

CHEGNINJA AUDITS



Security Assessment

Crypto IRA Token

March 9, 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

5 Liquidity Ownership

6 Important Notes To The Users

7 Disclaimer

Audit Summary

This report has been prepared for Crypto IRA Token on the Binance Smart Chain network. CFGNINJA 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:

- 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.

Project Overview

Token Summary

Parameter	Result
Address	0xdd25e1955fd9f7b3abe83cc419070a7ace104dce
Name	Crypto IRA
Token Tracker	Crypto IRA (CIRA)
Decimals	5
Supply	10,000,000
Platform	Binance Smart Chain
compiler	v0.8.12+commit.f00d7308
Optimization	Yes with 200 runs
LicenseType	Unlicense
Language	Solidity
Codebase	https://bscscan.com/ token/0xdd25e1955fd9f7b3abe83cc419070a7ace104dce
Url	https://cryptoira.finance/

Main Contract Assessed

Name	Contract	Live
Crypto IRA	0xdd25e1955fd9f7b3abe83cc419070a7ace104dce	Yes

TestNet Contract Assessed

Name	Contract	Live
Crypto IRA	0xF0d872671284E7ffeA3cb7aF1BE42Dc05e57f47b	Yes

Solidity Code Provided

SolID	FileNameMD5	FileName
CIR101	74810a12d7a5d520236a2863f4abb5aa	cryptoirav2.sol



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

Vulnerability	Automatic Scan	Manual Scan	Result
Weak Sources of Randomness from Chain Attributes	Complete	Complete	Low / No Risk

Mint Check

The Project Owners of Crypto IRA does not have a mint function in the contract, owner cannot mint tokens after initial deploy

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The Project has a Total Supply of 10,000,000 and cannot mint any more than the Max Supply.

Fees Check

The Project Owners of Crypto IRA does not have the ability to set fees higher than 25% .

Team May have fees defined, however they dont have the ability to set those fees higher than 25%.

MaxTx Check

The Project Owners of Crypto IRA does not have the ability to set max tx amount

The Team allows any investors to swap, transfer or sell their total amount if needed.



Pause Trade Check

The Project Owners of Crypto IRA Owner can pause trading but he can't move tokens
(Owner can't pause trading)

The Team has done a great job to avoid stop trading, and investors has the ability to trade at any given time without any problems



Contract Ownership

The contract ownership of Crypto IRA 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 0xAe50A9404e79160c51e7266021B644B906972B3F 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.

Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 17254423



KYC Information

The Project Owners of Crypto IRA has provided KYC Documentation.

KYC Certificated can be found on the Following:

[KYC Data](#)



Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
setMaxWalletPercent_base1000	uint256 maxWallPercent_base1000	external
manualBurn	uint256 burnAmount	external
set_sell_multiplier	uint256 Multiplier	external
setNumTokensSellToAddToLiquidity	uint256 numTokens	external
lock	uint256 time	external
tradingStatus	bool _status	external
cooldownEnabled	bool _status, uint8 _interval	external
manage_blacklist	address[] calldata addresses, bool status	external
enable_blacklist	bool _status	external

Important Notes To The Users:

- The team has provided a KYC Link during the time of assessment and can be found in the Audit.
- No mint function found, owner cannot mint tokens after initial deploy
- Owner can change fees up to 25%
- Owner can't set max tx amount
- Owner can't pause trading
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.
- Teams has show commitment to their project and is looking forward the features.

Audit Passed



Disclaimer

CFGNINJA 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 depreciation of technologies.

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