



SECURITY ASSESSMENT

Andy Alter Ego TOKEN

April 23, 2024

Audit Status: Pass



RISK ANALYSIS

Andy Alter Ego.

Classifications of Manual Risk Results

Classification	Description
Critical	Danger or Potential Problems.
High	Be Careful or Fail test.
Medium	Improve is needed.
Low	Pass, Not-Detected or Safe Item.
Informational	Function Detected

Manual Code Review Risk Results

Contract Security	Description
Buy Tax	0%
Sale Tax	0%
Cannot Buy	Pass
Cannot Sale	Pass
Max Tax	0%
Modify Tax	No
Fee Check	Pass
Is Honeypot?	Not Detected
Trading Cooldown	Not Detected
Enable Trade?	true
Pause Transfer?	Not Detected

Contract Security	Description
Max Tx?	Pass
Is Anti Whale?	Resolved
Is Anti Bot?	Resolved
Is Blacklist?	Resolved
Blacklist Check	Pass
is Whitelist?	Not Detected
Can Mint?	Pass
Is Proxy?	Not Detected
Can Take Ownership?	Not Detected
Hidden Owner?	Not Detected
Owner	no
Self Destruct?	Not Detected
External Call?	Not Detected
Other?	Not Detected
Holders	15
Audit Confidence	Medium
Authority Check	Pass
Freeze Check	Pass

The summary section reveals the strengths and weaknesses identified during the assessment, including any vulnerabilities or potential risks that may exist. It serves as a valuable snapshot of the overall security status of the audited project. However, it is highly recommended to read the entire security assessment report for a comprehensive understanding of the findings. The full report provides detailed insights into the assessment process, methodology, and specific recommendations for addressing the identified issues.

CFG Ninja Verified on April 23, 2024



Andy Alter Ego

Executive Summary

TYPES

DeFi

ECOSYSTEM

ETHEREUM

LANGUAGE

Solidity

Timeline



Vulnerability Summary



Critical

Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.

High

High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.

Medium

1 Resolved, 0 Pending

Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.

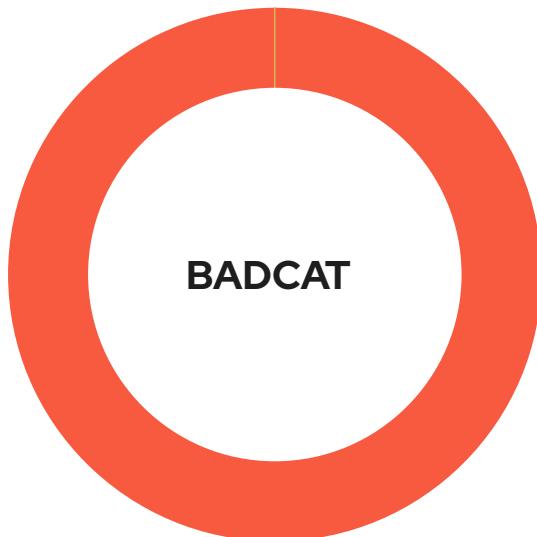
Low

Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.

Informational

Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

Token Distribution



Burn

Burned amount send to the deadWallet.

0%

Liquidity

Liquidity tokens are split from sale into the pool.

18%

Presale

Tokens allocated for the sale.

0%

Staking - Listing

Ecosystem

0%

Team and Advisors

Teams

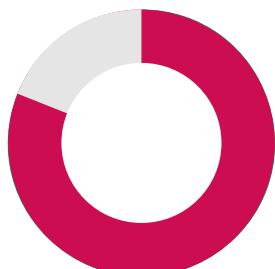
0%

Reserves

Community

0%

Total Unlock Progress



■ Unlocked

340832954273

81.0176
030504
6471%

■ Total Locked

420690000000

100%

■ Untracked

-340832954273

-81.0176
030504
6471%

PROJECT OVERVIEW | Andy Alter Ego.

Token Summary

Parameter	Result
Address	0xe4042c7c1Bf740B8DDb2aB43df6d9ED766B2513e
Name	Andy Alter Ego
Token Tracker	Andy Alter Ego (BADCAT)
Decimals	9
Supply	420,690,000,000
Platform	ETHEREUM
Compiler	v0.8.4+commit.c7e474f2
Contract Name	badcat
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/ address/0xe4042c7c1bf740b8ddb2ab43df6d9ed766b2513e#code

■ Main Contract Assessed

Name	Contract	Live
Andy Alter Ego	0xe4042c7c1Bf740B8DDb2aB43df6d9ED766B2513e	Yes

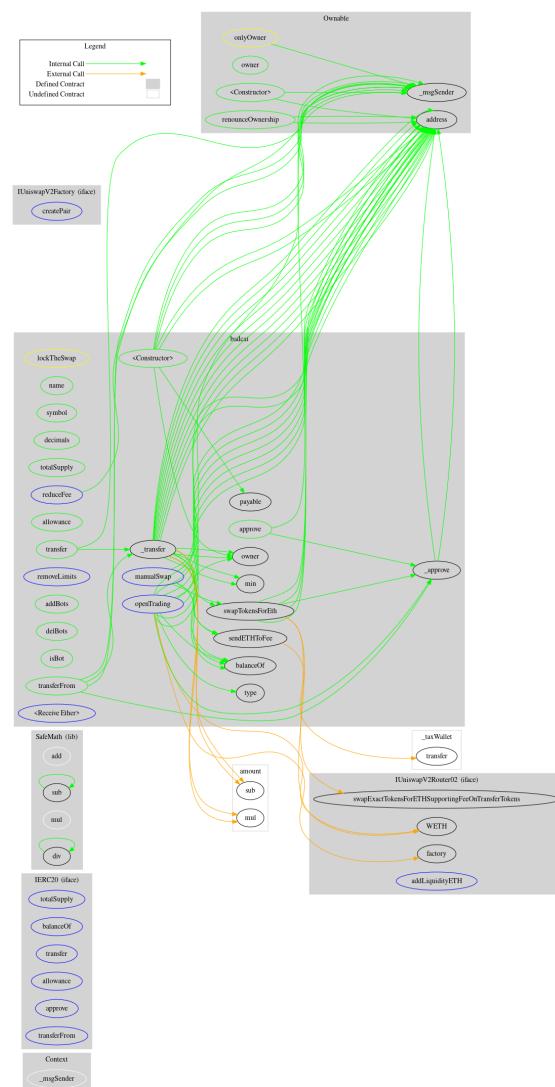
■ TestNet Contract Was Not Assessed

■ Solidity Code Provided

SolidID	File Sha-1	FileName
badcat	576306071f2e7aa8552ff5d01d79bb61eb364eb5	badcat.sol

Call Graph

The Smart Contract Graph is a visual representation of the interconnectedness and relationships between smart contracts within a blockchain network. It provides a comprehensive view of the interactions and dependencies between different smart contracts, allowing developers and users to analyze and understand the flow of data and transactions within the network. The Smart Contract Graph enables better transparency, security, and efficiency in decentralized applications by facilitating the identification of potential vulnerabilities, optimizing contract execution, and enhancing overall network performance.



TECHNICAL FINDINGS | Andy Alter Ego.

Smart contract security audits classify risks into several categories: Critical, High, Medium, Low, and Informational. These classifications help assess the severity and potential impact of vulnerabilities found in smart contracts.

Classification of Risk

Severity	Description
Critical	Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.
High	High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.
Medium	Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.
Low	Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.
Informational	Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

By categorizing risks into these classifications, smart contract security audits can prioritize the resolution of critical and high-risk vulnerabilities to ensure the contract's overall security and protect user funds and data.

BADCAT-14 | Unnecessary Use Of SafeMath.

Category	Severity	Location	Status
Logical Issue	Medium	badcat.sol: L: 38 C: 14	 Acknowledge

Description

The SafeMath library is used unnecessarily. With Solidity compiler versions 0.8.0 or newer, arithmetic operations

will automatically revert in case of integer overflow or underflow.

```
library SafeMath {
```

An implementation of SafeMath library is found.

using SafeMath for uint256;

SafeMath library is used for uint256 type in contract.

Recommendation

We advise removing the usage of SafeMath library and using the built-in arithmetic operations provided by the

Solidity programming language.

Mitigation

References:

Writing Clean Code for Solidity: Best Practices for Solidity Development

FINDINGS

In this document, we present the findings and results of the smart contract security audit. The identified vulnerabilities, weaknesses, and potential risks are outlined, along with recommendations for mitigating these issues. It is crucial for the team to address these findings promptly to enhance the security and trustworthiness of the smart contract code.

Severity	Found	Pending	Resolved
Critical	0	0	0
High	0	0	0
Medium	1	0	1
Low	0	0	0
Informational	0	0	0
Total	1	0	1

In a smart contract, a technical finding summary refers to a compilation of identified issues or vulnerabilities discovered during a security audit. These findings can range from coding errors and logical flaws to potential security risks. It is crucial for the project owner to thoroughly review each identified item and take necessary actions to resolve them. By carefully examining the technical finding summary, the project owner can gain insights into the weaknesses or potential threats present in the smart contract. They should prioritize addressing these issues promptly to mitigate any risks associated with the contract's security. Neglecting to address any identified item in the security audit can expose the smart contract to significant risks. Unresolved vulnerabilities can be exploited by malicious actors, potentially leading to financial losses, data breaches, or other detrimental consequences. To ensure the integrity and security of the smart contract, the project owner should engage in a comprehensive review process. This involves understanding the nature and severity of each identified item, consulting with experts if needed, and implementing appropriate fixes or enhancements. Regularly updating and maintaining the smart contract's codebase is also essential to address any emerging security concerns. By diligently reviewing and resolving all identified items in the technical finding summary, the project owner can significantly reduce the risks associated with the smart contract and enhance its overall security posture.

SOCIAL MEDIA CHECKS | Andy Alter Ego.

Social Media	URL	Result
Website	https://badcat-eth.com/	Pass
Telegram	https://t.me/andyaltego	Pass
Twitter	https://twitter.com/BadCatAndyEth?s=11&t=V2kvbX053CfL6lu	Pass
Facebook		N/A
Reddit	N/A	N/A
Instagram	N/A	N/A
CoinGecko	N/A	N/A
Github		N/A
CMC	N/A	N/A
Email	team@badcat-eth.com	Contact
Other		N/A

From a security assessment standpoint, inspecting a project's social media presence is essential. It enables the evaluation of the project's reputation, credibility, and trustworthiness within the community. By analyzing the content shared, engagement levels, and the response to any security-related incidents, one can assess the project's commitment to security practices and its ability to handle potential threats.

Social Media Information Notes:

Auditor Notes: Website needs a bit of improvement.

Project Owner Notes:

ASSESSMENT RESULTS | Andy Alter Ego.

Score Results

Review	Score
Overall Score	100/100
Auditor Score	80/100

Review by Section	Score
Manual Scan Score	44
SWC Scan Score	37
Advance Check Score	30

Our security assessment or audit score system for the smart contract and project follows a comprehensive evaluation process to ensure the highest level of security. The system assigns a score based on various security parameters and benchmarks, with a passing score set at 80 out of a total attainable score of 100. The assessment process includes a thorough review of the smart contracts codebase, architecture, and design principles. It examines potential vulnerabilities, such as code bugs, logical flaws, and potential attack vectors. The evaluation also considers the adherence to best practices and industry standards for secure coding. Additionally, the system assesses the project's overall security measures, including infrastructure security, data protection, and access controls. It evaluates the implementation of encryption, authentication mechanisms, and secure communication protocols. To achieve a passing score, the smart contract and project must attain a minimum of 80 points out of the total attainable score of 100. This ensures that the system has undergone a rigorous security assessment and meets the required standards for secure operation.



Important Notes for BADCAT

- Ownership: Renounced, no owner privileges.
- Trading Controls: Removed, no buy/sell limits.
- Anti-Bot Measures: Ineffective due to renounced ownership and removed limits.
- Taxation: No longer applicable, tax has been set to 0.
- Compliance: Follows ERC-20 standard.
- Safety Checks: Uses SafeMath for arithmetic operations, However, is no longer needed after 0.8.X version.
- Liquidity: Sent to a dead wallet, making it inaccessible.
- Code Quality: Standard implementation with additional features now disabled.
- Overall Classification: Permissionless, Non-Taxable, and Fixed Liquidity ERC-20 Token
- Score: 80/100
 - Points awarded for standard compliance, safety checks, non-taxable status, and fixed liquidity which prevents rug pulls.
 - Points deducted for immutability due to renounced

ownership, which means no adaptability to future changes or issues. ■

- Conclusion: The "BADCAT" token is a permissionless ERC-20 token with no taxation and locked liquidity, as the liquidity has been sent to a dead wallet. This action typically aims to provide assurance to token holders that the liquidity cannot be removed by the developers, reducing the risk of a rug pull. However, the token is now completely immutable with no possibility of future updates, improvements, or changes in strategy. Users should engage with the token as is, with the understanding that the smart contract's functionality is set in stone. ■
- A large number of tokens are in circulation, this can negatively impact the liquidity.

Auditor Score =80

Audit Passed



I 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 invokeable 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 require statements 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

The purpose of this disclaimer is to outline the responsibilities and limitations of the security assessment and smart contract audit conducted by Bladepool/CFG NINJA. By engaging our services, the project owner acknowledges and agrees to the following terms:

1. Limitation of Liability: Bladepool/CFG NINJA shall not be held liable for any damages, losses, or expenses incurred as a result of any contract malfunctions, vulnerabilities, or exploits discovered during the security assessment and smart contract audit. The project owner assumes full responsibility for any consequences arising from the use or implementation of the audited smart contract.

2. No Guarantee of Absolute Security: While Bladepool/CFG NINJA employs industry-standard practices and methodologies to identify potential security risks, it is important to note that no security assessment or smart contract audit can provide an absolute guarantee of security. The project owner acknowledges that there may still be unknown vulnerabilities or risks that are beyond the scope of our assessment.

3. Transfer of Responsibility: By engaging our services, the project owner agrees to assume full responsibility for addressing and mitigating any identified vulnerabilities or risks discovered during the security assessment and smart contract audit. It is the project owner's sole responsibility to ensure the proper implementation of necessary security measures and to address any identified issues promptly.

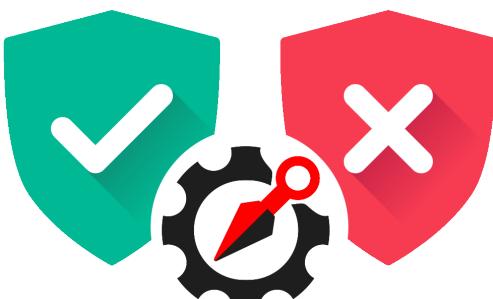
4. Compliance with Applicable Laws and Regulations: The project owner acknowledges and agrees to comply with all applicable laws, regulations, and industry standards related to the use and implementation of smart contracts. Bladepool/CFG NINJA shall not be held responsible for any non-compliance by the project owner.

5. Third-Party Services: The security assessment and smart contract audit conducted by Bladepool/CFG NINJA may involve the use of third-party tools, services, or technologies. While we exercise due diligence in selecting and utilizing these resources, we cannot be held liable for any issues or damages arising from the use of such third-party services.

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By engaging our services, the project owner acknowledges and accepts these terms and releases Bladepool/CFG NINJA from any liability, claims, or damages arising from the security assessment and smart contract audit. It is recommended that the project owner consult legal counsel before entering into any agreement or contract.



**CFG NINJA
AUDITS**