



Building the Futuristic **Blockchain Ecosystem**

SECURITY AUDIT REPORT

Token Token

TOKEN OVERVIEW

Risk Findings

Severity	Found
● High	2
● Medium	0
● Low	0
● Informational	0

Centralization Risks

Owner Privileges	Description
● Can Owner Set Taxes >25% ?	Not Detected
● Owner needs to enable trading ?	Yes, owner needs to enable trades
● 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 ?	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	Inheritance Trees	
10	Function Details	
11	Testnet Version	
13	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
KYC Verification	-
Audit Date	25 June 2023

CONTRACT DETAILS

Token Name: Toker Token

Symbol: THC

Network: Binance Smart Chain

Language: Solidity

Contract Address:

--

Total Supply: 840,000,000,000,000

Owner's Wallet: --

Deployer's Wallet: --

Testnet.

<https://testnet.bscscan.com/address/0x776394ebfd85A61e18F627f4aFB65b53cf5816e1>

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 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.

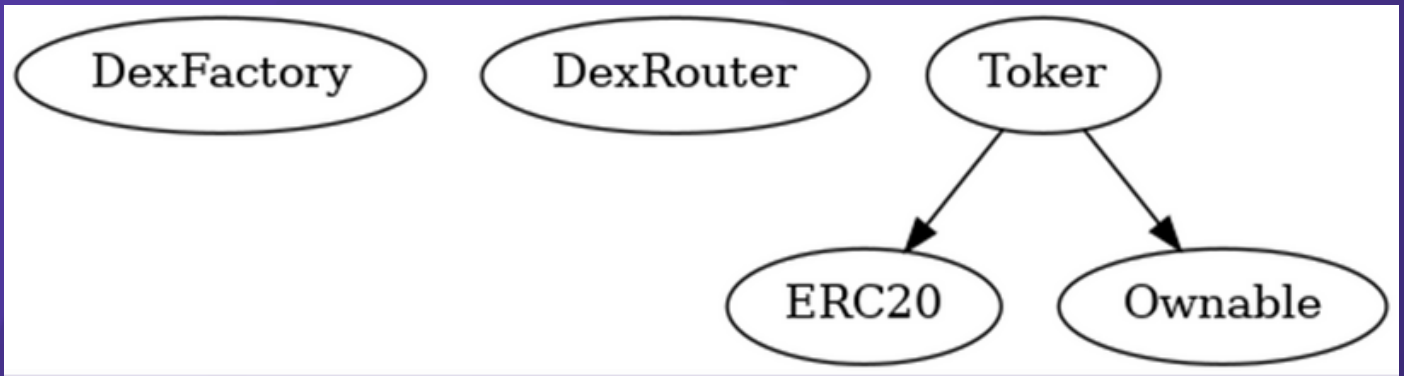
Low Risk

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

Informational

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

INHERITANCE TREES



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 !]
Toker Implementation ERC20, Ownable					
L	<Constructor>	Public	!	●	ERC20
L	enableTrading	External	!	●	onlyOwner
L	setBuyTaxes	External	!	●	onlyOwner
L	setSellTaxes	External	!	●	onlyOwner
L	setTransferFees	External	!	●	onlyOwner
L	setSwapTokensAtAmount	External	!	●	onlyOwner
L	toggleSwapping	External	!	●	onlyOwner
L	setWhitelistStatus	External	!	●	onlyOwner
L	checkWhitelist	External	!		[NO !]
L	_takeTax	Internal	🔒	●	
L	_transfer	Internal	🔒	●	
L	swapToETH	Internal	🔒	●	
L	withdrawStuckETH	External	!	●	onlyOwner
L	withdrawStuckTokens	External	!	●	onlyOwner
L	<Receive Ether>	External	!	💰	[NO !]

Legend

Symbol	Meaning
:-----: -----:	
●	Function can modify state
💰	Function is payable

TESTNET VERSION

Adding Liquidity 

Tx:

<https://testnet.bscscan.com/tx/0xf5b2f50e4ef9547c7af8cb44c26ea101161b38e306b79e8dbd79d40ea4adf23d>

=====

Buying when excluded from fees 

Tx (0% tax):

<https://testnet.bscscan.com/tx/0x98aefa1f19164e4558532fbc8da5386d55be8c5208e6ae0a78c17f93314eed63>

=====

Selling when excluded from fees 

Tx (0% tax):

<https://testnet.bscscan.com/tx/0xfe9886c27f9e34228d10ae783c7a4a2a0d3db0646e0a0ee0d341b08a0c788a2f>

=====

Transferring when excluded from fees 

Tx (0% tax):

<https://testnet.bscscan.com/tx/0x9907f252a1e3588a9ea698c02d56c1a23073bf9186df31875967c66408beb3b3>

=====

Buying 

Tx (0-5% tax):

<https://testnet.bscscan.com/tx/0xf864c749f2639c5ade6ad06e4cdce018bbb1712728b0d6f80418ab7c1302ef6e>

TESTNET VERSION

Selling 

Tx (0-5% tax):

<https://testnet.bscscan.com/tx/0x45b0f5067b96df74ce765f7a94a76271386680e7a002eaa760445414d89ce6fb>

Transferring

Tx (0-100% tax):

<https://testnet.bscscan.com/tx/0x69d4bd69b91667cf449b07d5753c4b1450b2059c67ad4e91d51e71f0df8def07>

Burning (fee are sent to dead wallet) ✓

Tx:

[https://testnet.bscscan.com/token/0x776394ebfd85a61e18f627f4afb65b53cf5816e1?
a=0x000000000000000000000000000000000000dead](https://testnet.bscscan.com/token/0x776394ebfd85a61e18f627f4afb65b53cf5816e1?a=0x000000000000000000000000000000000000dead)

MANUAL REVIEW

Severity Criteria

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

Vulnerabilities are divided into three primary risk categories:

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

Trades must be enabled manually

Category: **Centralization**

Status: Open

Severity: **High**

Overview:

Owner of the contract must call `startTrading` function in order for holders to be able to transfer/sell their tokens. If Owner refuse to enable trades for any reason, holders wont be able to transfer/sell their tokens and their assets will be locked in liquidity pool forever.

```
function enableTrading() external onlyOwner {  
  require(!tradingEnabled, "Trading is already enabled");  
  tradingEnabled = true;  
  startTradingBlock = block.number;  
}
```

HIGH RISK FINDING

Trades must be enabled manually

Suggestion:

To resolve this issue you can:

- **Enable trades prior to presale: this ensures investors about safety of their assets**
- **Transfer ownership of the contract to pinksale: this ensures that trades will be enabled eventually at right time**
- **Create a time lock feature: this ensures that trades will be enabled automatically after a fixed amount of time.**

HIGH RISK FINDING

Excessive Transfer fees

Category: **Configurations**

Status: Open

Severity: **High**

Overview:

Owner is able to set up to 100% tax on transfers.

```
function setTransferFees(uint256 _transferTaxes)
external onlyOwner {
    transferTaxes = _transferTaxes;
    require(_transferTaxes <= 10000, "Can not set transfer tax
higher than 1%");
    emit TransferFeesUpdated(_transferTaxes);
}
```

Suggestion:

According to error message, _transferTaxes should be less than 100 (considering 10,000 as denominator)

```
function setTransferFees(uint256 _transferTaxes)
external onlyOwner {
    transferTaxes = _transferTaxes;
    require(_transferTaxes <= 100, "Can not set transfer tax
higher than 1%");
    emit TransferFeesUpdated(_transferTaxes);
}
```


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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expelee

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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.

The logo for Expelee, featuring the word "expelee" in a stylized font. The "ex" is in white, and "pelee" is in orange. The letters are bold and modern.

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