



Oxc8cc4bBD33264dB465E4c9ea011F895D02505





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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% 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	SORCERY
Ticker/Simbol	SOR
Blockchain	Binance Smart Chain BEP20
Contract Address	0xc8cc4bBD33264dB465E4c9ea011F895D02505959
Creator Address	0xD179861Dd264d4F046aEA5Fce6Ad512B6cADcb73
Current Owner Address	0xD179861Dd264d4F046aEA5Fce6Ad512B6cADcb73
Contract Explorer	https://bscscan.com/address/0xc8cc4bbd33264db46 5e4c9ea011f895d02505959#code
Compiler Version	v0.8.7+commit.e28d00a7
License	MIT
Optimisation	No with 200 Runs
Total Supply	10,000,000 SOR
Decimals	18

Creation/Audit

Contract Deployed	12.03.2024
Audit Created	01.08.2023
Audit Update	V 1.0

Verified Socials

Website	https://sorceryswap.com/
Telegram	https://t.me/sorceryswap
Twitter (X)	https://x.com/sorceryfinance

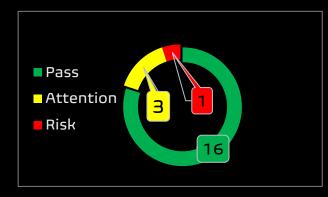


Contract Function Analysis



Pass 🛕 Attention Item 📤 Risky Item





Contract Verified	✓	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0xD179861Dd264d4F046aEA5Fce6Ad512B6cADcb73 Deployer
Buy Tax	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 Status	✓	Liqudity status on 17.05.2024 100% for 107 Days on PinkSale
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	⚠ max 24%	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	✓	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		Blacklist Setting function found.
Function	<u> </u>	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	A	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.
- directori		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	A	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



Set Fee (max 24%)

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).

```
597
          function _set_Fees(uint256 Buy_Feet, uint256 Sell_Feet) external onlyOwner() {
              require((Buy_Feet + Sell_Feet) <= maxPossibleFee, "Fee is too high!");</pre>
               _sellFee = Sell_Feet;
              _buyFee = Buy_Feet;
```

📤 Whitelist

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)

```
2//
          // Set a wallet address so that it does not have to pay transaction fees
          function excludeFromFee(address account() public onlyOwner {
              _isExcludedFromFee[account1] = true;
```

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 set_Max_Transaction_Percent(uint256 maxTxPercent_x1001) external onlyOwner() {
    _maxTxAmount = _tTotal*maxTxPercent_x1001/10000;
// Set the maximum wallet holding (percent of total supply)
function set_Max_Wallet_Percent(uint256 maxWallPercent_x1001) external onlyOwner() {
    _maxWalletToken = _tTotal*maxWallPercent_x100†/10000;
```





Blacklist 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.

```
// Blacklist - block wallets (ADD - COMMA SEPARATE MULTIPLE WALLETS)
function blacklist_Add_Wallets(address[] calldata addressest) external onlyOwner {
   uint256 startGas:
   uint256 gasUsed;
for (uint256 i; i < addressest.length; ++i) {</pre>
   if(gasUsed < gasleft()) {</pre>
   startGas = gasleft();
   if(!_isBlacklisted[addressesf[i]]){
   _isBlacklisted[addresses†[i]] = true;}
   gasUsed = startGas - gasleft();
```

Blocking Transactions by changing Router

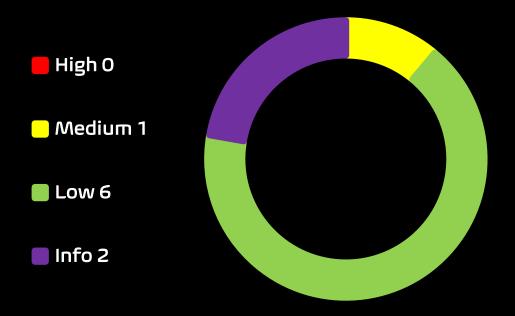
The Router address can be changed, which means the trading can be result in failure, if the router adress can not be found and the transactions can nor run through.

```
ftrace | funcSig
function set_New_Router_and_Make_Pair(address newRouter) public onlyOwner() {
    IUniswapV2Router02 _newPCSRouter = IUniswapV2Router02(newRouter1);
    uniswapV2Pair = IUniswapV2Factory(_newPCSRouter.factory()).createPair(address(this), _newPCSRouter.WETH());
    uniswapV2Router = _newPCSRouter;
ftrace | funcSig
function set_New_Router_Address(address newRouter1) public onlyOwner() {
    IUniswapV2Router02 _newPCSRouter = IUniswapV2Router02(newRouter1);
    uniswapV2Router = _newPCSRouter;
// Set new address - This will be the 'Cake LP' address for the token pairing
function set_New_Pair_Address(address newPairt) public onlyOwner() {
    uniswapV2Pair = newPair1;
```



Contract Security

Total Findings: 9



- **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 Acces Control
- Low severity issues: (6)
 - Missing Events
 - Long number literals
 - Outdated compiler Version
 - Unchecked Array Lenght
 - Low level Calls
 - Use of EXTCODESIZE to check external accounts
- Informational severity issues: (2)
 - Public Functions Should be Declared External
 - State Variables Should be Declared Constant



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	Al	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	low	low
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.

▲ Incorrect Acces Control (2 Item)

Item. Location. Line 34 1-344 3eventy. 1/Medjum	Item: 1	Location:	Line 541-544	Severity:	Medium
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Function	INCORRECT ACCESS CONTROL 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 Sorcery is importing an access control library @openzeppelin/contracts/access/Ownable.sol but the function approve 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.

```
function approve(address spender1, uint256 amount1) public override returns (bool) {
    _approve(_msgSender(), spender1, amount1);
   return true;
```



Item: 1	Location:	Line 532-535	Severity:	Medium
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Function	Access control plays an important role in segregation of
FullCtion	
	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 Sorcery is importing an access control library
	@openzeppelin/contracts/access/Ownable.sol but the
	function transfer is missing the modifier onlyOwner.
Remedation	4. Ensure that initialization functions can only be called
	once and only by authorized entities.
	5. Implement least-privilege roles using libraries like
	OpenZeppelin's Access Control.
	6. Add proper access control modifiers to sensitive
	functions, such as onlyOwner or custom roles.
	ranctions, sach as only owner or castom roles.

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



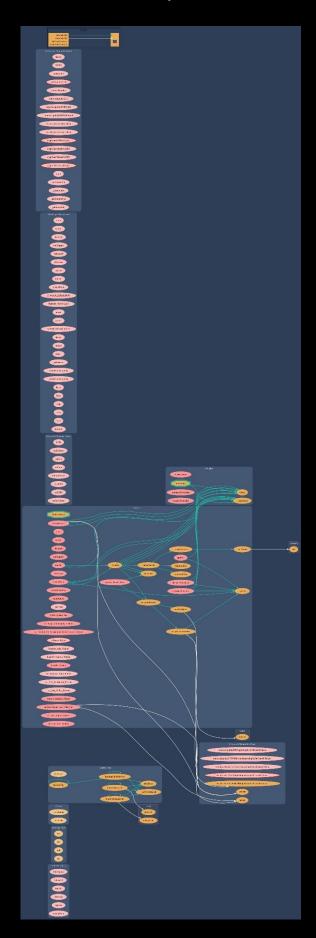
Outdated Compiler Version.

Low Severity.	Item: 1	Location:	Line 19	Severity:	Low
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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: /sorcery.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 v0.8.23, which patches most solidity vulnerabilities.

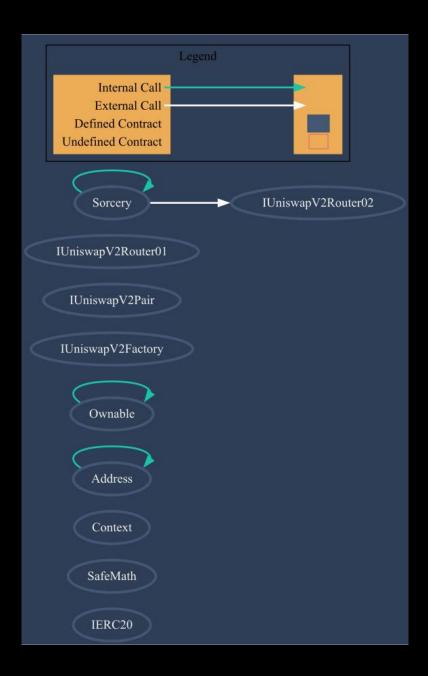


Contract Flow Graph

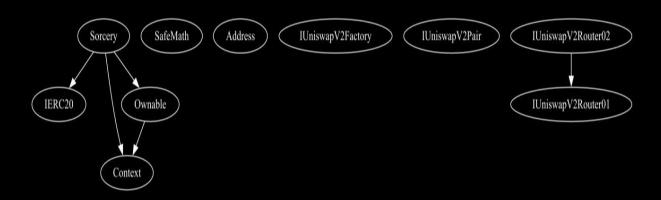




Contract Interaction Graph



Inheritance Graph





Contract Functions

Contract	Туре		Bases	
L	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
L	totalSupply	External 🏿		Мо[
L	balanceOf	External 🎚		Nol
L	transfer	External 🎚		Пои
L	allowance	External 🎚		Мо[
L	арргоvе	External 🎚		Мо[
L	transferFrom	External 🏿		Мо[
SafeMath	Library			
L	add	Internal 🖺		
L	sub	Internal 🖺		
L	mul	Internal 🖺		
L	div	Internal 🖺		
L	sub	Internal 🖺		
L	div	Internal 🖺		
Context	Implementation			
L	_msgSender	Internal 🖺		
L	_msgData	Internal 🖺		
Address	Library			
L	isContract	Internal 🖺		
L	sendValue	Internal 🖺		



L	functionCall	Internal 🖺	
L	functionCall	Internal 🖺	
L	functionCallWithV alue	Internal 🖺	
L	functionCallWithV alue	Internal 🖺	
L	functionStaticCall	Internal 🖺	
L	functionStaticCall	Internal 🖺	
L	functionDelegateC all	Internal 🖺	
L	functionDelegateC all	Internal 🖺	
L	_verifyCallResult	Private 🖺	
Ownable	Implementation	Context	
L		Public 🎚	иоӀ
L	owner	Public 🎚	lon
L	renounceOwnersh ip	Public [onlyOwner
L	transferOwnershi P	Public 🎚	onlyOwner
IUniswapV2Factor Y	Interface		
L	feeTo	External 🎚	Noĵ
L	feeToSetter	External 🎚	NOÎ
L	getPair	External 🎚	Nol
L	allPairs	External 🎚	Nol
L	allPairsLength	External 🎚	NOÏ
L	createPair	External 🎚	NoÎ
L	setFeeTo	External 🎚	ПоЛ
L	setFeeToSetter	External 🎚	NOÏ



IUniswapV2Pair	Interface		
L	83.50	External [No[
	name	External g	уоу
L	symbol	External 🎚	Пои
L	decimals	External 🎚	NOÎ
L	totalSupply	External [Nol
L	balanceOf	External 🎚	NO[
L	allowance	External 🎚	Поп
L	арргоvе	External 🎚	Nol
L	transfer	External 🎚	lon
L	transferFrom	External 🎚	Nol
L	DOMAIN_SEPARAT OR	External [NO[
L	PERMIT_TYPEHAS H	External [NO[
L	nonces	External 🎚	Nol
L	permit	External 🎚	Nol
L	MINIMUM_LIQUIDI TY	External [NOÏ
L	factory	External 🎚	NOÎ
L	token0	External 🎚	Nol
L	token1	External 🎚	Nol
L	getReserves	External 🎚	NO
L	price0Cumulative Last	External [NOÏ
L	price1Cumulative Last	External 🌡	NOÏ
L	kLast	External 🎚	No[
L	burn	External [ПоЛ
L	swap	External 🎚	Nol



L	al.i.—	5. to 1 1		Nell
	skim	External		NO[
L	sync	External 🎚		No[
L	initialize	External 🎚		Nol
IUniswapV2Router 01	Interface			
L	factory	External [Nol
L	WETH	External 🎚		Nol
L	addLiquidity	External 🎚		Nol
L	addLiquidityETH	External 🎚	GD	NOÎ
L	removeLiquidity	External 🎚		Nol
L	removeLiquidityE TH	External 🌡		Nol
L	removeLiquidityW ithPermit	External [Nol
L	removeLiquidityE THWithPermit	External [Nol
L	swapExactTokens ForTokens	External [Nol
L	swapTokensForEx actTokens	External [Nol
L	swapExactETHFor Tokens	External 🌡	dia .	Nol
L	swapTokensForEx actETH	External [Nol
L	swapExactTokens ForETH	External [Nol
L	swapETHForExact Tokens	External [(ID	Nol
L	quote	External 🎚		NO
L	getAmountOut	External [Nol
L	getAmountIn	External [Nol
L	getAmountsOut	External 🎚		Nol
	getAmountsout	External 8		NOg



L	getAmountsIn	External 🏻		NO[
IUniswapV2Router 02	Interface	IUniswapV2Router 01		
L	removeLiquidityE THSupportingFee OnTransferTokens	External 🎚		lon
L	removeLiquidityE THWithPermitSup portingFeeOnTran sferTokens	External 🎚		Nol
L	swapExactTokens ForTokensSupport ingFeeOnTransfer Tokens	External 🎚		Nol
L	swapExactETHFor TokensSupporting FeeOnTransferTok ens	External [gp	NOI
L	swapExactTokens ForETHSupporting FeeOnTransferTok ens	External 🎚	•	Nol
Sorcery	Implementation	Context, IERC20, Ownable		
Sorcery L	Implementation			Nol
	Implementation name	Ownable		lon
L		Ownable Public 🎚		
L	name	Ownable Public Public		Nol
L	name symbol	Ownable Public Public Public Public		lon
L L	name symbol decimals	Ownable Public Public Publ		no] No]
	name symbol decimals totalSupply	Ownable Public		lon lon
	name symbol decimals totalSupply balanceOf	Ownable Public Publi		lon lon lon
	name symbol decimals totalSupply balanceOf transfer	Ownable Public Publi		nol nol nol nol
	name symbol decimals totalSupply balanceOf transfer allowance	Ownable Public Publi		nol nol nol nol nol



L	decreaseAllowanc e	Public [Пои
L	excludeFromFee	Public 🎚		onlyOwner
L	includeInFee	Public 🎚		onlyOwner
L	_set_Fees	External [onlyOwner
L	Wallet_Update_De v	Public 🎚		onlyOwner
L	set_Swap_And_Liq uify_Enabled	Public 🎚		onlyOwner
L	set_Number_Of_Tr ansactions_Before _Liquify_Trigger	Public 🏿		onlyOwner
L		External 🎚	dip	NO
L	blacklist_Add_Wall ets	External 🎚		onlyOwner
L	blacklist_Remove_ Wallets	External 🎚		onlyOwner
L	blacklist_Switch	Public 🎚		onlyOwner
L	set_Transfers_Wit hout_Fees	External 🎚		onlyOwner
L	set_Max_Transacti on_Percent	External 🎚		onlyOwner
L	set_Max_Wallet_P ercent	External 🎚		onlyOwner
L	removeAllFee	Private 🖺		
L	restoreAllFee	Private 🖺		
L	_approve	Private 🖺		
L	_transfer	Private 🖺		
L	sendToWallet	Private 🖺		
L	swapAndLiquify	Private 🖺		lockTheSwap
L	process_Tokens_N ow	Public 🎚		onlyOwner



L	swapTokensForBN B	Private 🖺	
L	remove_Random_ Tokens	Public [onlyOwner
L	set_New_Router_a nd_Make_Pair	Public [onlyOwner
L	set_New_Router_ Address	Public [onlyOwner
L	set_New_Pair_Add ress	Public [onlyOwner
L	_tokenTransfer	Private 🖺	
L	_transferTokens	Private 🖺	
L	_getValues	Private 🖺	

Function can modify state

Function is payable

1



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

