

# HEGUNINJA AUDITS



Security Assessment

Auto Defi Token

April 5, 2022

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# Audit Summary

This report has been prepared for Auto Defi 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	0x056442dCa9756D4fDOC91B0E8Dfd56c30e64105f
Name	Auto Defi
Token Tracker	Auto Defi (AUTOFI)
Decimals	5
Supply	500,000
Platform	Binance Smart Chain
compiler	v0.8.13+commit.abaa5c0e
Contract Name	AUTOFI
Optimization	Yes with 200 runs
LicenseType	Unlicense
Language	Solidity
Codebase	<a href="https://bscscan.com/token/0x056442dCa9756D4fDOC91B0E8Dfd56c30e64105f">https://bscscan.com/ token/0x056442dCa9756D4fDOC91B0E8Dfd56c30e64105f</a>
Url	<a href="https://www.autodefi.finance">https://www.autodefi.finance</a>

## Main Contract Assessed

### Contract Name

Name	Contract	Live
Auto Defi	0x056442dCa9756D4fD0C91B0E8Dfd56c30e64105f	Yes

## TestNet Contract Assessed

### Contract Name

Name	Contract	Live
Auto Defi	0xe39Bde805A5e1EC80E0db528dFe30F76962Ff983	Yes

## Solidity Code Provided

SolID	FileNameMD5	FileName
AUTOFI	CED719757D56901338D17AE413A53A06	AutoDefi2.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 Auto Defi 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 500,000 and cannot mint any more than the Max Supply.



**Owner can't mint new coins**



# Fees Check

The Project Owners of Auto Defi 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%.

 Fees can be changed up to a maximum of 25%



# MaxTx Check

The Project Onwers of Auto Defi does not has the ability to set max tx amount

The Team allow any investors to swap, transfer or sale their total amount if needed.

**Project Has No MaxTX**



# Pause Trade Check

The Project Owners of Auto Defi 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

**Pause Trade Notes:**

**Auditor Notes:** This is a Rebase Token, no pause can be made.

**Project Owner Notes:** Project Owners Ack



# Contract Ownership

The contract ownership of Auto Defi 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 0xb51552b08694858db147d426945d6446b13492c1 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.

We recommend the team to use a Multisignature Wallet if contract is not going to be renounced, this will give the ability to the team to have more control over the contract.

# Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 16523450



# KYC Information

The Project Owners of Auto Defi is not KYC..

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.

## KYC Information Notes:

**Auditor Notes:** Auditor asked project owner if ther was any plans to KYC.

**Project Owner Notes:** They plan to KYC with Pinksale and maybe 1 more partner



# Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
setEnableAntiBot	(bool _enable)	external
excludeFromFee	address account	public
includeInFee	address account	public
withdrawAllToTreasury		external
setAutoRebase	bool _flag	external
setAutoAddLiquidity	bool _flag	external
setFeeReceivers	address _autoLiquidityReceiver address _treasuryReceiver address _AUTOFIIInsuranceFundReceiver address _firePit uint256 liquidityFee	external
setWhitelist	address _addr	external
setBotBlacklist	address _botAddress, bool _flag	external
setPairAddress	address _pairAddress	public
setLP	address _address	external

## Important Notes To The Users:

- The team has not 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.
- Smart contract uses Rebase. With Rebase, the circulating token supply adjusts (increases or decreases) automatically or manually according to defined parameters in the contract.
- Owner can't 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.
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## Audit Passed



# Social Media Checks

Social Media	URL	Result
Twitter	<a href="https://twitter.com/AutoDefi_Token">https://twitter.com/AutoDefi_Token</a>	Pass
Instagram	<a href="https://www.instagram.com/auto_defi/">https://www.instagram.com/auto_defi/</a>	Pass
Website	<a href="https://www.autodefi.finance">https://www.autodefi.finance</a>	Pass
Telegram	<a href="https://t.me/AutoDefi">https://t.me/AutoDefi</a>	Pass

We recommend to have 3 or more social media sources including a completed working websites.

**Social Media Information Notes:**

**Auditor Notes:** undefined

**Project Owner Notes:**



# 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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