



SPHINXSHIELD

Security Assessment

BNB Whales

Oct 23th, 2023

Disclaimer: SphinxShield conducts security assessments on the provided source code exclusively.
Conduct your own due diligence before deciding to use any info listed at this page.



Evaluation Outcomes

Security Score

| Review | Score |
|---------------|--------|
| Overall Score | 83/100 |
| Auditor Score | 81/100 |

| Review by Section | Score |
|---------------------|-------|
| Manual Scan Score | 29/57 |
| Advance Check Score | 11/19 |

Scoring System

This scoring system is provided to gauge the overall value of the audit. The maximum achievable score is 100, but reaching this score requires the project to meet all assessment requirements.

Our updated passing score is now set at 80 points. If a project fails to achieve at least 80% of the total score, it will result in an automatic failure.

Please refer to our notes and final assessment for more details.





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Summary

This audit report is tailored for **BNB Whales**, aiming to uncover potential issues and vulnerabilities within the **BNB Whales** project's source code, along with scrutinizing contract dependencies outside recognized libraries. Our audit comprises a comprehensive investigation involving Static Analysis and Manual Review techniques.

Our audit process places a strong emphasis on the following focal points:

1. Rigorous testing of smart contracts against both commonplace and rare attack vectors.
2. Evaluation of the codebase for alignment with contemporary best practices and industry standards.
3. Ensuring the contract logic is in harmony with the client's specifications and objectives.
4. A comparative analysis of the contract structure and implementation against analogous smart contracts created by industry frontrunners.
5. An exhaustive, line-by-line manual review of the entire codebase by domain experts.

The outcome of this security assessment yielded findings spanning from critical to informational. To uphold robust security standards and align with industry norms, we present the following security-driven recommendations:

1. Elevate general coding practices to optimize source code structure.
2. Implement an all-encompassing suite of unit tests to account for all conceivable use cases.
3. Enhance codebase transparency through increased commenting, particularly in externally verifiable contracts.
4. Improve clarity regarding privileged activities upon the protocol's transition to a live state.



Overview

Project Summary

| | |
|--------------|---|
| Project Name | BNB Whales |
| Blockchain | Binance Smart Chain |
| Language | Solidity |
| Codebase | https://bscscan.com/address/0x8689DeA88EC1E2638250Eef702E722C6dACFF70E |
| Commit | |

Audit Summary

| | |
|-------------------|--------------------------------|
| Delivery Date | Oct 23th, 2023 |
| Audit Methodology | Static Analysis, Manual Review |
| Key Components | |

Vulnerability Summary

| Vulnerability Level | Total | ⚠ Pending | ⊗ Declined | ℹ Acknowledged | ✓ Resolved |
|---------------------|-------|-----------|------------|----------------|------------|
| ● High | 1 | 0 | 0 | 1 | 0 |
| ● Medium | 3 | 0 | 0 | 3 | 0 |
| ● Low | 0 | 0 | 0 | 0 | 0 |
| ● Informational | 17 | 0 | 0 | 17 | 0 |
| ● Discussion | 0 | 0 | 0 | 0 | 0 |

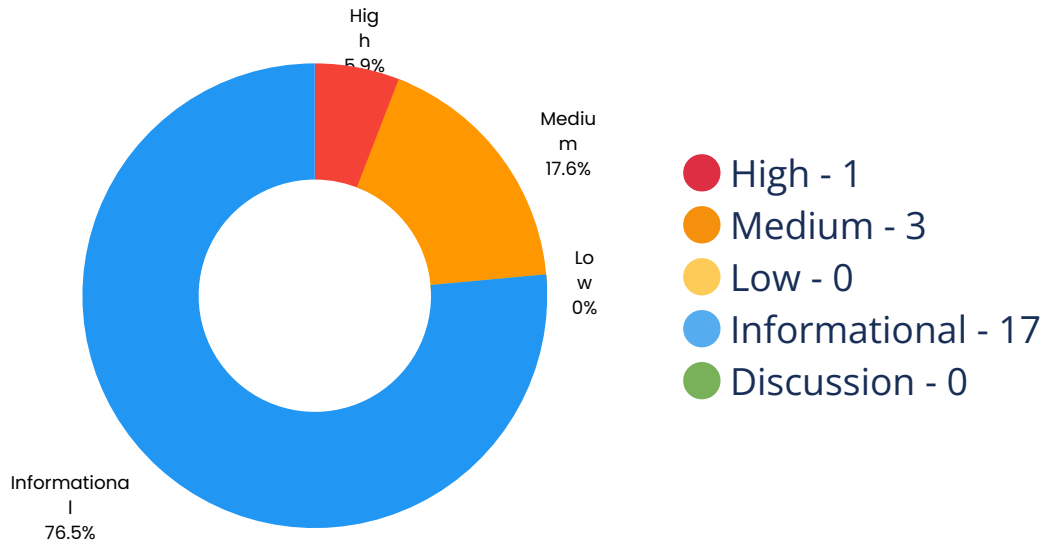


Audit Scope

| ID | File | KECCAK256 or SHA256 Checksum |
|-----|------------------|--|
| SPM | BNBWhales.so | 0xcd989df10a349b74e5a1f135f7e5835d124f6bef93c154dfe4d7445ad8744df2 |



Findings



| Location | Title | Scope | Severity | Status |
|-----------------------------------|--|-----------|---------------|--------------|
| BNBWhales.sol:545 | Freeze Money | BNBWhales | High | Acknowledged |
| BNBWhales.sol:672 | Unexpected Ether Balance | BNBWhales | Medium | Acknowledged |
| BNBWhales.sol:760 | Unexpected Ether Balance | BNBWhales | Medium | Acknowledged |
| BNBWhales.sol:762 | Unexpected Ether Balance | BNBWhales | Medium | Acknowledged |
| BNBWhales.sol:339 | Prefer uint256 | BNBWhales | Informational | Acknowledged |
| BNBWhales.sol:16,141,48,325,3 | Recommend to Follow Code Layout Conventions | Ownable | Informational | Acknowledged |
| BNBWhales.sol:825,532,473,459,523 | No Check of Address Params with Zero Address | BNBWhales | Informational | Acknowledged |
| BNBWhales.sol:337,366,339,338,342 | Variables Should Be Constants | BNBWhales | Informational | Acknowledged |
| BNBWhales.sol:714 | Use Shift Operation Instead of Mul/Div | BNBWhales | Informational | Acknowledged |



| Location | Title | Scope | Severity | Status |
|---|--|-----------|-----------------|--------------|
| BNBWhales.sol:677 | Continuous State Variable Write | BNBWhales | ● Informational | Acknowledged |
| BNBWhales.sol:583,534 | Use ++i/--i Instead of i++/i-- | BNBWhales | ● Informational | Acknowledged |
| BNBWhales.sol:598,613,596,617,641,625,430,582,525,783,633,784,429,608,760,606,621,767,549,419,548,581 | Cache State Variables that are Read Multiple Times within A Function | BNBWhales | ● Informational | Acknowledged |
| BNBWhales.sol:667 | Use != 0 Instead of > 0 for Unsigned Integer Comparison | BNBWhales | ● Informational | Acknowledged |
| BNBWhales.sol:484,442,648,479,473,464,493,523,446,506,497,438,489,459,468 | Function Visibility Can Be External | BNBWhales | ● Informational | Acknowledged |
| BNBWhales.sol:393,524,533,744,666,826,499,507,518,667,32,42,654,653 | Use CustomError Instead of String | Ownable | ● Informational | Acknowledged |
| BNBWhales.sol:393 | Lack of Error Message | BNBWhales | ● Informational | Acknowledged |
| BNBWhales.sol:373 | Unused State Variables | BNBWhales | ● Informational | Acknowledged |
| BNBWhales.sol:518,744,666,667,826,42,654,653,499 | Long String in revert/require | Ownable | ● Informational | Acknowledged |
| BNBWhales.sol:353,350,360,362,364,349,352,368,359,346,347,363,369 | Variables Can Be Declared as Immutable | BNBWhales | ● Informational | Acknowledged |



| Location | Title | Scope | Severity | Status |
|-------------------------------|---|-----------|-----------------|-------------|
| BNBWhales.sol:736,700,723,713 | Get Contract Balance of ETH in Assembly | BNBWhales | ● Informational | Aknowledged |
| BNBWhales.sol:666,42,654,653 | Use Assembly to Check Zero Address | Ownable | ● Informational | Aknowledged |



Code Security – Freeze Money

| Title | Severity | Location | Status |
|--------------|----------|-------------------|-------------|
| Freeze Money | ● High | BNBWhales.sol:545 | Aknowledged |

Description

There is at least one payable function in the contract, but no transfer function(like send, transfer, call...) exists, which will cause Ether to be locked in the contract.

Code Security – Unexpected Ether Balance

| Title | Severity | Location | Status |
|--------------------------|----------|-------------------|-------------|
| Unexpected Ether Balance | ● Medium | BNBWhales.sol:672 | Aknowledged |

Description

Strict checks on the balance of the account may cause the contract to run abnormally, because the change of the balance of the account may be affected by various factors. For example, the selfdestruct method in a contract allows sending arbitrary Ether to another contract without triggering the fallback function of another contract.

Code Security – Unexpected Ether Balance

| Title | Severity | Location | Status |
|--------------------------|----------|-------------------|-------------|
| Unexpected Ether Balance | ● Medium | BNBWhales.sol:760 | Aknowledged |

Description

Strict checks on the balance of the account may cause the contract to run abnormally, because the change of the balance of the account may be affected by various factors. For example, the selfdestruct method in a contract allows sending arbitrary Ether to another contract without triggering the fallback function of another contract.



Code Security – Unexpected Ether Balance

| Title | Severity | Location | Status |
|--------------------------|----------|-------------------|-------------|
| Unexpected Ether Balance | ● Medium | BNBWhales.sol:762 | Aknowledged |

Description

Strict checks on the balance of the account may cause the contract to run abnormally, because the change of the balance of the account may be affected by various factors. For example, the selfdestruct method in a contract allows sending arbitrary Ether to another contract without triggering the fallback function of another contract.

Optimization Suggestion – Prefer uint256

| Title | Severity | Location | Status |
|----------------|-----------------|-------------------|-------------|
| Prefer uint256 | ● Informational | BNBWhales.sol:339 | Aknowledged |

Description

It is recommended to use uint256/int256 types to avoid gas overhead caused by 32 bytes padding.

Optimization Suggestion – Recommend to Follow Code Layout Conventions

| Title | Severity | Location | Status |
|---|-----------------|-------------------------------|-------------|
| Recommend to Follow Code Layout Conventions | ● Informational | BNBWhales.sol:16,141,48,325,3 | Aknowledged |

Description

In the solidity document(<https://docs.soliditylang.org/en/v0.8.17/style-guide.html>), there are the following conventions for code layout: Layout contract elements in the following order: 1. Pragma statements, 2. Import statements, 3. Interfaces, 4. Libraries, 5. Contracts. Inside each contract, library or interface, use the following order: 1. Type declarations, 2. State variables, 3. Events, 4. Modifiers, 5. Functions. Functions should be grouped according to their visibility and ordered: 1. constructor, 2. receive function (if exists), 3. fallback function (if exists), 4. external, 5. public, 6. internal, 7. private.



Optimization Suggestion – No Check of Address Params with Zero Address

| Title | Severity | Location | Status |
|--|------------------------------|---------------------------------------|--------------|
| No Check of Address Params with Zero Address | ● Informational | BNBWhales.sol:825,53 2,473,459,523 | Acknowledged |

Description

The input parameter of the address type in the function does not use the zero address for verification.

Optimization Suggestion – Variables Should Be Constants

| Title | Severity | Location | Status |
|-------------------------------|------------------------------|---------------------------------------|--------------|
| Variables Should Be Constants | ● Informational | BNBWhales.sol:337,36 6,339,338,342 | Acknowledged |

Description

There are unchanging state variables in the contract, and putting unchanging state variables in storage will waste gas.

Optimization Suggestion – Use Shift Operation Instead of Mul/Div

| Title | Severity | Location | Status |
|--|------------------------------|-------------------|--------------|
| Use Shift Operation Instead of Mul/Div | ● Informational | BNBWhales.sol:714 | Acknowledged |

Description

It is recommended to use shift operation instead of direct multiplication and division if possible, because shift operation is more gas-efficient.



Optimization Suggestion – Continuous State Variable Write

| Title | Severity | Location | Status |
|---------------------------------|------------------------------|-------------------|-------------|
| Continuous State Variable Write | ● Informational | BNBWhales.sol:677 | Aknowledged |

Description

When there are multiple continuous write operations on a state variable, the intermediate write operations are redundant and will cost more gas.

Optimization Suggestion – Use ++i/--i Instead of i++/i--

| Title | Severity | Location | Status |
|--------------------------------|------------------------------|-----------------------|-------------|
| Use ++i/--i Instead of i++/i-- | ● Informational | BNBWhales.sol:583,534 | Aknowledged |

Description

Compared with i++, ++i can save about 5 gas per use. Compared with i--, --i can save about 3 gas per use in for loop.

Optimization Suggestion – Cache State Variables that are Read Multiple Times within A Function

| Title | Severity | Location | Status |
|--|------------------------------|---|-------------|
| Cache State Variables that are Read Multiple Times within A Function | ● Informational | BNBWhales.sol:598,613,596,617,641,625,430,582,525,783,633,784,429,608,760,606,621,767,549,419,548,581 | Aknowledged |

Description

When a state variable is read multiple times in a function, using a local variable to cache the state variable can avoid frequently reading data from storage, thereby saving gas.



Optimization Suggestion – Use != 0 Instead of > 0 for Unsigned Integer Comparison

| Title | Severity | Location | Status |
|---|------------------------------|-------------------|--------------|
| Use != 0 Instead of > 0 for Unsigned Integer Comparison | ● Informational | BNBWhales.sol:667 | Acknowledged |

Description

For unsigned integers, use !=0 for comparison, which consumes less gas than >0. When compiler optimization is turned off, about 3 gas can be saved. When compiler optimization is turned on, no gas can be saved.

Optimization Suggestion – Function Visibility Can Be External

| Title | Severity | Location | Status |
|-------------------------------------|------------------------------|---|--------------|
| Function Visibility Can Be External | ● Informational | BNBWhales.sol:484,44 2,648,479,473,464,493 ,523,446,506,497,438, 489,459,468 | Acknowledged |

Description

Functions that are not called should be declared as external.

Optimization Suggestion – Use CustomError Instead of String

| Title | Severity | Location | Status |
|-----------------------------------|------------------------------|---|--------------|
| Use CustomError Instead of String | ● Informational | BNBWhales.sol:393,52 4,533,744,666,826,499 ,507,518,667,32,42,65 4,653 | Acknowledged |

Description

When using require or revert, CustomError is more gas efficient than string description, as the error message described using CustomError is only compiled into four bytes. Especially when string exceeds 32 bytes, more gas will be consumed. Generally, around 250-270 gas can be saved for one CustomError replacement when compiler optimization is turned off, 60-80 gas can be saved even if compiler optimization is turned on.



Optimization Suggestion – Lack of Error Message

| Title | Severity | Location | Status |
|-------|----------|----------|--------|
|-------|----------|----------|--------|

Lack of Error Message

● Informational

BNBWhales.sol:393

Acknowledged

Description

Use empty string as parameter while invoking function Revert() or Require().

Optimization Suggestion – Unused State Variables

| Title | Severity | Location | Status |
|-------|----------|----------|--------|
|-------|----------|----------|--------|

Unused State Variables

● Informational

BNBWhales.sol:373

Acknowledged

Description

The state variables are not used, which will increase the gas consumption.

Optimization Suggestion – Long String in revert/require

| Title | Severity | Location | Status |
|-------|----------|----------|--------|
|-------|----------|----------|--------|

Long String in revert/require

● Informational

BNBWhales.sol:518,74
4,666,667,826,42,654,
653,499

Acknowledged

Description

If the string parameter in the revert/require function exceeds 32 bytes, more gas will be consumed.



Optimization Suggestion - Variables Can Be Declared as Immutable

| Title | Severity | Location | Status |
|--|------------------------------|---|--------------|
| Variables Can Be Declared as Immutable | ● Informational | BNBWhales.sol:353,350,360,362,364,349,352,368,359,346,347,363,369 | Acknowledged |

Description

The solidity compiler of version 0.6.5 introduces immutable to modify state variables that are only modified in the constructor. Using immutable can save gas.

Optimization Suggestion - Get Contract Balance of ETH in Assembly

| Title | Severity | Location | Status |
|---|------------------------------|-------------------------------|--------------|
| Get Contract Balance of ETH in Assembly | ● Informational | BNBWhales.sol:736,700,723,713 | Acknowledged |

Description

Using the selfbalance and balance opcodes to get the ETH balance of the contract in assembly saves gas compared to getting the ETH balance through address(this).balance and xx.balance. When compiler optimization is turned off, about 210-250 gas can be saved, and when compiler optimization is turned on, about 50-100 gas can be saved.

Optimization Suggestion - Use Assembly to Check Zero Address

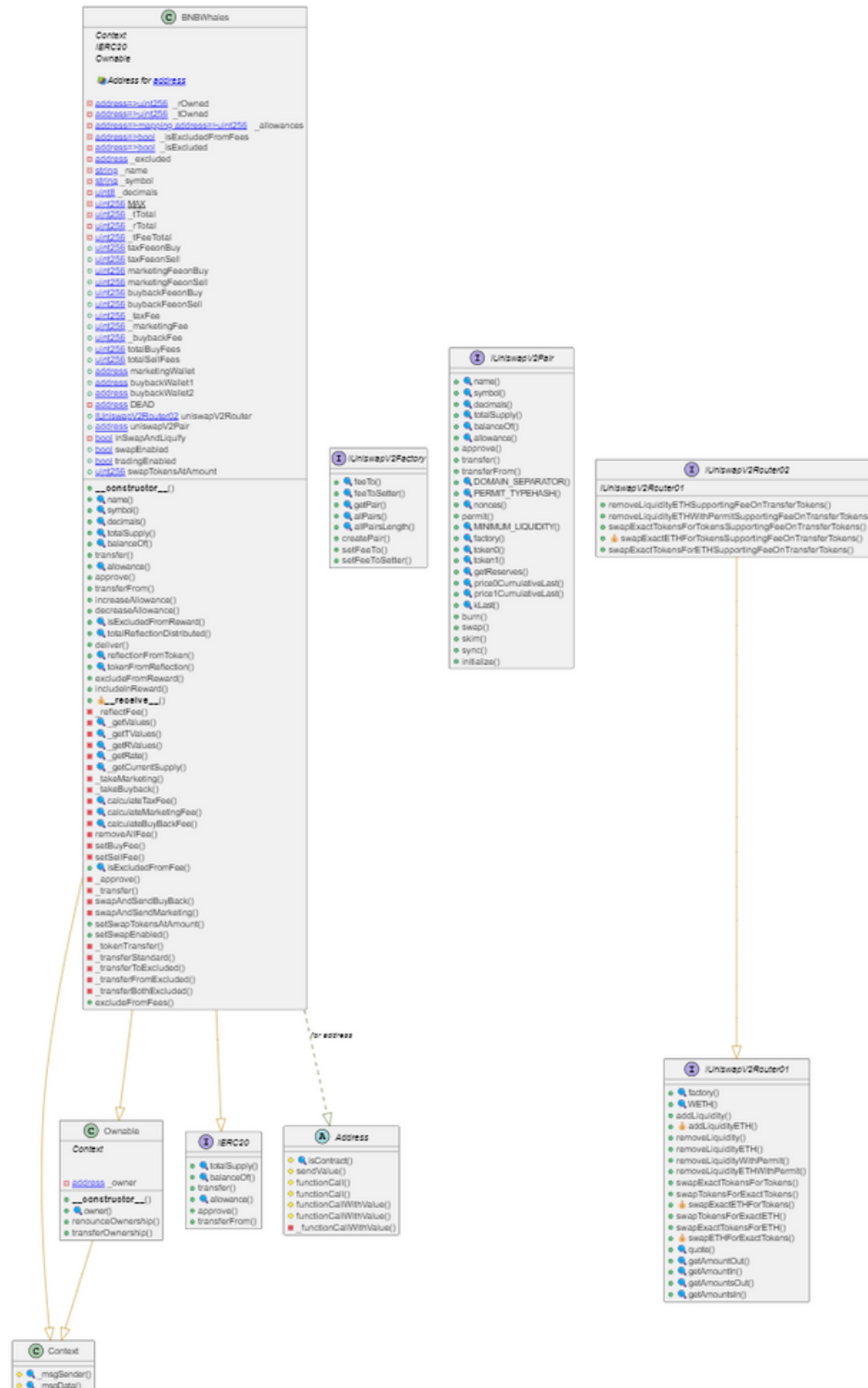
| Title | Severity | Location | Status |
|------------------------------------|------------------------------|------------------------------|--------------|
| Use Assembly to Check Zero Address | ● Informational | BNBWhales.sol:666,42,654,653 | Acknowledged |

Description

Using assembly to check zero address can save gas. About 18 gas can be saved in each call.



PlantUML





Appendix

Finding Categories

Security and Best Practices

1. Freeze Money: Ensure that contracts are designed to handle the freezing of funds effectively to prevent unauthorized transfers or withdrawals.
2. Unexpected Ether Balance: Verify that Ether balances are managed correctly, and unexpected Ether balances are avoided.
3. Prefer uint256: Emphasize the use of the uint256 data type for integer variables to prevent potential overflow or underflow issues.
4. Recommend to Follow Code Layout Conventions: Enforce consistent code layout conventions to enhance code readability and maintainability.
5. No Check of Address Params with Zero Address: Validate address parameters to ensure they are not the zero address, preventing potential issues.
6. Variables Should Be Constants: Declare variables as constants if they are not intended to change during contract execution.
7. Use Shift Operation Instead of Mul/Div: Utilize bit-wise shift operations for multiplication and division operations to improve efficiency and reduce gas costs.
8. Continuous State Variable Write: Minimize state variable writes to enhance contract efficiency and reduce gas consumption.
9. Use ++i/--i Instead of i++/i--: Employ the ++i and --i increment and decrement operators over the i++ and i-- operators to prevent potential issues.
10. Cache State Variables that are Read Multiple Times within A Function: Cache frequently accessed state variables to reduce redundant read operations.
11. Use != 0 Instead of > 0 for Unsigned Integer Comparison: Use the != operator for comparisons with zero to prevent potential issues related to signed and unsigned integers.
12. Function Visibility Can Be External: Set function visibility to external if they are only accessed externally to enhance gas efficiency.
13. Use CustomError Instead of String: Prefer custom error codes over string error messages for improved contract efficiency.
14. Lack of Error Message: Include informative error messages to aid in debugging and error handling.
15. Unused State Variables: Avoid unused state variables, as they can lead to unnecessary gas costs and confusion in code.
16. Long String in revert/require: Optimize long revert or require strings for efficient gas usage.
17. Variables Can Be Declared as Immutable: Declare variables as immutable if their values will not change after initialization to enhance security and readability.
18. Get Contract Balance of ETH in Assembly: Employ optimized assembly checks to verify contract balances efficiently.



KECCAK256 or SHA256 Checksum Verification

Checksum verification is a critical component of smart contract development. It ensures the integrity of contract deployment and code execution by confirming that the bytecode being executed matches the intended source code. The following details the KECCAK256 and SHA256 checksum verification process.

KECCAK256 Checksum Verification:

- **Checksum Definition:** KECCAK256 is a cryptographic hashing function used in Ethereum to create a checksum of the contract bytecode. It is part of the Ethereum Name Service (ENS) standard.
- **Use Cases:** KECCAK256 checksums are used in ENS for verification of Ethereum addresses. They help prevent unintended transfers due to typos or errors.
- **Checksum Process:** The KECCAK256 checksum is created by taking the SHA3 hash of the lowercase hexadecimal Ethereum address, and then converting it to the corresponding checksum address by replacing characters with uppercase letters.

SHA256 Checksum Verification:

- **Checksum Definition:** SHA256 is a widely used cryptographic hash function, often employed to verify the integrity of data and contracts.
- **Use Cases:** SHA256 checksums are widely used in software development, including the verification of software downloads and smart contracts.
- **Checksum Process:** The SHA256 checksum is generated by applying the SHA256 hashing algorithm to the content of the contract. This results in a fixed-length hexadecimal value that is compared to the expected value to verify the contract's integrity.

Importance of Checksum Verification:

- Checksum verification ensures that smart contracts are executed as intended, preventing tampering and security vulnerabilities.
- It is a security best practice to verify that the deployed bytecode matches the intended source code, reducing the risk of unexpected behavior.

Best Practices:

- Always use checksum verification in situations where it is essential to verify Ethereum addresses or contract integrity.
- Implement checksum verification to ensure that contract deployment and interactions occur as intended.
- Verify the validity of contract deployments and the integrity of the code during development and deployment phases.



Website Scan



<https://bnbwhales.net/>



Network Security

High | 0 Attentions

Application Security

High | 2 Attentions

DNS Security

High | 0 Attentions

Network Security



9 Passed



0 Attention

FTP Service Anonymous LOGIN

NO

VNC Service Accesible

NO

RDP Service Accesible

NO

LDAP Service Accesible

NO

PPTP Service Accesible

NO

RSYNC Service Accesible

NO

SSH Weak Cipher

NO

SSH Support Weak MAC

NO

CVE on the Related Service

NO



Application Security

✓ 9 Passed

i 2 Attention

Missing X-Frame-Options Header

NO ✓

Missing HSTS header

YES i

Missing X-Content-Type-Options Header

NO ✓

Missing Content Security Policy (CSP)

YES i

HTTP Access Allowed

NO ✓

Self-Signed Certificate

NO ✓

Wrong Host Certificate

NO ✓

Expired Certificate

NO ✓

SSL/TLS Supports Weak Cipher

NO ✓

Support SSL Protocols

NO ✓

Support TLS Weak Version

NO ✓



DNS Health

✓ 10 Passed

i 0 Attention

| | | |
|--|----|---|
| Missing SPF Record | NO | ✓ |
| Missing DMARC Record | NO | ✓ |
| Missing DKIM Record | NO | ✓ |
| Ineffective SPF Record | NO | ✓ |
| SPF Record Contains a Softfail Without DMARC | NO | ✓ |
| Name Servers Versions Exposed | NO | ✓ |
| Allow Recursive Queries | NO | ✓ |
| CNAME in NS Records | NO | ✓ |
| MX Records IPs are Private | NO | ✓ |
| MX Records has Invalid Chars | NO | ✓ |



Social Media Checks

✓ 2 Passed

i 7 Failed

X (Twitter)



PASS ✓

Facebook

FAIL ✗

Instagram

FAIL ✗

TikTok

FAIL ✗

YouTube

FAIL ✗

Twich

FAIL ✗

Telegram



PASS ✓

Discord

FAIL ✗

Others

FAIL ✗

Recommendation

To enhance project credibility and outreach, we suggest having a minimum of three active social media channels and a fully functional website.

Social Media Information Notes

Unspecified Auditor Notes

Notes from the Project Owner



Fundamental Health

KYC Status

SphinxShield KYC

NO 

3rd Party KYC

NO 

Project Maturity Metrics

Minimally Developed

LOW

Token Launch Date

2023.10.24 14:30 (UTC)

Token Market Cap (estimate)

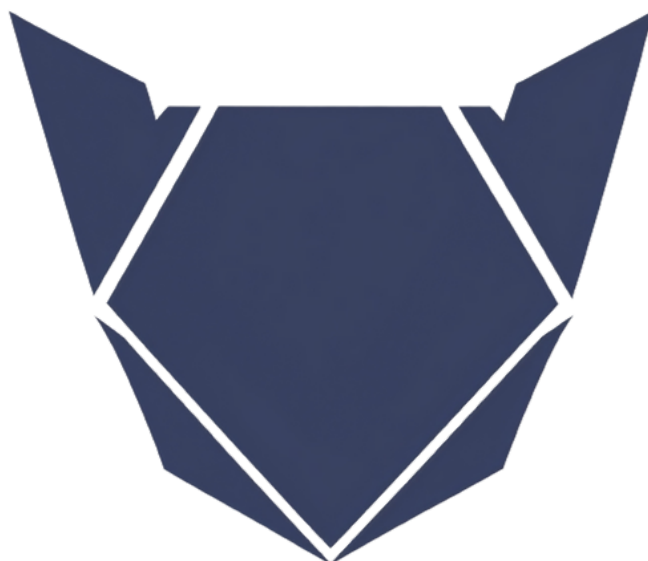
\$13,021

Token/Project Age

NOT AVAILABLE

Recommendation

We strongly recommend that the project undergo the Know Your Customer (KYC) verification process with SphinxShield to enhance transparency and build trust within the crypto community. Furthermore, we encourage the project team to reach out to us promptly to rectify any inaccuracies or discrepancies in the provided information to ensure the accuracy and reliability of their project data.





Disclaimer

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- Meet any performance or reliability standards.
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SphinxShield provides the Services solely to the customer and for the purposes specifically identified in this agreement. The Services, assessment reports, and accompanying materials may not be relied upon by any other person or for any purpose not explicitly stated in this agreement. Copies of these materials may not be delivered to any other person without SphinxShield's prior written consent in each instance.

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About

SphinxShield, established in 2023, is a cybersecurity and auditing firm dedicated to fortifying blockchain and cryptocurrency security. We specialize in providing comprehensive security audits and solutions, aimed at protecting digital assets and fostering a secure investment environment.

Our accomplished team of experts possesses in-depth expertise in the blockchain space, ensuring our clients receive meticulous code audits, vulnerability assessments, and expert security advice. We employ the latest industry standards and innovative auditing techniques to reveal potential vulnerabilities, guaranteeing the protection of our clients' digital assets against emerging threats.

At SphinxShield, our unwavering mission is to promote transparency, security, and compliance with industry standards, contributing to the growth of blockchain and cryptocurrency projects. As a forward-thinking company, we remain adaptable, staying current with emerging trends and technologies to consistently enhance our services.

SphinxShield is your trusted partner for securing crypto ventures, empowering you to explore the vast potential of blockchain technology with confidence.

