

# KISHIELD

Security Audit

**BountyBit Token**

April 29, 2022





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# Audit Summary

This report has been prepared for BountyBit Token on the Binance Chain network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.

# Project Overview

## Token Summary

Parameter	Result
Address	0x3Ff6319257e738198462d7eefb53673A46C3529F
Name	BountyBit
Token Tracker	BountyBit (BTB)
Decimals	18
Supply	100,000,000
Platform	Binance Chain
compiler	v0.8.4+commit.c7e474f2
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/address/0x3Ff6319257e738198462d7eefb53673A46C3529F">https://bscscan.com/ address/0x3Ff6319257e738198462d7eefb53673A46C3529F</a>
Url	<a href="https://bountybattles.com/">https://bountybattles.com/</a>

## Main Contract Assessed

Name	Contract	Live
BountyBit	0x3Ff6319257e738198462d7eefb53673A46C3529F	Yes

# Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	✓ Low / No Risk
Code With No Effects	Complete	Complete	✓ Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	✓ Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	✓ Low / No Risk
Unexpected Ether balance	Complete	Complete	✓ Low / No Risk
Presence of unused variables	Complete	Complete	✓ Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	✓ Low / No Risk
Typographical Error	Complete	Complete	✓ Low / No Risk
DoS With Block Gas Limit	Complete	Complete	✓ Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	✓ Low / No Risk
Insufficient Gas Griefing	Complete	Complete	✓ Low / No Risk
Incorrect Inheritance Order	Complete	Complete	✓ Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	✓ Low / No Risk
Requirement Violation	Complete	Complete	✓ Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	✓ Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	✓ Low / No Risk

Vulnerability	Automatic Scan	Manual Scan	Result
Authorization through tx.origin	Complete	Complete	✓ Low / No Risk
Delegatecall to Untrusted Callee	Complete	Complete	✓ Low / No Risk
Use of Deprecated Solidity Functions	Complete	Complete	✓ Low / No Risk
Assert Violation	Complete	Complete	✓ Low / No Risk
Reentrancy	Complete	Complete	✓ Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	✓ Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	✓ Low / No Risk
Unchecked Call Return Value	Complete	Complete	✓ Low / No Risk
Outdated Compiler Version	Complete	Complete	✓ Low / No Risk
Integer Overflow and Underflow	Complete	Complete	✓ Low / No Risk
Function Default Visibility	Complete	Complete	✓ Low / No Risk

## Contract Ownership

The contract does not have an owner.

Having no owner means that all the ownable functions in the contract can not be called by anyone, this often leads to more trust on the project.



## Important Notes To The Users:

- The contract is the battle proven ERC-20 standard created and audited by OpenZeppelin.
- There are no fees for buy/sell/transfer of tokens.
- The owner cannot mint tokens after intial deployment.
- The owner cannot stop Trading.
- The owner cannot change the min tx amount.
- The owner has no control over the contract.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

## Audit Passed



# Findings Summary

## Classification of Issues

Severity	Description
● High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency
● Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
● Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
● Info	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

## Findings

Severity	Found
● High	0
● Medium	0
● Low	0
● Info	1
Total	1



# Findings

## Too many digits

ID	Severity	Contract	Function
01	● Informational	BountyBit	constructor()

### Description

Literals with many digits are difficult to read and review.

### Recommendation

Make use of scientific notation, use underscores, and/or use ether suffix.



# Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
none	---	---

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# Statistics

## Liquidity Info

Parameter	Result
Pair Address	---
BTB Reserves	0.00 BTB
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

## Token (BTB) Holders Info

Parameter	Result
BTB Percentage Burnt	0.00%
BTB Amount Burnt	0 BTB
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	100,000,000 BTB
Top 10 Aprox Value	\$NaN USD

## LP (BTB/BNB) Holders Info

Parameter	Result
BTB/BNB % Burnt	0.00%
BTB/BNB Amount Burnt	0 BTB
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 BTB
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 BTB

\* All the data displayed above was taken on-chain at block 17369437

\* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

## Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 17369437

# KISHIELD



## Disclaimer

KISHIELD has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocacy for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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