expelee

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

MARGESIMPSON

expelee

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 TX 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	**7 June 2023**

CONTRACT DETAILS

Token Name: MargeSimpson

Symbol: Marge

Network: Binance smart chain

Language: Solidity

Decimals: 18

Token Type: BEP20

Checksum:
940027aab626d6ebcd2e991568e0f2131dc0b68d

Contract Address:
0xcf6C994B7Dc1271E7eC5c7D6C68eA696eAAcb5b9

Total Supply: 4,200,000,000,000,000

Owner's Wallet: 0x0000000000000000000000000000000000000000

Deployer's Wallet: 0xc0f4dE3Bd7768c09b74c5907E44c74ecc4CFe756

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.
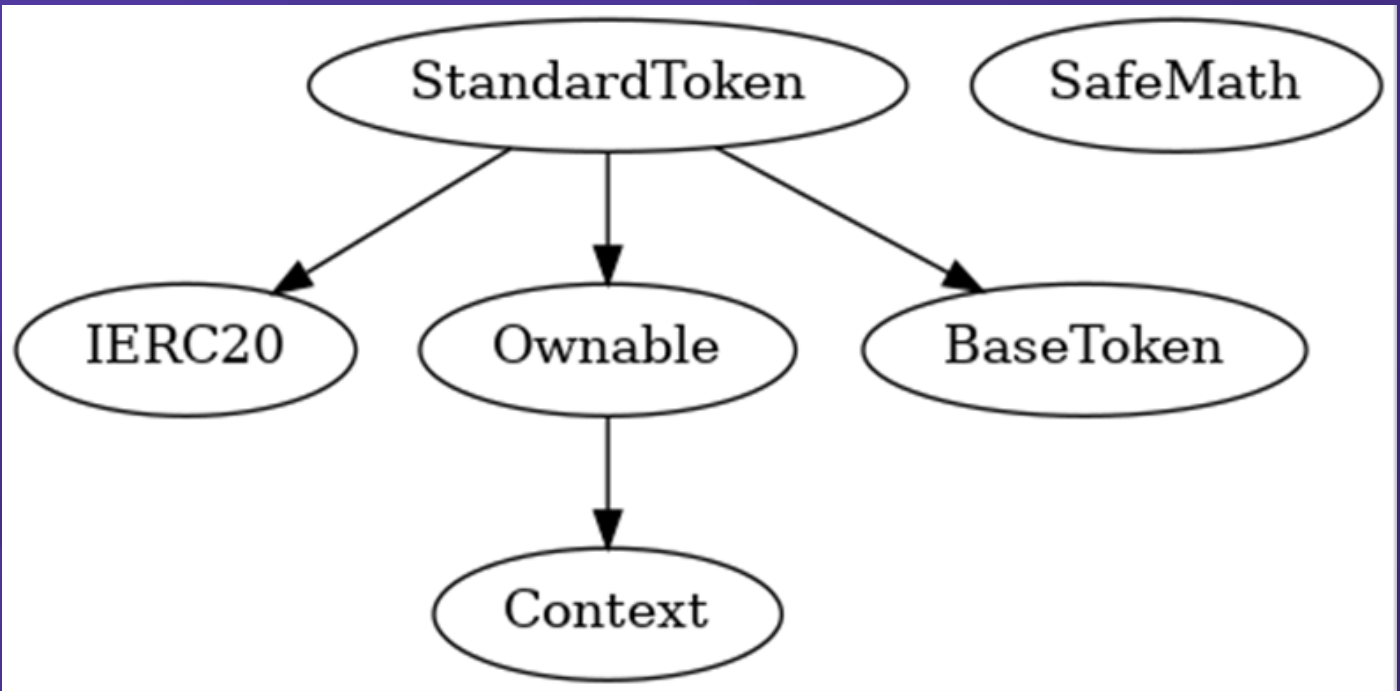
Low Risk

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**  |
||||||
| **IERC20** | Interface |  |||
|  └ | totalSupply | External ❗ |  |NO❗ |
|  └ | balanceOf | External ❗ |  |NO❗ |
|  └ | transfer | External ❗ |  🔴  |NO❗ |
|  └ | allowance | External ❗ |  |NO❗ |
|  └ | approve | External ❗ |  🔴  |NO❗ |
|  └ | transferFrom | External ❗ |  🔴  |NO❗ |
||||||
| **Context** | Implementation |  |||
|  └ | _msgSender | Internal 🔐 |  ||
|  └ | _msgData | Internal 🔐 |  ||
||||||
| **Ownable** | Implementation | Context |||
|  └ | <Constructor> | Public ❗ |  🔴  |NO❗ |
|  └ | owner | Public ❗ |  |NO❗ |
|  └ | renounceOwnership | Public ❗ |  🔴  | onlyOwner |
|  └ | transferOwnership | Public ❗ |  🔴  | onlyOwner |
|  └ | _setOwner | Private 🔐 |  🔴  ||
||||||
| **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 🔐 |  ||
||||||
| **BaseToken** | Implementation |  |||
||||||
| **StandardToken** | Implementation | IERC20, Ownable, BaseToken |||
|  └ | <Constructor> | Public ❗ |  🟩  |NO❗ |
|  └ | name | Public ❗ |  |NO❗ |
|  └ | symbol | Public ❗ |  |NO❗ |
|  └ | decimals | Public ❗ |  |NO❗ |
|  └ | totalSupply | Public ❗ |  |NO❗ |
|  └ | balanceOf | Public ❗ |  |NO❗ |
```

FUNCTION DETAILS

```
| └ | 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 🔒 | | 🔴 ||
| └ | _setupDecimals | Internal 🔒 | | 🔴 ||
| └ | _beforeTokenTransfer | Internal 🔒 | | 🔴 ||
```

Legend

Symbol	Meaning
🔴	Function can modify state
💵	Function is payable

TESTNET VERSION

Adding Liquidity ✅
Tx:
https://testnet.bscscan.com/tx/0x6d39dae456618017ea1a317c2ecd081ddb72f9006ce51fb308c116ccb53572eb

==

Buying ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0xf1f2849f387c08c84ad8e4b51928035ad801f4450546a57045d09323dc6f4fab

==

Selling ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x075e38a009fefcb11c4d96ecacc9538d43c92bbfdee2ba6067deea2733a40bb1

==

Transferring ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x98383f8370df80fe34be2737e3f0e94c84ff78773d67277d8f9948bb3c99df3a

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.

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