

SKELETON ECOSYSTEM

SMART CONTRACT AUDIT



Eternity Blockchain
[\$ETER]
BEP 20

0x204F2BbD381A0061572B289f15a51a1B9df20cE8



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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% safety 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 post-audit 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	EternityCoin
Ticker/Symbol	ETER
Blockchain	Binance Smart Chain BEP20
Contract Address	0x204F2BbD381A0061572B289f15a51a1B9df20cE8
Creator Address	0x5383c4FE06f1aFd7D2a3e98D1886CcA6e6c33980
Current Owner Address	0x5383c4FE06f1aFd7D2a3e98D1886CcA6e6c33980
Contract Explorer	https://bscscan.com/token/0x204f2bbd381a0061572b289f15a51a1b9df20ce8
Compiler Version	v0.8.7+commit.e28d00a7
License	Unlicensed
Optimisation	Yes with 200 Runs
Total Supply	100,000,000 ETER
Decimals	18




Creation/Audit




Contract Deployed	09 Nov 2023
Audit Created	15 Nov 2023
Audit Update	V 1.0

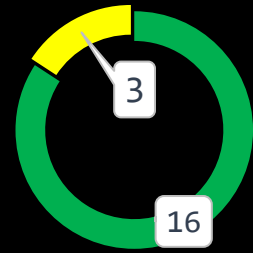
Verified Socials








Website	https://eternitycoin.net/
Telegram	https://t.me/eternityblockchain
Twitter (X)	https://twitter.com/Eternity_Chain

Contract Function Analysis

 Pass
  Attention Item
  Risky Item

 Pass
 Attention
 Risky



Contract Verified		The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0x5383c4FE06f1aFd7D2a3e98D1886CcA6e6c33980
Buy Tax	8 %	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	8 %	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
Liquidity Status		Liquidity Locker status 14.11.2023: 99% Lock on Unicrypt Lp token locker for 361 Days
Trading Disable Functions		No Trading suspendable function found. 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		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 Function		No Mint Function detected 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		<p>No Balance Modifier function found.</p> <p>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.</p>
Blacklist Function		<p>No Blacklist Setting function found.</p> <p>If there is a blacklist, some addresses may not be able to trade normally. Example: you buy the token and right after your Wallet getting blacklisted. Like so you will be unable to sell. Honeypot Risk.</p>
Whitelist Function		<p>Whitelist Setting function found.</p> <p>If there is a function for this Developer can set zero fee or no max wallet size for addresses (for example team wallets can trade without fee. Can cause farming)</p>
Hidden Owner Analysis		<p>No hidden or multi owner</p> <p>For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.</p>
Retrieve Ownership Function		<p>No functions found which can retrieve ownership of the contract.</p> <p>If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.</p>
Self Destruct Function		<p>No Self Destruct function found.</p> <p>If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.</p>
Specific Tax Changing Function		<p>No Specific Tax Changing Functions found.</p> <p>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!</p>
Trading Cooldown Function		<p>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.</p>
Max Transaction and Holding Modify Function		<p>Max Transaction and Holding Modify function found.</p> <p>If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot</p>
Transaction Limiting Function		<p>No Transaction Limiter Function Found.</p> <p>The number of overall token transactions may be limited (honeypot risk)</p>

Details of Risk - Attention Items

⚠ Set Fee (remediation: renounce ownership)

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

```

398     uint256 public maxPossibleFee = 40;
399     uint256 private _TotalFee = 40;
400     uint256 public TaxBuyCoin_ = 20;
401     uint256 public _sellFee = 20;
402     uint256 private _previousTotalFee = _TotalFee;
403     uint256 private _previousBuyFee = TaxBuyCoin_;
404     uint256 private _previousSellFee = _sellFee;

515     ftrace | funcSig
516     function _taxSet(uint256 _taxBuy!, uint256 _taxSell!) external onlyOwner() {
517         require((_taxBuy! + _taxSell!) <= maxPossibleFee, "Fee is too high!");
518         _sellFee = _taxSell!;
519         TaxBuyCoin_ = _taxBuy!;
520
521     }
  
```

⚠ Whitelist (Set excluded) (remediation: renounce ownership)

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)

```

503     ftrace | funcSig
504     function excludeTax(address account!) public onlyOwner {
505         _ExcludeFromTax[account!] = true;
506     }
  
```

⚠ Max Transaction and Holding Modify Function (remediation: renounce ownership)

Max Transaction and Holding Modify function found.
 If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot

```

555     ftrace | funcSig
556     function setMax_Wallet(uint256 maxWallPercent_x100!) external onlyOwner() {
557         maxWalletCoin = _tTotal*maxWallPercent_x100!/10000;
558     }
  
```

Contract Security

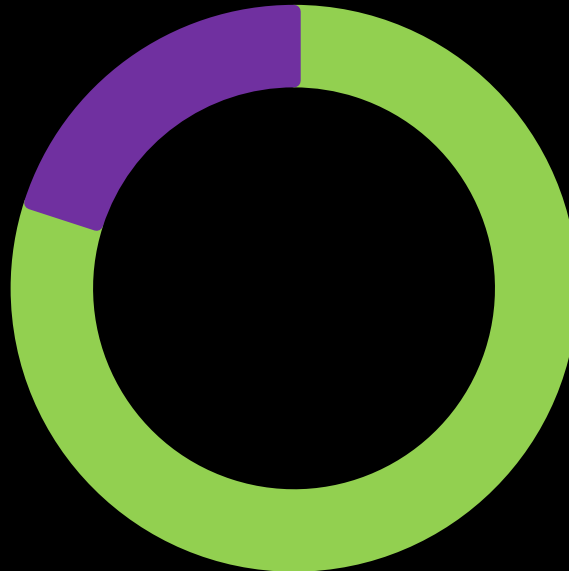
Total Findings: 5


 High 0


 Medium 0


 Low 4


 Info 1



 **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 Weakness Classification

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.

 **High severity Issues: (0)**

 **Medium severity issues: (0)**

 **Low severity issues: (4)**

- Missing Events
- Outdated Compiler Version
- Floating Pragma
- Long Number Literals

 **Informational severity issues: (1)**

- Public Functions Should be Declared External

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	Low	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	low	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.



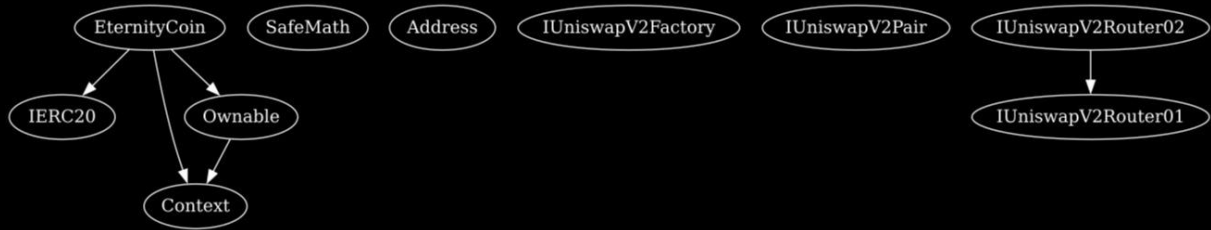
No High and medium severity issues found

[illegible]





























Contract Interaction Graph















































Inheritance Graph












































Contract Functions

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
L	totalSupply	External 		NO 
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 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L	_setOwner	Private 		
SafeMath	Library			
L	sub	Internal 		

IUniswapV2Router01	Interface			
L	factory	External 		NO 
L	WETH	External 		NO 
L	WETC	External 		NO 
L	WHT	External 		NO 
L	WROSE	External 		NO 
L	WAVAX	External 		NO 
L	addLiquidity	External 		NO 
L	addLiquidityETH	External 		NO 
L	addLiquidityAVAX	External 		NO 
L	addLiquidityETC	External 		NO 
L	addLiquidityROSE	External 		NO 
L	swapExactETHForTokens	External 		NO 
IUniswapV2Router02	Interface	IUniswapV2Router01		
L	swapExactTokensForETCSupportingFeeOnTransferTokens	External 		NO 
L	swapExactTokensForAVAXSupportingFeeOnTransferTokens	External 		NO 
L	swapExactTokensForROSESupportingFeeOnTransferTokens	External 		NO 

	ortingFeeOnTransferTokens			
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External ⓘ		NO ⓘ
IUniswapV2Factory	Interface			
L	createPair	External ⓘ		NO ⓘ
BaseToken	Implementation			
CoinscopeBuyback	Implementation			
L	coinscopeBuyback	Internal 🔒		
LiquidityGeneratorToken	Implementation	IERC20, Ownable, BaseToken, CoinscopeBuyback		
L		Public ⓘ		NO ⓘ
L	getNativeCurrency	Internal 🔒		
L	name	External ⓘ		NO ⓘ
L	symbol	External ⓘ		NO ⓘ
L	decimals	External ⓘ		NO ⓘ
L	totalSupply	External ⓘ		NO ⓘ
L	balanceOf	Public ⓘ		NO ⓘ
L	transfer	External ⓘ		NO ⓘ

L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
L	increaseAllowance	External 		NO 
L	decreaseAllowance	External 		NO 
L	isExcludedFromReward	External 		NO 
L	totalFees	External 		NO 
L	deliver	External 		NO 
L	reflectionFromToken	External 		NO 
L	tokenFromReflection	Public 		NO 
L	excludeFromReward	External 		onlyOwner
L	includeInReward	External 		onlyOwner
L	_transferBothExcluded	Private 		
L	excludeFromFee	External 		onlyOwner
L	includeInFee	External 		onlyOwner
L	setTaxFeePercent	External 		onlyOwner
L	setLiquidityFeePercent	External 		onlyOwner
L	setTeamFeePercent	External 		onlyOwner

L	setTeamAddresses	External !		onlyOwner
L	validateTaxes	Internal 		
L	setSwapAndLiquifyEnabled	External !		onlyOwner
L	setTokenSellToLiquify	External !		onlyOwner
L		External !		NO!
L	_getValues	Private 		
L	_getTValues	Private 		
L	_getRValues	Private 		
L	_getRate	Private 		
L	_getCurrentSupply	Private 		
L	_takeLiquidity	Private 		
L	_takeTeamFee	Private 		
L	_reflectFee	Private 		
L	calculateTaxFee	Private 		
L	calculateLiquidityFee	Private 		
L	calculateTeamFee	Private 		
L	removeAllFee	Private 		
L	restoreAllFee	Private 		
L	getIsExcludedFromFee	Public !		NO!
L	_approve	Private 		

L	_transfer	Private 		
L	swapAndLiquify	Private 		lockTheSwap
L	swapTokensForEth	Private 		
L	addLiquidity	Private 		
L	_tokenTransfer	Private 		
L	_transferStandard	Private 		
L	_transferToExcluded	Private 		
L	_transferFromExcluded	Private 		



Function
can modify
state



Function
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 vulnerabilities in the code. Findings getting reported and improvements getting suggested.

Automatic and Manual Review

We are using automated tools to scan functions and weaknesses 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

<https://skeletonecosystem.com>

<https://github.com/SkeletonEcosystem/Audits>

