expelee

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

THE BOYS

TOKEN OVERVIEW

Risk Findings

Severity	Found
🔴 High	0
🟠 Medium	0
🟡 Low	0
🔵 Informational	0

Centralization Risks

Owner Privileges	Description
🟢 Can Owner Set Taxes >25% ?	Not Detected
🟢 Owner needs to enable trading ?	Not 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 Transfer amount ?	Not Detected

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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	**5 July 2023**

CONTRACT DETAILS

Token Name: THE BOYS

Symbol: BOYS

Network: Ethereum

Language: Solidity

Contract Address:
0xDa93BC1C70400B3Ae8791dAf27Ec9b67f4C6e845

Total Supply:7,777,777,777,777

Owner's Wallet:
 0x0000000000000000000000000000000000000000

Deployer's Wallet:
 0xDa93BC1C70400B3Ae8791dAf27Ec9b67f4C6e845

Testnet :
https://testnet.bscscan.com/token/0x0aBAC20cB38B93D30
77096c1340607866B21eBf6

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.
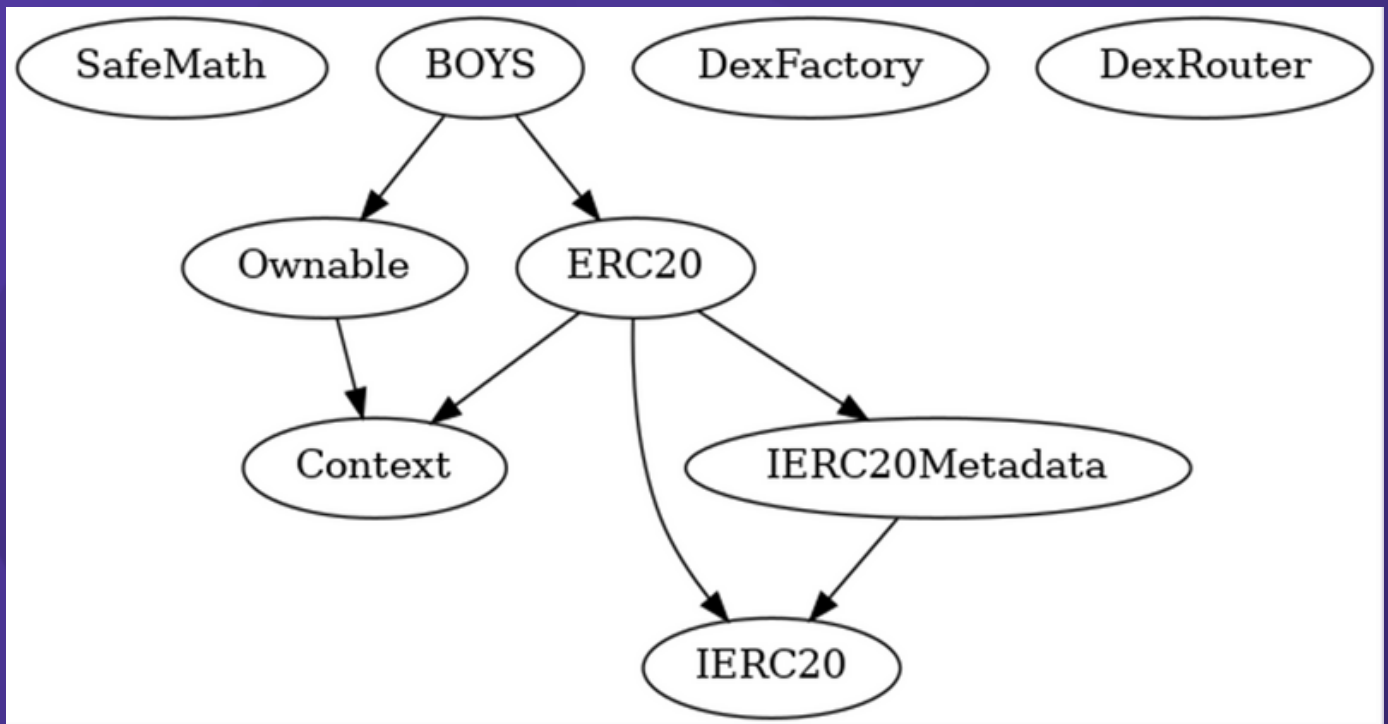
Low Risk

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

FUNCTION DETAILS

Contract	Type	Bases		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
SafeMath	Library			
└	tryAdd	Internal 🔒		
└	trySub	Internal 🔒		
└	tryMul	Internal 🔒		
└	tryDiv	Internal 🔒		
└	tryMod	Internal 🔒		
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
└	sub	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🔴	NO ❗
└	owner	Public ❗		NO ❗
└	_checkOwner	Internal 🔒		
└	renounceOwnership	Public ❗	🔴	onlyOwner
└	transferOwnership	Public ❗	🔴	onlyOwner
└	_transferOwnership	Internal 🔒	🔴	
IERC20	Interface			
└	totalSupply	External ❗	NO ❗	
└	balanceOf	External ❗	NO ❗	
└	transfer	External ❗	🔴	NO ❗
└	allowance	External ❗	NO ❗	
└	approve	External ❗	🔴	NO ❗
└	transferFrom	External ❗	🔴	NO ❗
IERC20Metadata	Interface	IERC20		
└	name	External ❗	NO ❗	
└	symbol	External ❗	NO ❗	
└	decimals	External ❗	NO ❗	
ERC20	Implementation	Context, IERC20, IERC20Metadata		
└	<Constructor>	Public ❗	🔴	NO ❗
└	name	Public ❗	NO ❗	

FUNCTION DETAILS

```
| └ | symbol | Public ❗ | | |NO❗ |
| └ | decimals | Public ❗ | | |NO❗ |
| └ | totalSupply | Public ❗ | | |NO❗ |
| └ | balanceOf | Public ❗ | | |NO❗ |
| └ | transfer | Public ❗ | 🔴 |NO❗ |
| └ | allowance | Public ❗ | | |NO❗ |
| └ | approve | Public ❗ | 🔴 |NO❗ |
| └ | transferFrom | Public ❗ | 🔴 |NO❗ |
| └ | increaseAllowance | Public ❗ | 🔴 |NO❗ |
| └ | decreaseAllowance | Public ❗ | 🔴 |NO❗ |
| └ | _transfer | Internal 🔒 | 🔴 ||
| └ | _mint | Internal 🔒 | 🔴 ||
| └ | _burn | Internal 🔒 | 🔴 ||
| └ | _approve | Internal 🔒 | 🔴 ||
| └ | _spendAllowance | Internal 🔒 | 🔴 ||
| └ | _beforeTokenTransfer | Internal 🔒 | 🔴 ||
| └ | _afterTokenTransfer | Internal 🔒 | 🔴 ||
||||||
| **DexFactory** | Interface | |||
| └ | createPair | External ❗ | 🔴 |NO❗ |
||||||
| **DexRouter** | Interface | |||
| └ | factory | External ❗ | | |NO❗ |
| └ | WETH | External ❗ | | |NO❗ |
| └ | addLiquidityETH | External ❗ | 💵 |NO❗ |
| └ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ❗ | 🔴 |NO❗ |
||||||
| **BOYS** | Implementation | ERC20, Ownable |||
| └ | <Constructor> | Public ❗ | 🔴 | ERC20 |
| └ | _transfer | Internal 🔒 | 🔴 ||
```

Legend

Symbol	Meaning
🔴	Function can modify state
💵	Function is payable

TESTNET VERSION

Adding Liquidity ✅
Tx:
https://testnet.bscscan.com/tx/0x16dc0aadf4d3ca6651c2c8ecb1dab1c2390d52ba51f04d8e1f639db2d67d905f

==

Buying ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x16e77347584825a686b5f27e2aa30bc8e8327789883756eeec12b87d1939a543

==

Selling ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0xdfe8533e0d92f344ffcbcec93e5db6e0d61a9e116879935a759c6cbc7c1ca858

==

Transferring ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x5c6aca9794cf4f65cc6de4807ae088c0b5fd479baca44a45210dbde327bcb7ba

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		

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

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