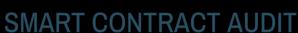
SKELETON ECOSYSTEM







Baby Maga BMAGA BEP20

0x2eB4b89C37F25648dE6e0e416aafD13c17F2F







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	23



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	BABYMAGA
Ticker/Simbol	BMAGA
Blockchain	Binance Smart Chain BEP20
Contract Address	0x2eB4b89C37F25648dE6e0e416aafD13c17F2F046
Creator Address	0x2A77d127FFBA13ffFB6f2a205FdB042547Fc07e1
Current Owner Address	0x000000000000000000000000000000000000
Contract Explorer	https://bscscan.com/token/0x2eB4b89C37F25648dE6e0e416aafD13c17F2F046#code
Compiler Version	v0.8.10+commit.fc410830
License	MIT
Optimisation	Yes with 200 Runs
Total Supply	46,622,316.971608 BMAGA
Decimals	9

Creation/Audit

Contract Deployed	28.02.2024
Audit Created	05.03.2024
Audit Update	V 1.0

Verified Socials

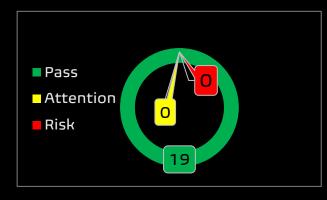
Website	https://baby-maga.xyz
Telegram	https://t.me/baby_maga
Twitter (X)	https://x.com/MAGA_BAB



Contract Function Analysis

Pass Attention Item A Risky Item





Contract	✓	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Verified		is open source, so everybody carried it.
Contract Ownership		0x000000000000000000000000000000000000
Ownership		Sometimes referred to as the "zero address" or "dead address" and is not owned by anyone.
Виу Тах	5 %	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	5 %	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	✓	Liqudity status on 05.03.2024
Status		Lp Locked: 86.71% Pinklock for 366 days.
		Lp Burned: 11.53%
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		No Fee Setting function found.
function	✓	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		No Balance Modifier function found.
Modifier Function		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 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.
T direction		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.
Мах	✓	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

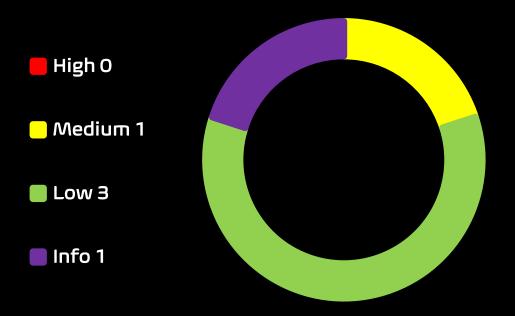
Removing Risk of contract function based on renounced ownership











- **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)
 - Using Extcodesize to check for external accounts
- Low severity issues: (3)
 - Missing Events
 - Long number literals
 - Outdated Compiler Version
- 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

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	Passed	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.

lack Using Extcodesize to check for external accounts. (1 Item)

Item: 1 L	_ocation:	Line 76	Severity:	Medium
-----------	-----------	---------	-----------	--------

Function	extcodesize is used to check if a contract is an externally owned account or another contract. extcodesize returns 0 for externally owned accounts but there's a specific condition here that when an extcodesize check is made to a contract that is still under construction or when the contract's constructor is running, extcodesize for its address returns zero.
	This may give erroneous outputs for checking externally
	owned contracts.
Remedation	It is recommended to manually check and validate at compile-time that the contract/account address being checked inside extcodesize does not return improper values due to the external contract's construction.

```
ftrace | funcSig
function isContract(address account) internal view returns (bool) {
   uint256 size;
    assembly { size := extcodesize(account) }
    return size > 0;
```



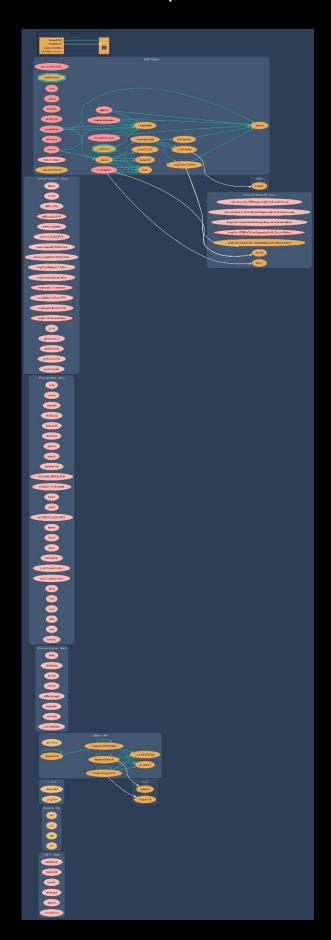
▲ Outdated Compiler Version

Item: 1	Location:	Line 10	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: /bmaga.sol - 0.8.10
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 v0.8.23, which patches most solidity vulnerabilities.

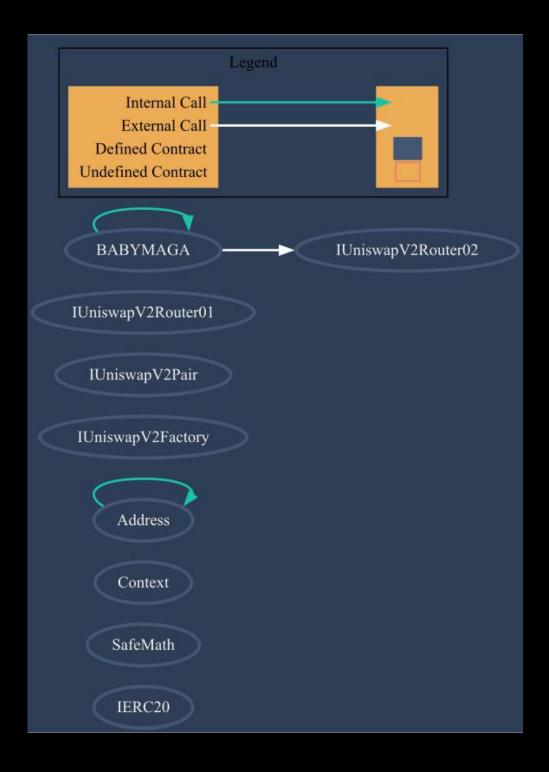


Contract Flow Graph





Contract Interaction Graph





Inheritance Graph





Contract Functions

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
L	totalSupply	External 🎚		Мо[
L	balanceOf	External 🏻		МОД
L	transfer	External 🏻		МОД
L	allowance	External 🏻		МО]
L	арргоvе	External 🏻		иоӀ
L	transferFrom	External 🌡		ПоЛ
Safe/Math	Library			
L	add	Internal 🖺		
L	sub	Internal 🖺		
L	mul	Internal 🖺		
L	div	Internal 🖺		
L	sub	Internal 🖺		
L	div	Internal 🖺		
Context	Implementati on			
L	_msgSender	Internal 🖺		
L	_msgData	Internal 🖺		
Address	Library			



Contract	Туре		Bases	
L	isContract	Internal 🖺		
L	sendValue	Internal 🖺		
L	functionCall	Internal 🖺		
L	functionCall	Internal 🖺		
L	functionCallW ithValue	Internal 🖺		
L	functionCallW ithValue	Internal 🖺		
L	functionStati cCall	Internal 🖺		
L	functionStati cCall	Internal 🖺		
L	functionDeleg ateCall	Internal 🖺		
L	functionDeleg ateCall	Internal 🖺		
L	_verifyCallRes ult	Private 🖺		
IUniswapV2Fa ctory	Interface			
L	feeTo	External 🏻		Nol
L	feeToSetter	External [Nol
L	getPair	External [Nol
L	allPairs	External [Nol
L	allPairsLengt h	External 🎚		Мо[
L	createPair	External 🏻		Мо[



Contract	Туре		Bases	
L	setFeeTo	External 🌡		NO
L	setFeeToSett er	External 🎚		Мо[
IUniswapV2P air	Interface			
L	пате	External 🎚		NOÏ
L	symbol	External 🎚		NO
L	decimals	External 🎚		NO
L	totalSupply	External 🎚		МО[
L	balanceOf	External 🎚		МО[
L	allowance	External 🎚		МОД
L	арргоvе	External 🎚		МОД
L	transfer	External 🎚		МО[
L	transferFrom	External 🎚		МО[
L	DOMAIN_SEP ARATOR	External 🎚		Мо[
L	PERMIT_TYPE HASH	External 🎚		Мо[
L	nonces	External 🎚		МОД
L	permit	External 🎚		МОД
L	MINIMUM_LI QUIDITY	External 🌡		Мо[
L	factory	External 🎚		МОД
L	token0	External 🎚		NO



Contract	Туре		Bases	
L	token1	External [ио[
L	getReserves	External [ио[
L	price0Cumula tiveLast	External 🎚		ПоП
L	price1Cumula tiveLast	External [ПоП
L	kLast	External [ио[
L	burn	External [NO
L	swap	External 🎚		NO
L	skim	External 🎚		NO
L	sync	External 🎚		NO
L	initialize	External 🌡		Nol
IUniswapV2R outer01	Interface			
L	factory	External 🎚		NO
L	WETH	External 🎚		ио[
L	addLiquidity	External 🎚		МО[
L	addLiquidityE TH	External 🎚	GD	Мо[
L	removeLiquid ity	External 🎚		Мо[
L	removeLiquid ityETH	External 🎚		МО[
L	removeLiquid ityWithPermit	External 🎚		Мо[



Contract	Туре		Bases	
L	removeLiquid ityETHWithPe rmit	External 🎚		МОД
L	swapExactTo kensForToken s	External 🎚		МОД
L	swapTokensF orExactToken s	External 🎚		МОД
L	swapExactET HForTokens	External 🎚	d D	Мо[
L	swapTokensF orExactETH	External 🎚		Мо[
L	swapExactTo kensForETH	External 🎚		МОД
L	swapETHForE xactTokens	External 🎚	dp	МОД
L	quote	External 🏻		ио[
L	getAmountOu t	External 🎚		МОД
L	getAmountIn	External 🎚		NO
L	getAmounts0 ut	External 🎚		МоД
L	getAmountsIn	External [Гои
IUniswapV2R outer02	Interface	IUniswapV2R outer01		
L	removeLiquid ityETHSuppor tingFeeOnTra nsferTokens	External 🏻		Nol
L	removeLiquid ityETHWithPe	External 🌡		Nol



Contract	Туре	Bases		
	rmitSupportin gFeeOnTransf erTokens			
L	swapExactTo kensForToken sSupportingF eeOnTransfer Tokens	External 🎚		Nol
L	swapExactET HForTokensS upportingFee OnTransferTo kens	External 🎚	<u>d</u> b	ПоП
L	swapExactTo kensForETHS upportingFee OnTransferTo kens	External 🎚		МО[
BABYMAGA	Implementati on	Context, IERC20		
L	owner	Public 🎚		ио[
L	renounceOwn ership	Public 🎚		ИОД
L		Public 🎚		МО[
L	name	Public 🎚		МОД
L	symbol	Public 🎚		ио[
L	decimals	Public 🎚		ио[
L	totalSupply	Public 🎚		ио[
L	balanceOf	Public 🎚		ио[
L	transfer	Public 🎚		ио[
L	allowance	Public 🎚		Nol



Contract	Туре		Bases	
L	арргоvе	Public 🌡		Мо[
L	transferFrom	Public 🌡		Мо[
L	increaseAllow ance	Public 🏻		Пои
L	decreaseAllo wance	Public 🎚		Мо[
L		External 🎚	<u>d</u> D	ПоЛ
L	_getCurrentS upply	Private 🖺		
L	_арргоvе	Private 🖺		
L	_transfer	Private 🖺		
L	sendToWallet	Private 🖺		
L	swapAndLiqui fy	Private 🖺		lockTheSwap
L	swapTokensF orBNB	Private 🖺		
L	addLiquidity	Private 🖺		
L	_tokenTransf er	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 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

