OXSCANS

GROK

AI Generated at 05:55 PM, UTC

February 11, 2024

OVERVIEW

This audit has been perpared for 'GROK' to review the main aspects of the project to help investors make an informative decision during their research process

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

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

Table of Content

General Information

GROK

Xai's first product is Grok, a system with a byte of humour.

Name	GROK
Direction	Elon Musk-Inspired Coins, Ethereum Ecosystem
Info	Website, Telegram Bot

General Information

Tokenomics

Ticker	0X8390A1DA07E376EF7ADD4BE859BA74FB83AA02D5
Network	ethereum
Contract Address	0x8390a1da07e376ef7add4be859ba74fb83aa02d5

General Analysis

Audit Review Process

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

Token Transfer Stats

Transactions (Latest Mine Block)	Token holders	Compiler
1	16630	v0.8.20

Smart Contract Stats

Functions	Events	Constructor
20	4	1

Detail Analysis

Threat Level

High	Issues on this level are critical to the smart contract's performace/functionality and should be fixed before moving to a live enviroment
Medium	Issues on this level are critical to the smart contract's performace/functionality and should be fixed before moving to a live enviroment
Low	Issues on this level are minor details and warning that can remain unfixed
Informational	Informational level is to offer suggestions for improvement of efficacy or secruity for fratures with risk free factor

Threat Level

High	**6** threats found
Medium	**0** threats found
Low	**1** threats found
Informational	**1** threats found

Detail Analysis

Vulnerability Check

14 Passed | 7 Fail

- Arbitrary Jump/Storage Write
- Centralization of Control
- Compiler Issues
- Delegate Call to Untrusted Contract
- Dependence on Predictable Variables
- Ether/Token Theft
- Flash Loans
- Front Running
- Improper Events
- Improper Authorization Scheme
- Integer Over/Underflow
- Logical Issues
- Oracle Issues
- Outdated Compiler Version
- Race Conditions
- Reentrancy
- Signature Issues
- Sybil Attack
- Unbounded Loops
- Unused Code
- Overall Contract Safety

Detail Analysis

Detail Analysis

14 Passed 7 Fail

CATEGORY	STATUS	NOTES
Arbitrary Jump/Storage Write	●	The contract does not exhibit arbitrary jumps or storage writes, as it adheres to standard Solidity development patterns.
Centralization of Control	●	The contract contains centralized control mechanisms, as seen in the Ownable contract, which gives significant control to the owner.
Compiler Issues	●	Compiled with a recent Solidity version (0.8.20) with no apparent compiler-specific issues.
Delegate Call to Untrusted Contract	●	There is no use of delegatecall to an untrusted contract, mitigating risks associated with delegate calls.
Dependence on Predictable Variables	●	The contract does not rely on variables like block.timestamp or block.number in a way that affects core functionalities or security.

Detail Analysis

Detail Analysis

14 Passed

7 Fail

CATEGORY	STATUS	NOTES
Ether/Token Theft	●	No functions are present that directly transfer Ether or tokens to arbitrary addresses in an unauthorized manner.
Flash Loans	●	The contract does not interact with flash loan functions, making it unaffected by flash loan attacks.
Front Running	●	The contract might be susceptible to front-running attacks, as it does not implement anti-front-running measures.
Improper Events	●	All critical functions emit events correctly, providing transparency and traceability.
Improper Authorization Scheme	●	The contract's authorization scheme is potentially risky due to centralization, relying heavily on the owner.
Integer Over/Underflow	●	SafeMath library is used consistently for arithmetic operations, mitigating risks of overflows and underflows.

Detail Analysis

Detail Analysis

14 Passed

7 Fail

CATEGORY	STATUS	NOTES
Logical Issues	●	No apparent logical issues or inconsistencies in the contract logic.
Oracle Issues	●	The contract does not interact with oracles, thus not exposing it to oracle-related risks.
Outdated Compiler Version	●	The contract uses a recent Solidity compiler version (0.8.20), which is not outdated.
Race Conditions	●	The contract may be vulnerable to race conditions, such as the same block transactions in the 'openTrading' function.
Reentrancy	●	The contract's functions are structured in a way that avoids reentrancy vulnerabilities.
Signature Issues	●	The contract does not rely on external signatures, hence is not exposed to signature-related risks.

Detail Analysis

Detail Analysis

14 Passed

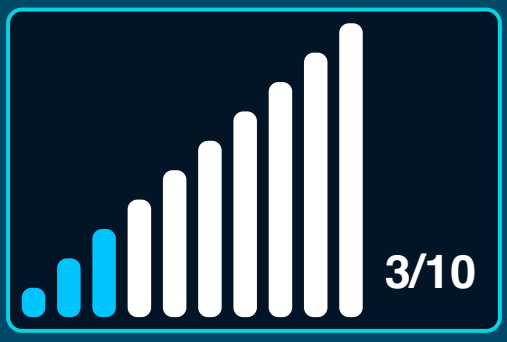
7 Fail

CATEGORY	STATUS	NOTES
Sybil Attack		The nature of the contract does not make it susceptible to Sybil attacks.
Unbounded Loops		The contract contains loops that could potentially run out of gas, for example in 'addBots' and 'delBots' functions.
Unused Code		The contract contains unused code, which increases the attack surface and can lead to confusion and potential vulnerabilities.
Overall Contract Safety		Despite following some best practices, the contract contains several risks related to centralization, potential race conditions, and unused code, requiring attention for overall safety.

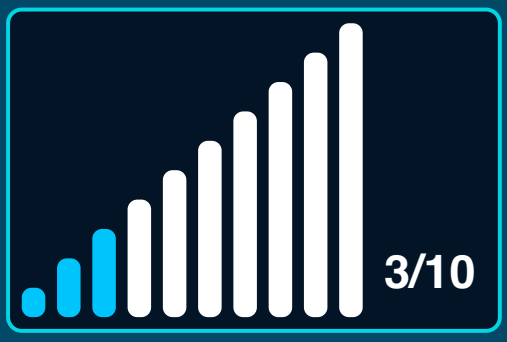
Market Analysis

Score

Total Audit Score



Security Score



Legal Disclaimer

0xscans operates as an automated system for smart contract due diligence, acknowledging the possibility of bugs or vulnerabilities impacting token values. We do not hold specific obligations regarding your trading outcomes or the utilization of audit content. Users release 0xscans from any liability associated with content obtained through the tool.

AI generated by 0xscans AI technology

Chat with us

Telegram

For more information. Visit below:

Twitter

Github