual Review: The code has undergone a line-by-line review by the Ace team.
- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.
- Slither: The code has undergone static analysis using Slither.



# VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps 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 Zepplin module	Passed



# RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces 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**

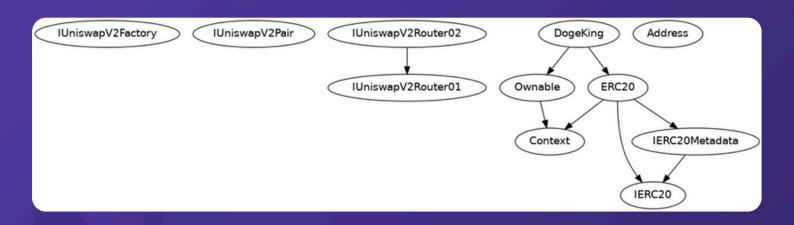
Issues on this level are minor details and warning that can remain unfixed.

#### **Informational**

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



# **INHERITANCE TREE**





# STATIC ANALYSIS



## **TESTNET VERSION**

#### 1- Approve (passed):

https://testnet.bscscan.com/tx/0x4183cc2c40d76d0a606113c91ebf79a8e9b75272f4d0f866836b6c2fbf9d2626

#### 2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x5c13dca833648c8e17f9c2d1b 7ec7c3047739a0773e1af4d4566d9d5d19d58a4

#### 3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0xa265ebcb239e6cf9f96c5bb2d32ba04d2589badc2831088b94cd3b38bd58bf91

#### 4- Change Marketing Wallet (passed):

https://testnet.bscscan.com/tx/0x8a01f8b927f3f4f766e1bf2fdb970b62a20d154405b7c97cd1eb2791c74f0506

#### 5- Update Buy Fees (passed):

https://testnet.bscscan.com/tx/0xecf36e62c4c79fe8f7bf2fd05b91c0e97149cf9ba6698edf7c95af86889c9ef2

#### 6- Update Sell Fees (passed):

https://testnet.bscscan.com/tx/0xff15a929f2bccc83e270ac4be1f92bc2600b3dee2700dcad817068bf418abffe



### **MANUAL REVIEW**

#### **Severity Criteria**

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

Vulnerabilities are dividend into three primary risk categroies:

High

Medium

Low

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

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity							
Impact	HIGH	Medium	High	Critical			
	MEDIUM	Low	Medium	High			
	LOW	Note	Low	Medium			
		LOW	MEDIUM	HIGH			
	Likelihood						



### **HIGH RISK FINDING**

#### **Centralization – Enabling Trades**

**Severity: High** 

Function: EnableTrading

**Status: Open** 

#### **Overview:**

The EnableTrading function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function enableTrading() external onlyOwner{
    require(!tradingEnabled, "CSLT: Trading already enabled.");
    tradingEnabled = true;
    swapEnabled = true;

emit TradingEnabled(tradingEnabled);
}
```

#### **Suggestion:**

To reduce centralization and potential manipulation, consider one of the following approaches:

1.Automatically enable trading after a specified condition, such as the completion of a presale, is met.

2.If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can give investors more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.



### **MEDIUM RISK FINDING**

Centralization – Missing Require Check.

**Severity: Medium** 

Function: change Marketing Wallet

Status: Open

#### **Overview:**

The owner can set any arbitrary address excluding zero address as this is not recommended because if the owner will set the address to the contract address, then the Eth will not be sent to that address and the transaction will fail and this will lead to a potential honeypot in the contract.

```
function changeMarketingWallet(address _marketingWallet) external
onlyOwner {
    require(_marketingWallet != marketingWallet, "Marketing wallet is already
that address");
    require(_marketingWallet != address(0), "Marketing wallet cannot be the
zero address");
    marketingWallet = _marketingWallet;
    emit MarketingWalletChanged(marketingWallet);
}
```

**Suggestion:** It is recommended that the address should not be able to set as a contract address.



#### **INFORMATIONAL & OPTIMIZATIONS**

#### **Optimization**

**Severity: Optimization** 

Subject: Remove unused code.

**Status: Open** 

#### **Overview:**

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. It is the best practice though to avoid them.

```
interface IUniswapV2Factory {
 event PairCreated(address indexed token0, address indexed token1, address
pair, uint);
 function feeTo() external view returns (address);
 function feeToSetter() external view returns (address);
 function getPair(address tokenA, address tokenB) external view returns
(address pair);
 function allPairs(uint) external view returns (address pair);
 function allPairsLength() external view returns (uint);
 function createPair(address tokenA, address tokenB) external returns
(address pair);
 function setFeeTo(address) external;
 function setFeeToSetter(address) external;
```



#### **INFORMATIONAL & OPTIMIZATIONS**

```
function _msgData() internal view virtual returns (bytes calldata) {
    this;

// silence state mutability warning without generating bytecode - see
    https://github.com/ethereum/solidity/issues/2691
    return msg.data;
}
```



### **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.

### www.expelee.com

- 🔰 expeleeofficial
- expelee

Expelee

- in expelee
- expelee\_official
- 👩 expelee-co



**Building the Futuristic Blockchain Ecosystem** 



# **DISCLAIMER**

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantess against the sale of team tokens or the removal of liquidity by the project audited in this document.

Always do your own research and project yourselves from being scammed. The Expelee team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools.

Under no circumstances did Expelee receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Alway do your own research and protect yourselves from scams.

This document should not be presented as a reason to buy or not buy any particular token. The Expelee team disclaims any liability for the resulting losses.



**Building the Futuristic Blockchain Ecosystem**