



0x1c9A6a1b78528B3726362fb9D79497544B1D







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	7
Detected Vulnerability Description	11
Contract Flow Graph	13
Contract Interaction Graph	14
Inheritance Graph	15
Contract Desciptions	16
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 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	KAPS
Ticker/Simbol	KAPS
Blockchain	Binance Smart Chain BEP20
Contract Address	0x1c9A6a1b78528B3726362fb9D79497544B1D5e77
Creator Address	0x08D318df4De006bEB746378F4bf91AF098955766
Current Owner Address	0x08D318df4De006bEB746378F4bf91AF098955766
Contract Explorer	https://bscscan.com/address/0x1c9A6a1b78528B372 6362fb9D79497544B1D5e77#code
Compiler Version	v0.8.7+commit.e28d00a7
License	None
Optimisation	No with 200 Runs
Total Supply	50,000,000 KAPS
Decimals	18

Creation/Audit

Contract Deployed	31.10.2022
Audit Created	26.04.2024
Audit Update	V 1.0

Verified Socials

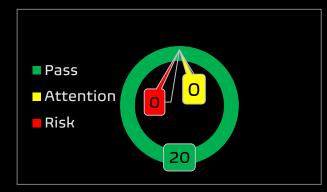
Website	https://twitter.com/KapsNews
Telegram	https://t.me/kapstalkportal
Twitter (X)	https://xnkaps-4g73c.news/



Contract Function Analysis

Pass Attention Item A Risky Item

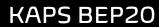




Contract Verified	>	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0x08D318df4De006bEB746378F4bf91AF098955766 Deployer
Виу Тах	1 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Sell Tax	1 %	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	✓	Liqudity status on 25.04.2024 Lp Locked: 100% Mudra Locker for <i>343 days.</i>
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	✓	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 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	✓	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 Function		No Blacklist Setting function found.
Function	✓	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.
Whitelist Function	✓	No Whitelist Setting function found
		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 Owner		No Hidden or multi owner with authorisation
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 Destruct	✓	No Self Destruct function found.
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 Tax	✓	No Specific Tax Changing Functions found.
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	✓	No Max Transaction and Holding Modify function found.
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
Transaction	~	No Transaction Limiter Function Found.
Limiting Function		The number of overall token transactions may be limited (honeypot risk)





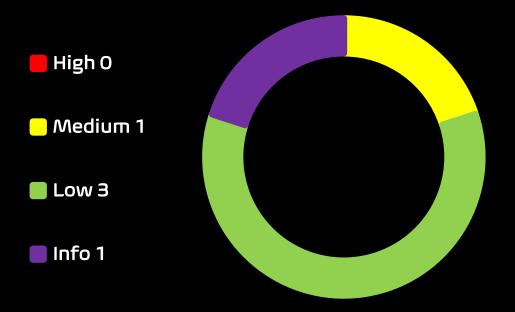
Details of Risk - Attention Items

No Attention / Risk Function item found.



Contract Security

Total Findings: 5



- **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)
 - Incorrect Access Control
- Low severity issues: (3)
 - Long number literals
 - Outdated compiler Version
 - Unchecked Array Lenght
- Informational severity issues: (1)
 - Public Functions Should be Declared External



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

SWC-100Function Default VisibilityPassedPassedSWC-101Integer Overflow and UnderflowPassedPassedSWC-102Outdated Compiler VersionlowPassedSWC-103Floating PragmalowPassedSWC-104Unchecked Call Return ValuePassedPassedSWC-105Unprotected Ether WithdrawalPassedPassedSWC-106Unprotected SELFDESTRUCT InstructionPassedPassed	Result
SWC-102 Outdated Compiler Version Iow Passed SWC-103 Floating Pragma Iow Passed SWC-104 Unchecked Call Return Value Passed Passed SWC-105 Unprotected Ether Withdrawal Passed Passed	Passed
SWC-103 Floating Pragma low Passed SWC-104 Unchecked Call Return Value Passed Passed SWC-105 Unprotected Ether Withdrawal Passed Passed	Passed
SWC-104 Unchecked Call Return Value Passed Passed SWC-105 Unprotected Ether Withdrawal Passed Passed	Passed
SWC-105 Unprotected Ether Withdrawal Passed Passed	Passed
	Passed
SWC-106 Unprotected SELFDESTRUCT Instruction Passed 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.

▲ Incorrect Acces Control (1 Item)

Item: 1	Location:	Line 127-130	Severity:	Medium
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Function	Access control plays an important role in segregation of privileges in smart contracts and other applications. If this is misconfigured or not properly validated on sensitive functions, it may lead to loss of funds, tokens and in some cases compromise of the smart contract.
	The contract BEP20 is importing an access control library @openzeppelin/contracts/access/Ownable.sol but the function transfer is missing the modifier onlyOwner.
Remedation	 Ensure that initialization functions can only be called once and only by authorized entities. Implement least-privilege roles using libraries like OpenZeppelin's Access Control. Add proper access control modifiers to sensitive functions, such as onlyOwner or custom roles.

```
ftrace | funcSig
function transfer(address recipient*, uint256 amount*) external override returns (bool) {
    _transfer(_msgSender(), recipient1, amount1);
   return true;
```



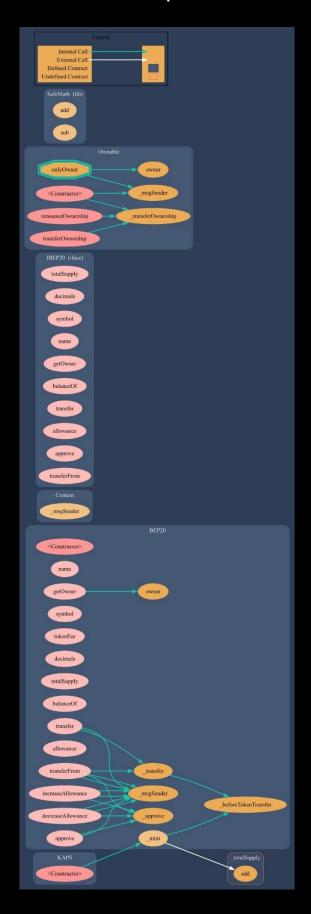
Outdated Compiler Version.

Item: 1	Location:	Line 3	Severity:	Low

Function	Using an outdated compiler version can be problematic especially if there are publicly disclosed bugs and issues that affect the current compiler version. The following outdated versions were detected: IBEP20.sol - ^0.8.7
Remedation	It is recommended to use a recent version of the Solidity compiler that should not be the most recent version, and it should not be an outdated version as well. Using very old versions of Solidity prevents the benefits of bug fixes and newer security checks. Consider using the solidity version v0.8.25, which patches most solidity vulnerabilities.



Contract Flow Graph



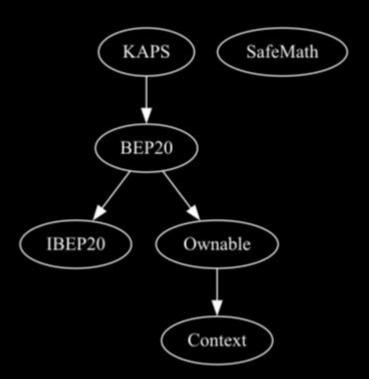


Contract Interaction Graph





Inheritance Graph





Contract Functions

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
BEP20	Implementati on	IBEP20, Ownable		
L		Public 🎚		NO
L	name	External 🎚		ио[
L	getOwner	External 🎚		ио[
L	symbol	External 🌡		ио[
L	tokenFee	External 🌡		Nol
L	decimals	External 🎚		ио[
L	totalSupply	External 🌡		ио[
L	balanceOf	External 🌡		ио[
L	transfer	External [NOI
L	allowance	External [NOI
L	approve	External [МОД
L	transferFrom	External [ио[
L	increaseAllow ance	External [Nol
L	decreaseAllo wance	External [Nol
L	_transfer	Internal 🖺		
L	_mint	Internal 🖺		
L	_approve	Internal 🖺		
L	_beforeToken Transfer	Internal 🖺		



Context	Implementati on		
L	_msgSender	Internal 🖺	
IBEP20	Interface		
L	totalSupply	External 🎚	Мо[
L	decimals	External 🎚	Мо[
L	symbol	External 🎚	Мо[
L	name	External 🎚	Мо[
L	getOwner	External [ПоЛ
L	balanceOf	External 🎚	Мо[
L	transfer	External 🎚	Мо[
L	allowance	External 🎚	Мо[
L	арргоvе	External [No[
L	transferFrom	External 🏻	МО[
KAPS	Implementati on	BEP20	
L		Public 🎚	Noſ
Ownable	Implementati on	Context	
L		Public 🎚	№[
L	owner	Public 🎚	Поſ
L	renounceOwn ership	Public 🏿	onlyOwner
L	transferOwne rship	Public 🏿	only0wner
L	_transfer0wn ership	Internal 🖺	



Safe/Math	Library		
L	add	Internal 🖺	
L	sub	Internal 🖺	

Function Function can modify **1** is payable state



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

https://skeletonecosystem.com

https://github.com/SkeletonEcosystem/Audits

