SKELETONECOSYSTEM SMART CONTRACT AUDIT



GROK extreme extreme BEP 20

0xa64ab069ea36cd33da27503776a679f4e393a232







Table of Contents

Table of Contents	1
Disclaimer	2
Overview	3
Creation/Audit Date	3
Verified Socials	3
Contract Functions Analysis	4
Contract Safety and Weakness	8
Detected Vulnerability Description	11
Contract Flow Graph	12
Contract Interaction Graph	13
Inheritance Graph	14
Contract Desciptions	15
Audit Scope	19



Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

Limited Scope: The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safaty and can not detect common scam methods like farming and developer sell-out.

No Guarantee of Security: While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

Continued Development: Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract postaudit may introduce new risks that were not present during the audit.

Third-party Code: If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

Non-Exhaustive Testing: The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

Risk Evaluation: The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

Not Financial Advice: This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.



Overview

Contract Name	GROK eXtreme
Ticker/Simbol	eXtreme
Blockchain	Binance Smart Chain BEP20
Contract Address	0xa64ab069ea36cd33da27503776a679f4e393a232
Creator Address	0xC1Ad3bDb9C075d3d620CE517fC8EeAB41F80f9Bc
Current Owner Address	0xC1Ad3bDb9C075d3d620CE517fC8EeAB41F80f9Bc
Contract Explorer	hhttps://bscscan.com/token/0xa64ab069ea36cd33da27503776a6 79f4e393a232#code
Compiler Version	v0.8.19+commit.7dd6d404
License	MIT
Optimisation	Yes with 200 Runs
Total Supply	800,000,000 eXtreme
Decimals	9

Creation/Audit

Contract Deployed	05 Dec 2023
Audit Created	06 Dec 2023
Audit Update	V 1.0

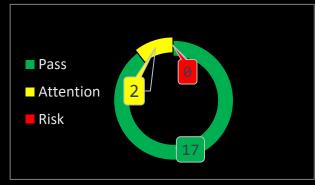
Verified Socials

Website	https://www.grokextreme.com/
Telegram	https://t.me/GROKeXtreme
Twitter (X)	https://twitter.com/GROKeXtreme

Contract Function Analysis

Pass Attention Item Alsky Item





Contract Verified	✓	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0xC1Ad3bDb9C075d3d620CE517fC8EeAB41F80f9Bc
Buy Tax	10%	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Sell Tax	10%	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Honeypot Analyse	✓	Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liqudity Status		Presale status
Trading	~	No Trading suspendable function found.
Disable Functions		If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used
Set Fees function	>	No Fee Setting function found. The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).
Proxy Contract	✓	Not a proxy contract!
Mint	✓	No Mint Function detected
Function		Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell.



Balance Modifier Function	✓	No Balance Modifier function found. If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but it's disappearing from your wallet.
Blacklist		No Blacklist Setting function found.
Function	>	If there is a blacklist, some addresses may not be able to trade normaly. Example: you buy the token and right after your Wallet getting blacklisted. Like so you will be unable to sell. Honeypot Risk.
Whitelist	A	Whitelist Setting function found
Function		If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)
Hidden		No Hidden or multi owner with authorisation
Owner Analysis	>	For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.
Retrieve Ownership Function	>	No Functions found which can retrieve ownership of the contract. If this function exists, it is possible for the project
		owner to regain ownership even after relinquishing it. Also known as fake renounce.
Self	~	No Self Destruct function found.
Destruct Function		If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.
Specific		No Specific Tax Changing Functions found.
Tax Changing Function		If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!
Trading Cooldown Function	>	No Trading Cooldown Function found. If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.
Max	Λ	Max Transaction and Holding Modify function found.
Transaction and Holding Modify Function	A	If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot
Transaction	~	No Transaction Limiter Function Found.
Limiting Function		The number of overall token transactions may be limited (honeypot risk)



Details of Risk - Attention Items



Mhitelist Function

If there is a function for this, Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)

```
if(!_isExcludedFromFee[fromt] && !_isExcludedFromFee[tot] && !swapping){
                     require(amount) <= TopBuyAmount, "You are exceeding TopBuyAmount");
395
                  if(tot != pair){
                      require(balanceOf(tot) + amount1 <= TopBalance, "You are exceeding TopBalance");
```

Max Transaction and Holding Modify Function

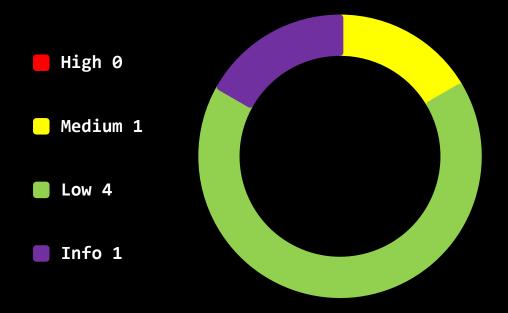
If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot

```
function updateTopBalance(uint256 amount1) external onlyOwner{
502
             TopBalance = amount * 10**_decimals;
          function updateTopBuyAmt(uint256 amount†) external onlyOwner{
              TopBuyAmount = amount1 * 10**_decimals;
```



Contract Security

Total Findings: 6



- **High Severity Issues:** High possibility to cause problems, need to be resolved.
- Medium Severity Issue: Will likely cause problems, recommended to resolve.
- Low Severity Issues: Won't cause problems, but for improvement purposes could be adjusted.
- Informational Severity Issues: Not harmful in any way,
 information for the developer team.



Contract Security List of Found Issues

- High severity Issues: (0)
- Medium severity issues: (1)
 - Unchecked Array Lenght
- Low severity issues: (4)
 - Missing Events
 - Long Number Literals
 - Floating Pragma
 - Outdated Compiler Version
- Informational severity issues: (1)
 - Public Functions Should be Declared External (gas)



Contract Weakness Classisication

THE SMART CONTRACT WEAKNESS CLASSIFICATION REGISTRY (SWC REGISTRY) IS AN IMPLEMENTATION OF THE WEAKNESS CLASSIFICATION SCHEME PROPOSED IN EIP-1470. IT IS LOOSELY ALIGNED TO THE TERMINOLOGIES AND STRUCTURE USED IN THE COMMON WEAKNESS ENUMERATION (CWE) WHILE OVERLAYING A WIDE RANGE OF WEAKNESS VARIANTS THAT ARE SPECIFIC TO SMART CONTRACTS.

ID	Description	AI	Manual	Result
SWC-100	Function Default Visibility	Passed	Passed	Passed
SWC-101	Integer Overflow and Underflow	Passed	Passed	Passed
SWC-102	Outdated Compiler Version	Passed	Passed	Passed
SWC-103	Floating Pragma	Low	Passed	Passed
SWC-104	Unchecked Call Return Value	Passed	Passed	Passed
SWC-105	Unprotected Ether Withdrawal	Passed	Passed	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed	Passed	Passed
SWC-107	Reentrancy	Passed	Passed	Passed
SWC-108	State Variable Default Visibility	Passed	Passed	Passed
SWC-109	Uninitialized Storage Pointer	Passed	Passed	Passed
SWC-110	Assert Violation	Passed	Passed	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed	Passed	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed	Passed	Passed
SWC-113	DoS with Failed Call	Passed	Passed	Passed
SWC-114	Transaction Order Dependence	Passed	Passed	Passed
SWC-115	Authorization through tx.origin	Passed	Passed	Passed
SWC-116	Block values as a proxy for time	Passed	Passed	Passed
SWC-117	Signature Malleability	Passed	Passed	Passed
SWC-118	Incorrect Constructor Name	Passed	Passed	Passed
SWC-119	Shadowing State Variables	Passed	Passed	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed	Passed	Passed



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



Detected High and Medium Severity Vulnerability Description.

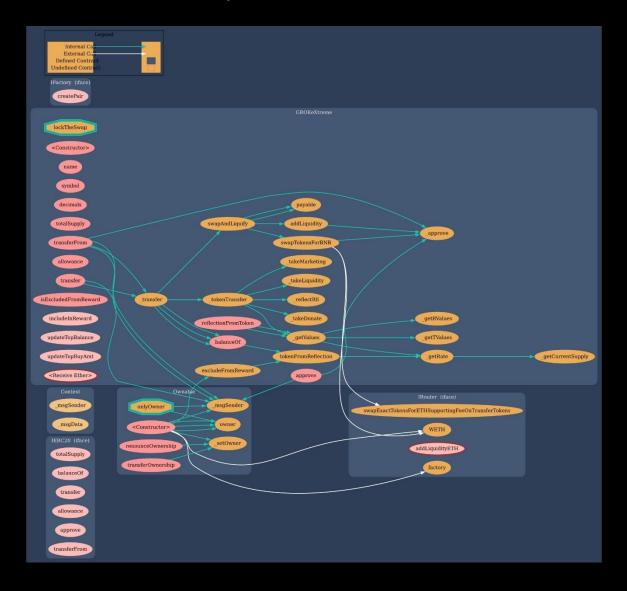
⚠ Unchecked Array Lenght(1 Item)

Item: 1	Location:	Line 2/6	Severity:	Medium

Function	Ethereum is a very resource-constrained environment. Prices per computational step are orders of magnitude higher than with centralized providers. Moreover, Ethereum miners impose a limit on the total number of Gas consumed in a block. If array.length is large enough, the function exceeds the block gas limit, and transactions calling it will never be confirmed. for (uint256 i = 0; i < array.length; i++) { cosltyFunc(); }
	This becomes a security issue if an external actor influences array.length. E.g., if an array enumerates all registered addresses, an adversary can register many addresses, causing the problem described above.
Remedation	Either explicitly or just due to normal operation, the number of iterations in a loop can grow beyond the block gas limit, which can cause the complete contract to be stalled at a certain point. Therefore, loops with a bigger or unknown number of steps should always be avoided.



Contract Flow Graph



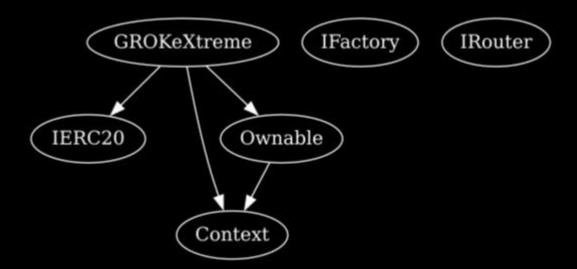


Contract Interaction Graph





Inheritance Graph





Contract Functions

Contract	Туре	Bases			
L	Function Name	Visibility	Mutability	Modifiers	
IERC20	Interface				
L	totalSupply	External 🌡		NOÏ	
L	balanceOf	External 🌡		NO[
L	transfer	External 🌡		NO[
L	allowance	External 🌡		NO[
L	approve	External 🌡		NO[
L	transferFrom	External 🏻		NO[
Context	Implementation				
L	_msgSender	Internal 🖺			
L	_msgData	Internal 🖺			
Ownable	Implementation	Context			
L		Public 🌡		NO[
L	owner	Public 🌡		NO	
L	renounceOwner ship	Public 🌡		onlyOwner	
L	transferOwners hip	Public 🌡		onlyOwner	
L	_setOwner	Private 🖺			
IFactory	Interface				
L	createPair	External 🏻		NO[



Contract	Туре	Bases		
IRouter	Interface			
L	factory	External 🌡		NO
L	WETH	External 🌡		NO
L	addLiquidityETH	External 🌡	<u>CD</u>	NO
L	swapExactToke nsForETHSuppo rtingFeeOnTran sferTokens	External 🌡		NO[
GROKeXtreme	Implementation	Context, IERC20, Ownable		
L		Public 🌡		NO
L	name	Public 🌡		NO[
L	symbol	Public 🌡		NO
L	decimals	Public 🌡		NO[
L	totalSupply	Public 🎚		NO[
L	balanceOf	Public 🎚		NO[
L	transfer	Public 🌡		NO[
L	allowance	Public 🌡		NO[
L	approve	Public 🌡		NO
L	transferFrom	Public 🌡		NO
L	isExcludedFrom Reward	Public 🌡		NO[
L	reflectionFromT oken	Public 🌡		NO[



Contract	Туре	Bases		
L	tokenFromRefle ction	Private 🖺		
L	excludeFromRe ward	Public 🌡		onlyOwner
L	includeInRewar d	External 🌡		onlyOwner
L	_reflectRfi	Private 🖺		
L	_takeLiquidity	Private 🖺		
L	_takeMarketing	Private 🖺		
L	_takeDonate	Private 🖺		
L	_getValues	Private 🖺		
L	_getTValues	Private 🖺		
L	_getRValues	Private 🖺		
L	_getRate	Private 🖺		
L	_getCurrentSup ply	Private 🖺		
L	_approve	Private 🖺		
L	_transfer	Private 🖺		
L	_tokenTransfer	Private 🖺		
L	swapAndLiquify	Private 🖺		lockTheSwap
L	addLiquidity	Private 🖺		
L	swapTokensFor BNB	Private 🖺		
L	update Top Bala nce	External 🌡		onlyOwner



Contract	Туре	Bases		
L	updateTopBuyA mt	External 🌡		onlyOwner
L		External 🌡	<u>a'b</u>	NO

Function Function can modify is payable



Audit Scope

Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnaribilities in the code. Findings getting reported and improvements getting suggested.

Automatic and Manual Review

We are using automated tools to scan functions and weeknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

Tools we use:

Visual Studio Code CWE SWC Solidity Scan SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

Skeleton Ecosystem

nttps://skeletonecosystem.com

https://github.com/SkeletonEcosystem/Audits

