

KISHIELD

Security Audit

CryptoArk Token

May 18, 2022





Table of Contents

- 1 Audit Summary**
- 2 Project Overview**
 - 2.1 Token Summary
 - 2.2 Main Contract Assessed
- 3 Smart Contract Vulnerability Checks**
- 4 Contract Ownership**
 - 4.1 Privileged Functions
- 5 Important Notes To The Users**
- 6 Findings Summary**
 - 6.1 Classification of Issues
 - 6.1 Findings Table
- 7 Statistics**
 - 7.1 Liquidity
 - 7.2 Token Holders
 - 7.3 Liquidity Holders
- 8 Liquidity Ownership**
- 9 Disclaimer**



Audit Summary

This report has been prepared for CryptoArk 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	0x4a46ad43ff29bd77eb4788d4ec47e9f2d4a86832
Name	CryptoArk
Token Tracker	CryptoArk (TICKET)
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	https://bscscan.com/ address/0x4a46ad43ff29bd77eb4788d4ec47e9f2d4a86832
Url	https://theCryptoArk.org

Main Contract Assessed

Name	Contract	Live
CryptoArk	0x4a46ad43ff29bd77eb4788d4ec47e9f2d4a86832	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 ownership of CryptoArk is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0x2e916b6d9aaDCCC6Fd98B1B6060f1a5a0151205A which can be viewed from:
[HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

Important Notes To The Users:

- The owner cannot mint tokens after initial deployment.
- The owner cannot stop Trading.
- The owner cannot change the fees amount.
- The owner cannot change the max tx amount.
- There is a max wallet limit of 1,000,000 tokens, this cannot be changed.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can add/remove addresses from fees and rewards.
- The owner can change the swapBack settings including enable/disable the swapback and setting the swapThreshold.
- The owner can change the rewards distributor criteria including the minPeriod, minDistribution and distributorGas.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

Audit Passed



Technical 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	0
Total	0

Findings

No Findings for CryptoArk

Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	external
transferOwnership	address newOwner	external
setIsDividendExempt	address holder, bool exempt	external
setIsFeeExempt	address holder, bool exempt	external
setFeeReceivers	address _autoLiquidityReceiver, address _marketingFeeReceiver	external
setSwapBackSettings	bool _enabled, uint256 _amount	external
setDistributionCriteria	uint256 _minPeriod, uint256 _minDistribution	external
setDistributorSettings	uint256 gas	external

Statistics

Liquidity Info

Parameter	Result
Pair Address	0xB9D081678E2f5dBe6428CD1A37e905E5A609b3cb
TICKET Reserves	7901891.14 TICKET
BNB Reserves	13.15 BNB
Liquidity Value	\$3,872.675 USD

Token (TICKET) Holders Info

Parameter	Result
TICKET Percentage Burnt	0.00%
TICKET Amount Burnt	0 TICKET
Top 10 Percentage Own	25.89%
Top 10 Amount Owned	25,892,741.936 TICKET
Top 10 Aprox Value	\$12,689.896 USD

LP (TICKET/BNB) Holders Info

Parameter	Result
TICKET/BNB % Burnt	0.00%
TICKET/BNB Amount Burnt	0 TICKET
Top 10 Percentage Owned	100.00%
Top 10 Amount Owned	10,084.393 TICKET
Locked Tokens Percentage	94.09%
Locked Tokens Amount	9,488.254 TICKET

* All the data displayed above was taken on-chain at block 17911552

* 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 17911552

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.

All information provided in this report does not constitute financial or investment advice, nor should it be used to signal that any persons reading this report should invest their funds without sufficient individual due diligence regardless of the findings presented in this report. Information is provided 'as is', and KISHIELD is under no covenant to the completeness, accuracy or solidity of the contracts audited. In no event will KISHIELD or its partners, employees, agents or parties related to the provision of this audit report be liable to any parties for, or lack thereof, decisions and/or actions with regards to the information provided in this audit report.

The assessment services provided by KISHIELD is subject to dependencies and under continuing development. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives, false negatives, and other unpredictable results. The services may access, and depend upon, multiple layers of third-parties.