# expelee

**Building the Futuristic Blockchain Ecosystem**

# SECURITY AUDIT REPORT



## KINU

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# 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** |
| **KYC Verification** | **-** |
| **Audit Date** | **26 May 2023** |

# PROJECT DESCRIPTION

#KINU, the latest addition to the cryptocurrency world! Kinu is a new meme token on the Binance Smart Chain (BSC) that promises to bring some innovative and excitement features for the blockchain.

# SOCIAL MEDIA PROFILES

## KINU
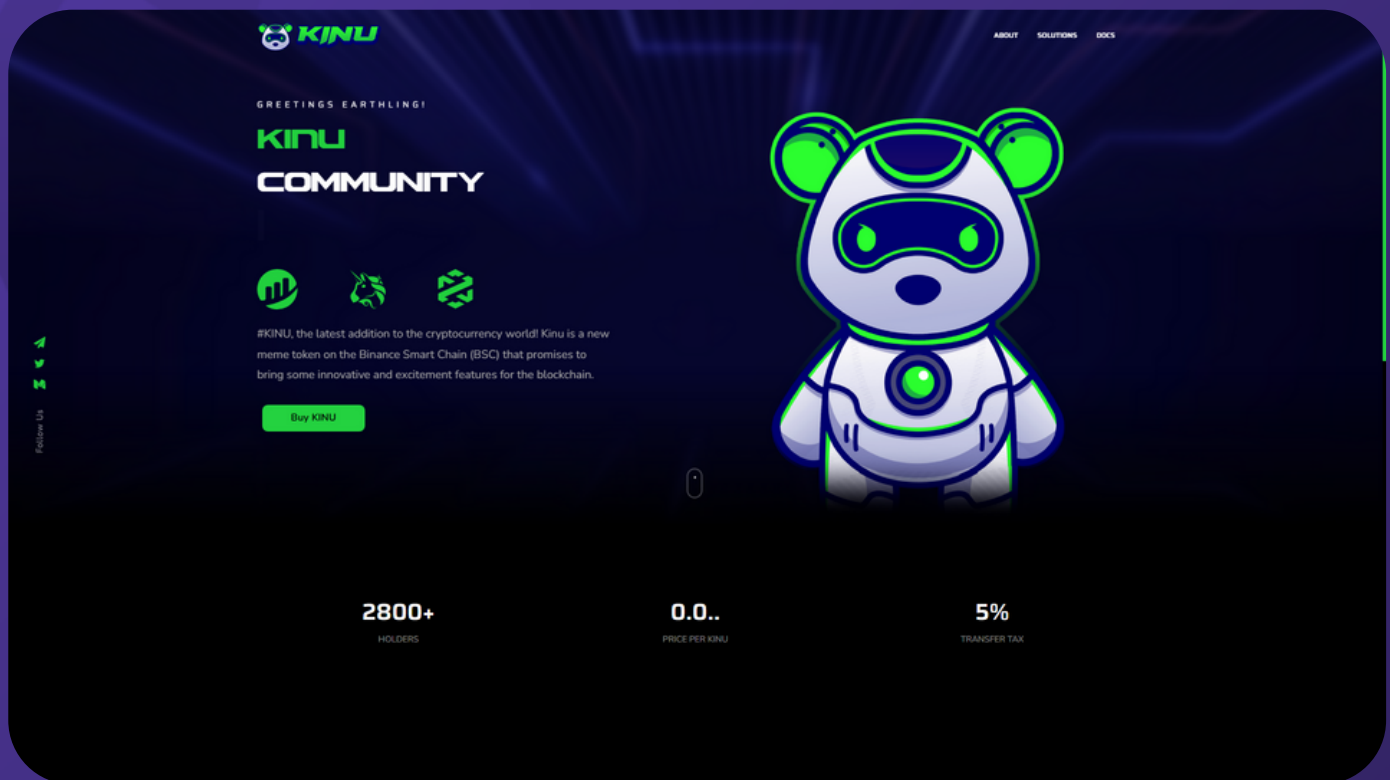


https://t.me/KINU_Entry

https://twitter.com/kinu_token

https://www.kinutoken.net/

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

**Team Expelee**

expelee

# CONTRACT DETAILS

**Token Name: Kinu**

**Symbol:  Kinu**

**Network: Binance Smart Chain**

**Language: Solidity**

**Contract Address: -**
0x4D1e1fcB1cDC543a7123eF79154f651d0CC10838

**Total Supply: 420,690,000,000,000**

**Owner's Wallet: -**
0x3427D21A9aa455AEBfD2345477e25e999692037f

**Deployer's Wallet: -**
0x3427D21A9aa455AEBfD2345477e25e999692037f

# OWNER PRIVILEGES

- Contract owner can set marketing wallet address
- Sum of all fees can not exceed 25% (buy + sell + fee <= 25%)
- Contract owner can toggle swapping on and off
- Contract owner can whitelist or unwhitelist wallets
- Contract owner can not mint new tokens
- Contract owner can not disable trades
- Contract owner can not blacklist wallets

# 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
- Compiler
- Hardhat

# 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.
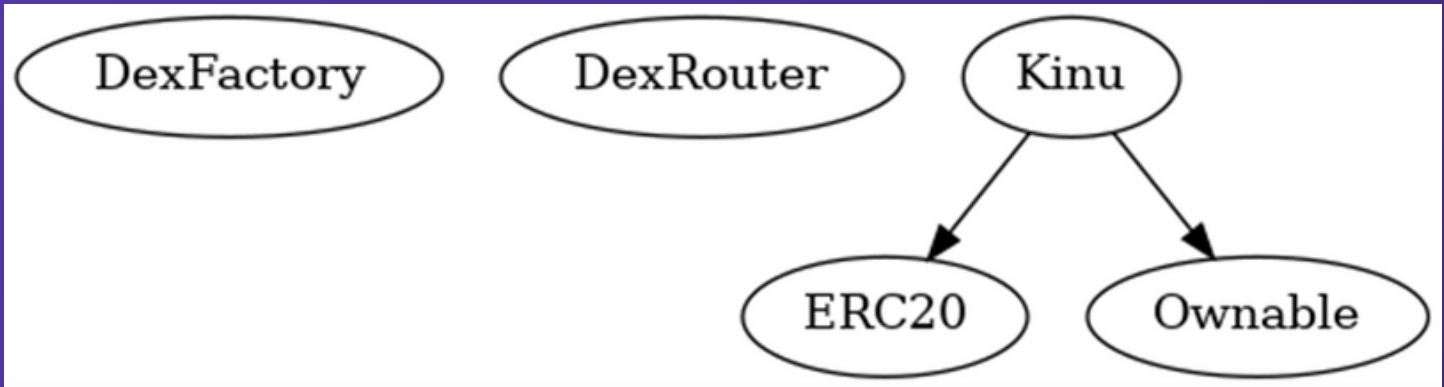
## Low Risk

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 TREES

eXpelee

# TESTNET VERSION

**Adding Liquidity** ✓
**Tx:**
https://testnet.bscscan.com/tx/0xda3e8b17a2da04492b17e4b
c52d5870454717de86378a3142fd38ef5a1766ca4

==========================================================

**Buying from a fee excluded wallet** ✓
**Tx (0% tax):**
https://testnet.bscscan.com/tx/0xd6e4067e7839c913690eb6
2f3e12859926306fb4fc1ae1ed39fb7a9f3fffae2b

==========================================================

**Selling from a fee excluded wallet** ✓
**Tx (0% tax):**
https://testnet.bscscan.com/tx/0x241fee50d4f8a7cea62ae6f0
60cb7821c2011273c642750790be3779903f1952

==========================================================

**Transferring using a fee excluded wallet** ✓
**Tx (0% tax):**
https://testnet.bscscan.com/tx/0xce89cbce9e04cc9d6e3885
37c0ee331d5892965e09f2f5d46d9ab2e2a77a9fd6

==========================================================

# TESTNET VERSION

**Buying from a regular wallet** ✓
**Tx (0-12% tax):**

https://testnet.bscscan.com/tx/0xcfe4f3f85d779e196e37eb87c608c5ce8a6222fdd660b7d431a033c40d065d63

======================================================

**Selling from a regular wallet** ✓
**Tx (0-12% tax):**

https://testnet.bscscan.com/tx/0x752c0a72020c4430def9dc63c8f51009e44e01f099951b7764533a0809ea0c8a

======================================================

**Transferring a regular wallet** ✓
**Tx (0-12%):**

https://testnet.bscscan.com/tx/0xf4061e309bc40793d4d63598a412b2bc555485649009b83e408efc29fcbb6446

======================================================

**Internal swap (marketing bnb + auto-liquidity)** ✓
**Tx:**

https://testnet.bscscan.com/tx/0x752c0a72020c4430def9dc63c8f51009e44e01f099951b7764533a0809ea0c8a

======================================================

# FUNCTION DETAILS

```
| Contract  |     Type       |     Bases     |           |           |
|:---------:|:--------------:|:-------------:|:---------------:|:---------------:|
|    L      | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
|||||
| **DexFactory** | Interface |  |||
|  L | createPair | External  ❗ | | 🔴 |NO ❗ |
|||||
| **DexRouter** | Interface |  |||
|  L | factory | External  ❗ | | |NO ❗ |
|  L | WETH | External  ❗ | | |NO ❗ |
|  L | addLiquidityETH | External  ❗ | | 💶 |NO ❗ |
|  L | swapExactTokensForETHSupportingFeeOnTransferTokens | External  ❗ | | 🔴 |NO ❗ |
|||||
| **Kinu** | Implementation | ERC20, Ownable |||
|  L | <Constructor> | Public  ❗ | | 🔴 | ERC20 |
|  L | startTrading | External  ❗ | | 🔴 | onlyOwner |
|  L | setMarketing | External  ❗ | | 🔴 | onlyOwner |
|  L | setBuyTaxes | External  ❗ | | 🔴 | onlyOwner |
|  L | setSellTaxes | External  ❗ | | 🔴 | onlyOwner |
|  L | setTransferTaxes | External  ❗ | | 🔴 | onlyOwner |
|  L | setSwapTokensAtAmount | External  ❗ | | 🔴 | onlyOwner |
|  L | toggleSwapping | External  ❗ | | 🔴 | onlyOwner |
|  L | setWhitelist | External  ❗ | | 🔴 | onlyOwner |
|  L | checkWhitelist | External  ❗ | | |NO ❗ |
|  L | _takeTax | Internal 🔒 | | 🔴 ||
|  L | _transfer | Internal 🔒 | | 🔴 ||
|  L | manageTaxes | Internal 🔒 | | 🔴 ||
|  L | swapAndLiquify | Internal 🔒 | | 🔴 ||
|  L | swapToETH | Internal 🔒 | | 🔴 ||
|  L | addLiquidity | Private 🔒 | | 🔴 ||
|  L | withdrawStuckETH | External  ❗ | | 🔴 | onlyOwner |
|  L | withdrawStuckTokens | External  ❗ | | 🔴 | onlyOwner |
|  L | <Receive Ether> | External  ❗ | | 💶 |NO ❗ |

| Symbol | Meaning |
```

# FUNCTION DETAILS

```
|:--------:|-----------|
|    🔴    | Function can modify state |
|    💵    | Function is payable |
```

# 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** | | | |

# FINDINGS

| Findings | Severity | Found |
|---|---|---|
| High Risk | 🔴 High | 0 |
| Medium Risk | 🟠 Medium | 1 |
| Low Risk | 🟡 Low | 0 |
| Suggestion & discussion | 🔵 Informational | 0 |
| Gas Optimizations | 🟣 Gas Opt. | 0 |

# LOW RISK FINDING

**Category:** Centralization
**Subject:** Enabling trades is not guaranteed
**Status:** Resolved ( contract is owned by audit firm )
**Severity:** Medium

**Overview:**
Owner must enable trades for investors manually. If trades remain disabled, holders wont be able to trade their tokens.

```
  function startTrading() external onlyOwner {
require(!tradingStatus, "Trading has already started!");
    tradingStatus = true;
  }
```

**Suggestion:**
to mitigate this issue there are several options:
- Enable trades before end of presale
- Transfer ownership to a trusted 3rd party to guarantee enable of trades (applied)

# 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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