

# CHENINJA AUDITS



Security Assessment

**Shiba Burn Tribe Token**

October 29, 2022



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# Audit Summary

This report has been prepared for Shiba Burn Tribe 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       | 0xB05b0e936639Bd80655CB57f4F0a035d1E335Ef2  |
| Name          | Shiba Burn Tribe  |
| Token Tracker | Shiba Burn Tribe (SBT)  |
| Decimals      | 9   |
| Supply        | 10,000,000,000  |
| Platform      | Binance Smart Chain   |
| compiler      | v0.8.6+commit.11564f7e  |
| Contract Name | ShibaBurnTribe  |
| Optimization  | Yes with 200 runs   |
| LicenseType   | MIT   |
| Language      | Solidity  |
| Codebase      | <a href="https://bscscan.com/address/0xB05b0e936639Bd80655CB57f4F0a035d1E335Ef2#code">https://bscscan.com/address/0xB05b0e936639Bd80655CB57f4F0a035d1E335Ef2#code</a> |
| Payment Tx    | 0x09c8ea803a48ef12bf267c6a751faff9c9441d0af3648a3e0567b46e19d258d2  |



# Project Overview

## Risk Analysis Summary

| Parameter        | Result |
|------------------|--------|
| Buy Tax          | 10%    |
| Sale Tax         | 10%    |
| Is honeypot?     | Clean  |
| Can edit tax?    | No     |
| Is anti whale?   | No     |
| Is blacklisted?  | No     |
| Is whitelisted?  | Yes    |
| Holders          | Clean  |
| Security Score   | 90/100 |
| Auditor Score    | 90/100 |
| Confidence Level | Pass   |

The following quick summary has been added to the project overview, however there are more details about the audit and their results please read every details.



## Main Contract Assessed Contract Name

| Name             | Contract                                   | Live |
|------------------|--|------|
| Shiba Burn Tribe | 0xB05b0e936639Bd80655CB57f4F0a035d1E335Ef2 | Yes  |

## TestNet Contract Assessed Contract Name

| Name             | Contract                                   | Live |
|------------------|--|------|
| Shiba Burn Tribe | 0xb014DD4Ae99F00A1fAE64F16b6681F6C137945be | Yes  |

## Solidity Code Provided

| SolID              | File Sha-1                               | FileName           |
|--------------------|--|--------------------|
| ShibaBurnTribe.sol | 94122106f6f390eafbc515b96b9c4765c8184ab3 | ShibaBurnTribe.sol |



# Mint Check

**The Project Owners of Shiba Burn Tribe does not have a mint function in the contract, owner cannot mint tokens after initial deploy**

..

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

.

Mint Notes:

Auditor Notes: No Mint Function was found during the code review

Project Owner Notes:



Owner can't mint new coins





# Fees Check

**The Project Owners of Shiba Burn Tribe 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%.**

Tax Fee Notes:

Auditor Notes: Contract currently have 0% tax and cannot be modified

Project Owner Notes: .



Fees can be changed up to a maximum of 25%





# Blacklist Check

**The Project Owners of Shiba Burn Tribe does not have a blacklist function their contract.**

**The Project allow owners to transfer their tokens without any restrictions.**

**Token owner cannot blacklist the contract: Malicious or compromised owners can trap contracts relying on tokens with a blacklist.**

Blacklist Notes:

Auditor Notes:

Project Owner Notes: .



# MaxTx Check

**The Project Onwers of Shiba Burn Tribe 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.**

MaxTX Notes:

Auditor Notes: '

Project Owner Notes:

Project Has No MaxTX



# Pause Trade Check

**The Project Owners of Shiba Burn Tribe don't have the ability to stop or 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: Not found a value to stop, however there is a start trade.

Project Owner Notes:



Owner can't pause trading



# Contract Ownership

The contract ownership of Shiba Burn Tribe 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  
0xdd8187f7e0ca0b8826afb45134dbf3ed09436e53  
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 22232859

If liquidity is unlocked, then the token developers can do what is infamously known as 'rugpull'. Once investors start buying token from the exchange, the liquidity pool will accumulate more and more coins of established value (e.g., ETH or BNB or Tether). This is because investors are basically sending these tokens of value to the exchange, to get the new token. Developers can withdraw this liquidity from the exchange, cash in all the value and run off with it. Liquidity is locked by renouncing the ownership of liquidity pool (LP) tokens for a fixed time period, by sending them to a time-lock smart contract. Without ownership of LP tokens, developers cannot get liquidity pool funds back. This provides confidence to the investors that the token developers will not run away with the liquidity money. It is now a standard practice that all token developers follow, and this is what really differentiates a scam coin from a real one.

[Read More](#)



# KYC Information

**The Project Owners of Shiba Burn Tribe is not KYC. .**

KYC Information Notes:

Auditor Notes: Asked project owner about KYC, Project owner passed KYC with PinkSale.

Project Owner Notes:



# Smart Contract Vulnerability Checks

| ID      | Severity | Name  | File               | location  |
|---------|----------|---|--------------------|-----------|
| SWC-100 | Pass     | Function Default Visibility                       | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-101 | Pass     | Integer Overflow and Underflow.                   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-102 | Pass     | Outdated Compiler Version file.                   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-103 | Low      | A floating pragma is set.                         | ShibaBurnTribe.sol | L: 5 C: 0 |
| SWC-104 | Pass     | Unchecked Call Return Value.                      | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-105 | Pass     | Unprotected Ether Withdrawal.                     | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-106 | Pass     | Unprotected SELFDESTRUCT Instruction              | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-107 | Pass     | Read of persistent state following external call. | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-108 | Pass     | State variable visibility is not set..            | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-109 | Pass     | Uninitialized Storage Pointer.                    | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-110 | Pass     | Assert Violation.                                 | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-111 | Pass     | Use of Deprecated Solidity Functions.             | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-112 | Pass     | Delegate Call to Untrusted Callee.                | ShibaBurnTribe.sol | L: 0 C: 0 |





| ID      | Severity | Name   | File               | location  |
|---------|----------|--|--------------------|-----------|
| SWC-113 | Pass     | Multiple calls are executed in the same transaction.                               | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-114 | Pass     | Transaction Order Dependence.  | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-115 | Pass     | Authorization through tx.origin.   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-116 | Pass     | A control flow decision is made based on The block.timestamp environment variable. | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-117 | Pass     | Signature Malleability.  | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-118 | Pass     | Incorrect Constructor Name.  | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-119 | Pass     | Shadowing State Variables.   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-120 | Pass     | Potential use of block.number as source of randomness.                             | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-121 | Pass     | Missing Protection against Signature Replay Attacks.                               | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-122 | Pass     | Lack of Proper Signature Verification.   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-123 | Pass     | Requirement Violation.   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-124 | Pass     | Write to Arbitrary Storage Location.   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-125 | Pass     | Incorrect Inheritance Order.   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-126 | Pass     | Insufficient Gas Griefing.   | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-127 | Pass     | Arbitrary Jump with Function Type Variable.  | ShibaBurnTribe.sol | L: 0 C: 0 |



| ID      | Severity | Name   | File               | location  |
|---------|----------|--|--------------------|-----------|
| SWC-128 | Pass     | DoS With Block Gas Limit.                                | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-129 | Pass     | Typographical Error.                                     | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-130 | Pass     | Right-To-Left-Override control character (U +202E).      | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-131 | Pass     | Presence of unused variables.                            | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-132 | Pass     | Unexpected Ether balance.                                | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-133 | Pass     | Hash Collisions with Multiple Variable Length Arguments. | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-134 | Pass     | Message call with hardcoded gas amount.                  | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-135 | Pass     | Code With No Effects (Irrelevant/Dead Code).             | ShibaBurnTribe.sol | L: 0 C: 0 |
| SWC-136 | Pass     | Unencrypted Private Data On-Chain.                       | ShibaBurnTribe.sol | L: 0 C: 0 |

We scan the contract for additional security issues using MYTHX and industry standard security scanning tool



# Smart Contract Vulnerability Details

## SWC-103 - Floating Pragma.

### CWE-664: Improper Control of a Resource Through its Lifetime.

#### References:

#### Description:

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

#### Remediation:

Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

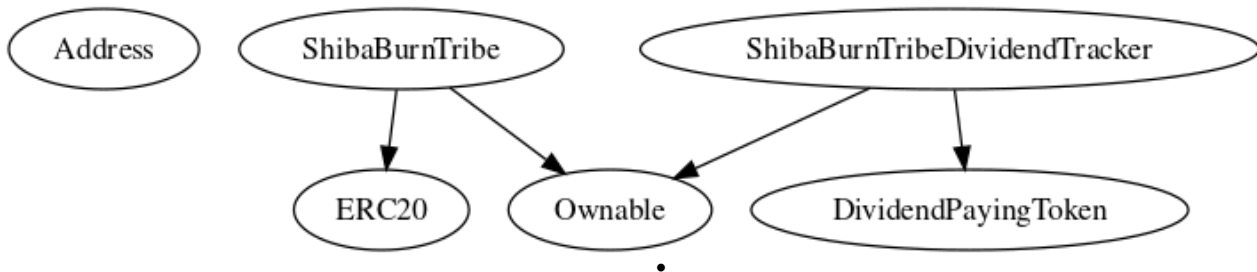
#### References:

Ethereum Smart Contract Best Practices - Lock pragmas to specific compiler version.



# Call Graph and Inheritance

The contract for Shiba Burn Tribe has the following call graph structure



## Privileged Functions (onlyOwner)

| Function Name                            | Parameters        | Visibility |
|--|-------------------|------------|
| renounceOwnership                        |                   | public     |
| transferOwnership                        | account (address) | external   |
| EnableTrading                            |                   | external   |
| updateMarketingWall<br>et                |                   | external   |
| setBuyTaxes                              |                   | external   |
| setSellTaxes                             |                   | external   |
| updateDividendTrac<br>ker                |                   | public     |
| rescueBEP20Tokens                        |                   | external   |
| excludeFromFees                          |                   | external   |
| excludeMultipleAcco<br>untsFromFees      |                   | external   |
| excludefromDividend<br>s                 |                   | external   |
| excludeMultipleAcco<br>untsFromDividends |                   | external   |



| Function Name              | Parameters | Visibility |
|----------------------------|------------|------------|
| setMarketingWallet         |            | external   |
| setSwapTokensAtAmount      |            | external   |
| setMaxTxLimit              |            | external   |
| setSwapEnabled             |            | external   |
| setCooldownTime            |            | external   |
| EnableTradingEnabled       |            | external   |
| setAntiBotBlocks           |            | external   |
| SetMinBalanceFromDividends |            | external   |
| setGasForProcessing        |            | external   |
| setClaimWait               |            | external   |
| airDropTokens              |            | external   |
| updateClaimWait            |            | external   |
| setBalance                 |            | external   |



| Function Name  | Parameters | Visibility |
|----------------|------------|------------|
| processAccount |            | external   |





## Assessment Results

- Contract has taxes up to 10%.
- Owner can't set max tx amount.
- Owner can't pause trading.
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.
- Contract has been developed by Anoop and follow the coding best practices, we have fully tested the code and its functionalities.

## Audit Passed



# Social Media Checks

| Social Media | URL   | Result |
|--------------|---|--------|
| Twitter      | <a href="https://twitter.com/ShibaBurnTribe?t=3oXXgtwze4AO_16yCfglfw&amp;s=09">https://twitter.com/ShibaBurnTribe?t=3oXXgtwze4AO_16yCfglfw&amp;s=09</a> | Pass   |
| Instagram    |   | Fail   |
| Website      | <a href="https://shibaburntribe.com/">https://shibaburntribe.com/</a>   | Pass   |
| Telegram     | <a href="https://t.me/shibaburntribe">https://t.me/shibaburntribe</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:** Projects owners have other socials: <https://discord.gg/G9XYB5G7>








# Technical Findings Summary

## Classification of Risk

| Severity  | Description   |
|---|---|
|  Critical        | risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.                     |
|  Major           | risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.                            |
|  Medium          | risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform   |
|  Minor           | risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the project, but they may be less efficient than other solutions.               |
|  Informational | errors are often recommendations to improve the style of the code or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code. |

## Findings

| Severity  | Found | Pending | Resolved |
|---|-------|---------|----------|
|  Critical      | 0     | 0       | 0        |
|  Major         | 0     | 0       | 0        |
|  Medium        | 0     | 0       | 0        |
|  Minor         | 0     | 0       | 0        |
|  Informational | 0     | 0       | 0        |
| Total   | 0     | 0       | 0        |



# Appendix

## Finding Categories

### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block.timestamp works.

### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

### Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

### Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.



# 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 deprecation of technologies.

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