SPYWOLF

Security Audit Report

Audit prepared for

Chow Chow Inu

Completed on

December 28, 2024

OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team’s evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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Chow Chow Inu

PROJECT DESCRIPTION:

Chow Chow Inu is inspired by the charming and loyal Chow Chow dog, known for its fluffy coat and lion-like appearance. This meme token captures the spirit of playfulness and loyalty, uniting a community of crypto enthusiasts with a love for both dogs and blockchain innovation.

Release Date: January 1, 2025

Launchpad: Pinksale

Category: Meme token

KEY RESULTS

Cannot mint new tokens	PASSED
Cannot pause trading (honeypot)	PASSED
Cannot blacklist an address	PASSED
Cannot raise taxes over 25%?	PASSED
No proxy contract detected	PASSED
Not required to enable trading	NOT PASSED
No hidden ownership	PASSED
Cannot change the router	PASSED
No cooldown feature found	PASSED
Bot protection delay is lower than 5 blocks	PASSED
Cannot set max tx amount below 0.05% of total supply	PASSED
The contract cannot be self-destructed by owner	PASSED

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

*Only new deposits/reinvestments can be paused

CONTRACT INFO

Token Name	Symbol
Chow Chow Inu	CINU

Contract Address
0xA26a756a2347C37fa4ad2f4c932990f3837b4eb8

Network	Language
BSC	Solidity

Deployment Date	Contract Type
December 28, 2024	Standard

Total Supply	Decimals
1,000,000,000	9

TAXES

Buy Tax	Sell Tax
5%	5%

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

SMART CONTRACT STATS

Calls Count	12
External calls	8
Internal calls	4
Transactions count	9
Last transaction time	2024-12-28 10:00:00 UTC
Deployment Date	2024-12-28 07:00:00 UTC
Create TX	0x842a9578d611afe30539bd258e0922f2115ff83f015ab1db1caf64d391c39036
Owner	0xdCa5b161C07B90e9407a92333a14953EDf0b7b3F
Deployer	0x6A983474e35DAF0D5EC54Ae4A5436cCc7a3dF995

TOKEN TRANSFERS STATS

Transfer Count	1
Total Amount	43,590,700 CINU
Median Transfer Amount	43,590,700 CINU
Average Transfer Amount	43,590,700 CINU
First transfer date	Dec 28, 2024, at 10:19:55 AM UTC
Last transfer date	Dec 28, 2024, at 10:19:55 AM UTC
Days token transferred	1 Day

FEATURED WALLETS

Owner address	0xdCa5b161C07B90e9407a92333a14953EDf0b7b3F
Marketing fee receiver	0xaD784c9f74cA903e26912d1da1B5089cA7E67144
LP address	**Pancakeswap:** 0x9497b48ee0EB613b272327D8B556BB15b391E885 Liquidity is not added yet

TOP 3 UNLOCKED WALLETS

unavailable	
unavailable	
unavailable	

VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	**Passed**
SWC-101	Integer Overflow and Underflow	**Passed**
SWC-102	Outdated Compiler Version	**Passed**
SWC-103	Floating Pragma	**Passed**
SWC-104	Unchecked Call Return Value	**Passed**
SWC-105	Unprotected Ether Withdrawal	**Passed**
SWC-106	Unprotected SELFDESTRUCT Instruction	**Passed**
SWC-107	Reentrancy	**Passed**
SWC-108	State Variable Default Visibility	**Passed**
SWC-109	Uninitialized Storage Pointer	**Passed**
SWC-110	Assert Violation	**Passed**
SWC-111	Use of Deprecated Solidity Functions	**Passed**
SWC-112	Delegatecall to Untrusted Callee	**Passed**
SWC-113	DoS with Failed Call	**Passed**
SWC-114	Transaction Order Dependence	**Passed**
SWC-115	Authorization through tx.origin	**Passed**
SWC-116	Block values as a proxy for time	**Passed**
SWC-117	Signature Malleability	**Passed**
SWC-118	Incorrect Constructor Name	**Passed**

VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed

VULNERABILITY ANALYSIS

NO ERRORS FOUND

MANUAL
CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

THREAT LEVELS

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ Medium Risk

Owner can enable trading once via `enableTrading()` function. `enableTrading()` should be trigerred in order trading to be enabled for regular users.

In the contract, the variable tradingActive is set to false by default, meaning no one (except whitelisted users) can trade tokens initially.

Owner can allow addresses to trade before trading enabling.

```
function _transfer(address from, address to, uint256 amount) internal override {
    require(from != address(0), "ERC20: transfer from the zero address");
    require(to != address(0), "ERC20: transfer to the zero address");

    // Trading lock: ensures trading is not active unless specifically enabled
    require(isNotLockBuySell(from), "CINU: Lock");
    require(isCanTradeFee(from, to), "CINU: Lock");

    if (amount == 0) {
        super._transfer(from, to, 0);
        return;
    }

    // Remaining transfer logic...
}
```

- Recommendation:
  - **Enable Trading Before Presale Starts:** Ensure that `enableTrading()` is called before presale, allowing all users to trade as expected.

FOUND THREATS

⚠ Low Risk

At time of the audit, the buyback address is EOA and not contract.
Buyback address cannot be changed from the contract's owner.

- If the buyback wallet is set to a contract address that cannot accept BNB, the `sendValue` function will revert, halting the functionality tied to BNB distribution.
- Marketing wallet is protected because it explicitly disallows being set to a contract.

```
address public marketingWallet;
address public buyBackWallet;

function setMarketingWallet(address _marketingWallet) external onlyOwner {
    require(
        _marketingWallet != address(0),
        "Marketing wallet cannot be the zero address"
    );
    require(
        !isContract(_marketingWallet),
        "Marketing wallet cannot be a contract"
    );

    marketingWallet = _marketingWallet;
}
```

FOUND THREATS

Informational

Owner can exclude address from fees.
When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function setExcludeFromFees(address account, bool excluded) external onlyOwner {
    require(
        _isExcludedFromFees[account] != excluded,
        "Account is already the value of 'excluded'"
    );
    _isExcludedFromFees[account] = excluded;

    emit UpdateExcludeFromFees(account, excluded);
}
```

The following tokenomics are based on the project's whitepaper and/or website:

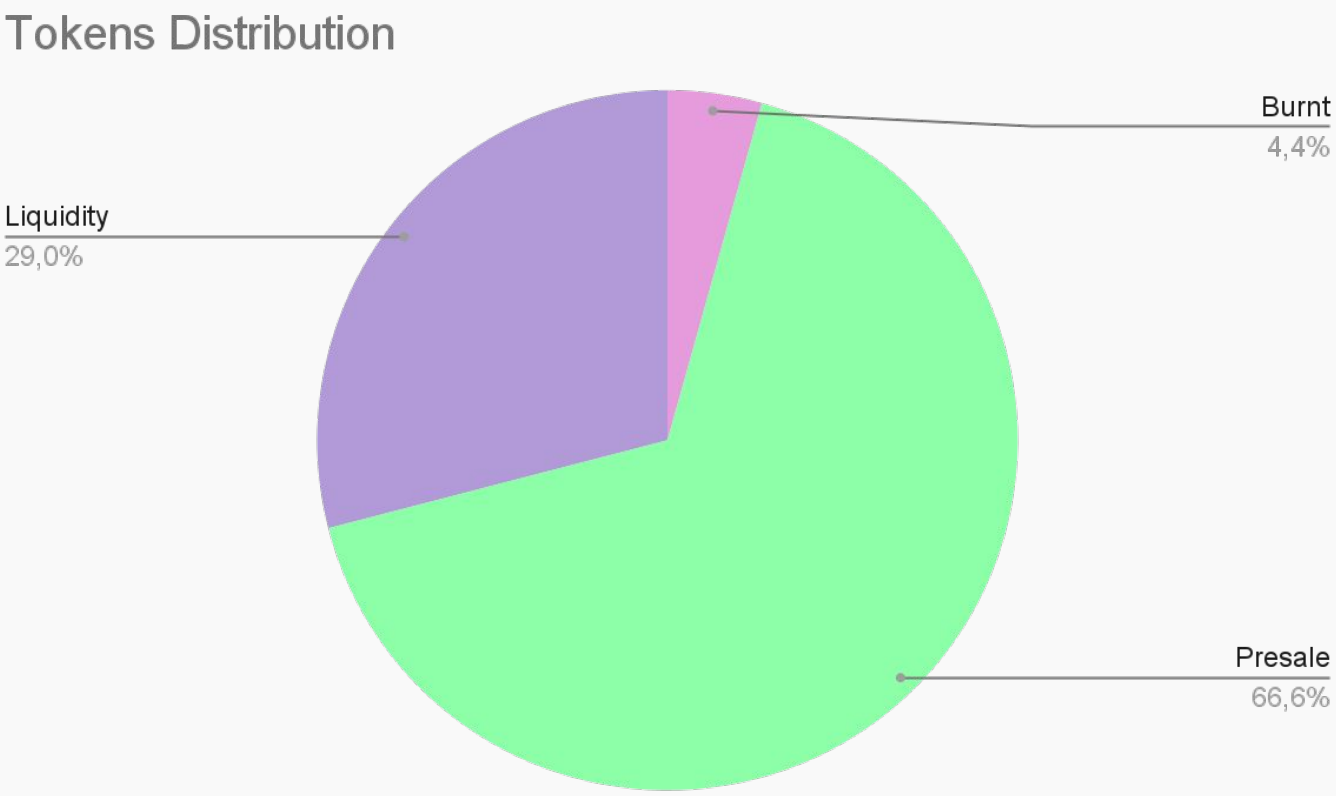
Tokenomics:

Burnt - 4.4%,

Presale - 66.6%,

Liquidity - 29%,

Token Distribution



TOKENOMICS

WEBSITE

Website URL:
https://chowchowinu.com/

Domain Registry
https://namecheap.com

Domain Expiration
2025-12-22

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Single page design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found. .

Whitepaper
No

Roadmap
Yes, goals set without time frames

Mobile-friendly?
Yes

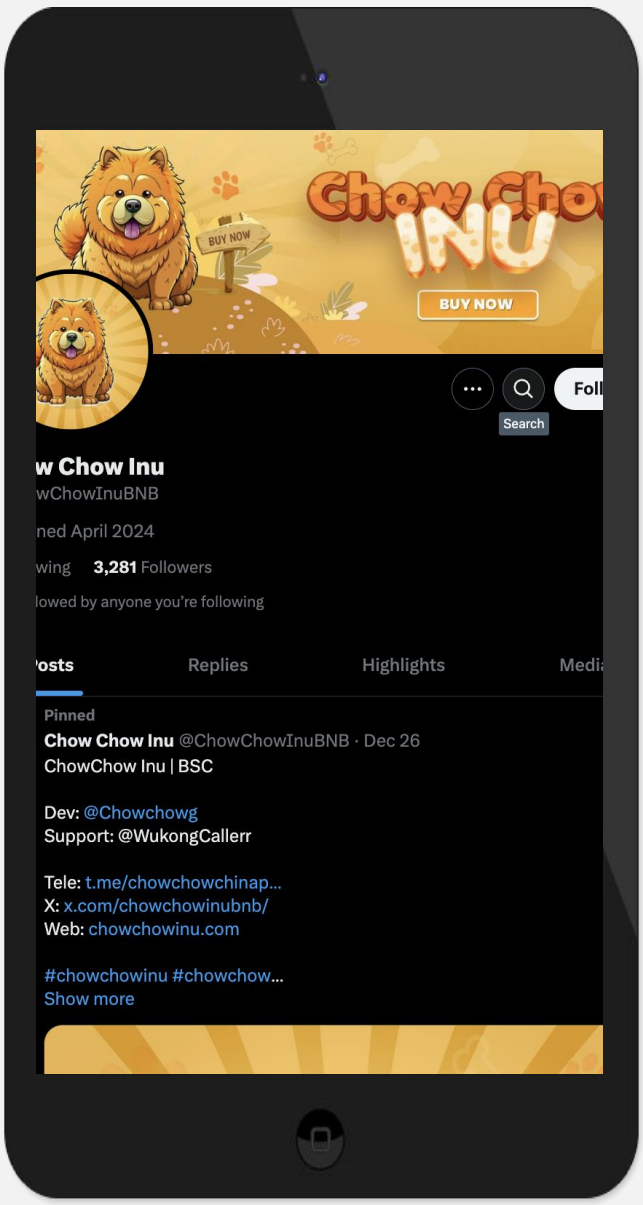
chowchowinu.com

SOCIAL MEDIA

Social Score: 100%

ANALYSIS

Project's social media pages are active with daily posts.



Twitter:

@chowchowinubnb

- 3,281 Followers
- Posts frequently
- Active

Discord

unavailable

Telegram:

@chowchowchinaportal

- 1 583 members
- Active mods
- Active members

Medium

unavailable

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We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.