



Smart Contract Audit

FOR
HASHISH COIN

DATED : 21 JAN 23'



AUDIT SUMMARY

Project name – Hashish

Date: 21 January , 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: **Passed** (Contract is developed by Pinksale safu dev)

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- Goerli:

all tests were done on Goerli network, each test has its transaction has attached to it.

3- Slither : Static Analysis



TESTNET LINKS

All tests were done using this contract, tests are done on goerli

<https://goerli.etherscan.io/token/0xbbc165bc2b4fcf7fe2a5615eaaaa70035a089bc1>

Token Address: Not Deployed on Chain

Checksum:

421c76d77563afa1914846b010bd164f395bd34c2102
e5e99e0cb9cf173c1d87

Deployer: Not Deployed on Chain

Owner: Not Deployed on Chain



TOKEN OVERVIEW

Fees:

Buy Fees: 1%

Sell Fees: 1%

Transfer Fees: 1%

Fees Privilege: None

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: None



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
 - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
 - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
 - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
 - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
-

VULNERABILITY CHECKLIST

- | | |
|--|---|
|  Return values of low-level calls |  Gasless Send |
|  Private modifier |  Using block.timestamp |
|  Multiple Sends |  Re-entrancy |
|  Using Suicide |  Tautology or contradiction |
|  Gas Limitand Loops |  Timestamp Dependence |
|  Address hardcoded |  Revert/require functions |
|  Exception Disorder |  Use of tx.origin |
|  Using inline assembly |  Integer overflow/underflow |
|  Divide before multiply |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3 |
|  Compiler version not fixed |  Using throw |
-



CLASSIFICATION OF RISK

Severity

Description

◆ Critical

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

◆ High-Risk

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

◆ Medium-Risk

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

◆ Low-Risk

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

◆ Gas Optimization /Suggestion

A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity

Found

◆ Critical

0

◆ High-Risk

0

◆ Medium-Risk

0

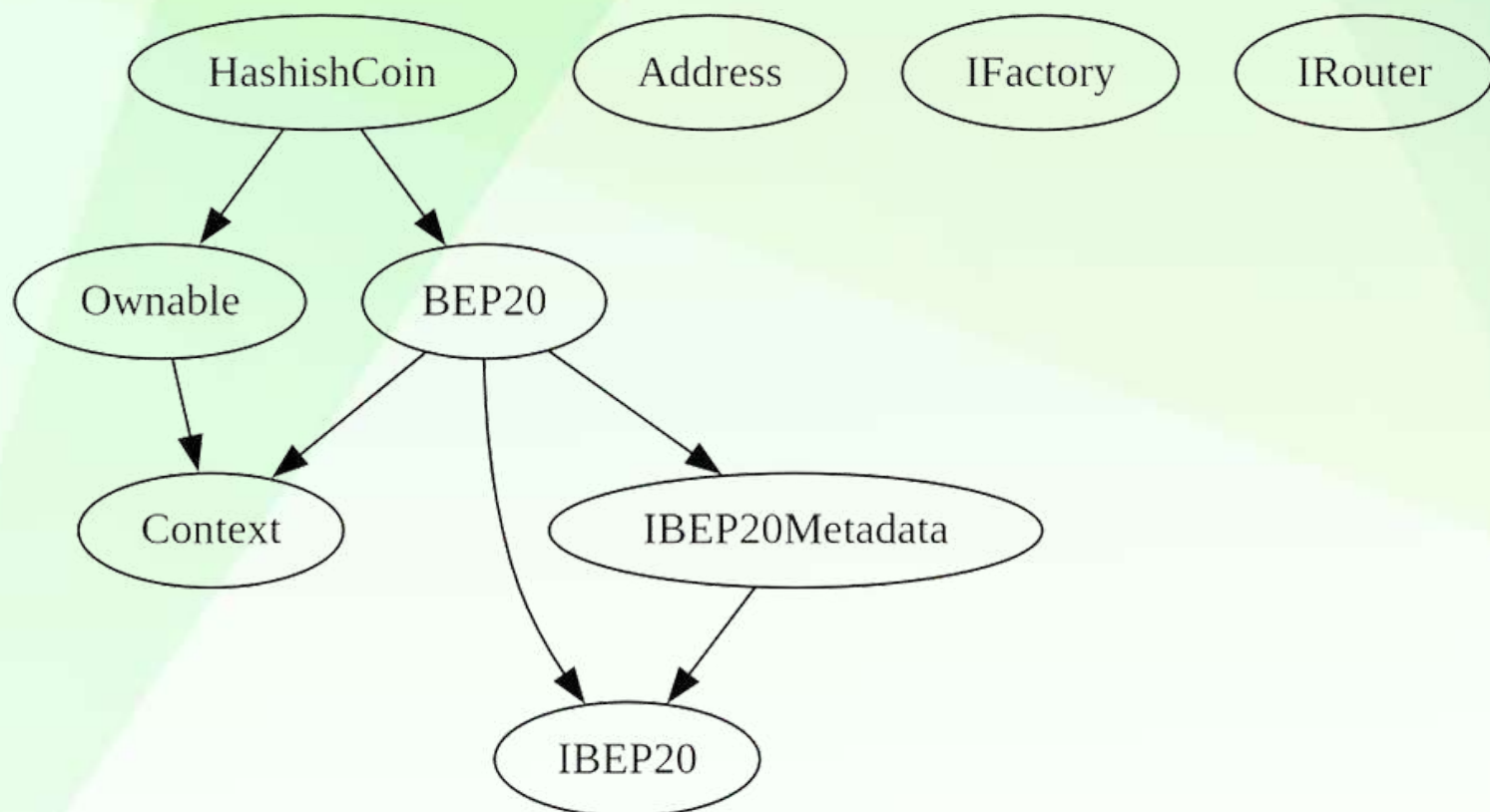
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE





POINTS TO NOTE

- **Owner is not able to set taxes (0% tax)**
 - **Owner is not able to blacklist an arbitrary wallet**
 - **Owner is not able to set max buy/sell/transfer amounts**
 - **Owner is not able to disable trades**
 - **Owner is not able to mint new tokens**
-



CONTRACT ASSESMENT

Contract	Type	Bases			
└─	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	

|||||

| **Context** | Implementation | |||

| └─ | _msgSender | Internal 🔒 | | |

| └─ | _msgData | Internal 🔒 | | |

|||||

| **IBEP20** | Interface | |||

| └─ | totalSupply | External ! | | NO ! |

| └─ | balanceOf | External ! | | NO ! |

| └─ | transfer | External ! | ● | NO ! |

| └─ | allowance | External ! | | NO ! |

| └─ | approve | External ! | ● | NO ! |

| └─ | transferFrom | External ! | ● | NO ! |

|||||

| **IBEP20Metadata** | Interface | IBEP20 |||

| └─ | name | External ! | | NO ! |

| └─ | symbol | External ! | | NO ! |

| └─ | decimals | External ! | | NO ! |

|||||

| **BEP20** | Implementation | Context, IBEP20, IBEP20Metadata |||

| └─ | <Constructor> | Public ! | ● | NO ! |

| └─ | name | Public ! | | NO ! |

| └─ | symbol | Public ! | | NO ! |

| └─ | decimals | Public ! | | NO ! |

| └─ | totalSupply | Public ! | | NO ! |

| └─ | balanceOf | Public ! | | NO ! |

| └─ | transfer | Public ! | ● | NO ! |

CONTRACT ASSESMENT

| \perp | allowance | Public ! | | NO ! |

| \perp | approve | Public ! | ● | NO ! |

| \perp | transferFrom | Public ! | ● | NO ! |

| \perp | increaseAllowance | Public ! | ● | NO ! |

| \perp | decreaseAllowance | Public ! | ● | NO ! |

| \perp | _transfer | Internal 🔒 | ● | |

| \perp | _tokengeneration | Internal 🔒 | ● | |

| \perp | _approve | Internal 🔒 | ● | |

|||||

| **Address** | Library | |||

| \perp | sendValue | Internal 🔒 | ● | |

|||||

| **Ownable** | Implementation | Context |||

| \perp | <Constructor> | Public ! | ● | NO ! |

| \perp | owner | Public ! | | NO ! |

| \perp | renounceOwnership | Public ! | ● | onlyOwner |

| \perp | transferOwnership | Public ! | ● | onlyOwner |

| \perp | _setOwner | Private 🔒 | ● | |

|||||

| **IFactory** | Interface | |||

| \perp | createPair | External ! | ● | NO ! |

|||||

| **IRouter** | Interface | |||

| \perp | factory | External ! | | NO ! |

| \perp | WETH | External ! | | NO ! |

| \perp | addLiquidityETH | External ! | 🇸🇬 | NO ! |

| \perp | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |

|||||

CONTRACT ASSESMENT

| ****HashishCoin**** | Implementation | BEP20, Ownable |||

| **↳** | <Constructor> | Public ! | ● | BEP20 |

| **↳** | approve | Public ! | ● | NO ! |

| **↳** | transferFrom | Public ! | ● | NO ! |

| **↳** | increaseAllowance | Public ! | ● | NO ! |

| **↳** | decreaseAllowance | Public ! | ● | NO ! |

| **↳** | transfer | Public ! | ● | NO ! |

| **↳** | _transfer | Internal 🔒 | ● | |

| **↳** | Liquify | Private 🔒 | ● | lockTheSwap |

| **↳** | swapTokensForETH | Private 🔒 | ● | |

| **↳** | addLiquidity | Private 🔒 | ● | |

| **↳** | updateLiquidityProvide | External ! | ● | onlyOwner |

| **↳** | updateLiquidityTreshhold | External ! | ● | onlyOwner |

| **↳** | EnableTrading | External ! | ● | onlyOwner |

| **↳** | updatedeadline | External ! | ● | onlyOwner |

| **↳** | updateMarketingWallet | External ! | ● | onlyOwner |

| **↳** | updateExemptFee | External ! | ● | onlyOwner |

| **↳** | bulkExemptFee | External ! | ● | onlyOwner |

| **↳** | rescueBNB | External ! | ● | onlyOwner |

| **↳** | rescueBSC20 | External ! | ● | onlyOwner |

| **↳** | <Receive Ether> | External ! | 💰 | NO ! |

| Symbol | Meaning |

|:-----:|-----|

| ● | Function can modify state |

| 💰 | Function is payable |



STATIC ANALYSIS

```
HashishCoin.Liquify(uint256,HashishCoin.Taxes) (contracts/token.sol#601-640) performs a multiplication on the result of a division:
- unitBalance = deltaBalance / (denominator - swapTaxes.Liquidity) (contracts/token.sol#626-627)
- ethToAddLiquidityWith = unitBalance * swapTaxes.Liquidity (contracts/token.sol#628)
HashishCoin.Liquify(uint256,HashishCoin.Taxes) (contracts/token.sol#601-640) performs a multiplication on the result of a division:
- unitBalance = deltaBalance / (denominator - swapTaxes.Liquidity) (contracts/token.sol#626-627)
- marketingAmt = unitBalance * 2 * swapTaxes.marketing (contracts/token.sol#635)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#divide-before-multiply

HashishCoin.transfer(address,address,uint256).currentTaxes (contracts/token.sol#559) is a local variable never initialized
HashishCoin.transfer(address,address,uint256).feeswap (contracts/token.sol#556) is a local variable never initialized
HashishCoin.transfer(address,address,uint256).feesum (contracts/token.sol#557) is a local variable never initialized
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-local-variables

HashishCoin.addLiquidity(uint256,uint256) (contracts/token.sol#660-673) ignores return value by router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWal
let,block.timestamp) (contracts/token.sol#665-672)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return

HashishCoin.transfer(address,address,uint256).fee (contracts/token.sol#558) is written in both
fee = 0 (contracts/token.sol#567)
fee = (amount * feesum) / 100 (contracts/token.sol#583)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#write-after-write

HashishCoin.updateLiquidityThreshold(uint256) (contracts/token.sol#680-687) should emit an event for:
- tokenLiquidityThreshold = new amount * 10 ** decimals() (contracts/token.sol#686)
HashishCoin.updateDeadline(uint256) (contracts/token.sol#696-700) should emit an event for:
- deadline = _deadline (contracts/token.sol#699)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic

Modifier HashishCoin.lockTheSwap() (contracts/token.sol#458-464) does not always execute _; or revertReference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-modifier

Reentrancy in HashishCoin.Liquify(uint256,HashishCoin.Taxes) (contracts/token.sol#601-640):
External calls:
- swapTokensForETH(toSwap) (contracts/token.sol#623)
- router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#651-657)
- addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#632)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
External calls sending eth:
- addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#632)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
State variables written after the call(s):
- addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#632)
- allowances[owner][spender] = amount (contracts/token.sol#332)
```

```
Reentrancy in HashishCoin.transferFrom(address,address,uint256) (contracts/token.sol#494-509):
External calls:
- transfer(sender,recipient,amount) (contracts/token.sol#499)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
- (success) = recipient.call{value: amount}() (contracts/token.sol#344)
- router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#651-657)
- address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#637)
External calls sending eth:
- transfer(sender,recipient,amount) (contracts/token.sol#499)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
- (success) = recipient.call{value: amount}() (contracts/token.sol#344)
State variables written after the call(s):
- _approve(sender,msgSender(),currentAllowance - amount) (contracts/token.sol#506)
- allowances[owner][spender] = amount (contracts/token.sol#332)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-2
```

```
Reentrancy in HashishCoin.Liquify(uint256,HashishCoin.Taxes) (contracts/token.sol#601-640):
External calls:
- swapTokensForETH(toSwap) (contracts/token.sol#623)
- router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#651-657)
- addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#632)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
External calls sending eth:
- addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#632)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
Event emitted after the call(s):
- Approval(owner,spender,amount) (contracts/token.sol#333)
- addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#632)
Reentrancy in HashishCoin.transfer(address,address,uint256) (contracts/token.sol#545-599):
External calls:
- Liquify(feeswap,currentTaxes) (contracts/token.sol#588)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
- (success) = recipient.call{value: amount}() (contracts/token.sol#344)
- router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#651-657)
- address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#637)
External calls sending eth:
- Liquify(feeswap,currentTaxes) (contracts/token.sol#588)
- router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
- (success) = recipient.call{value: amount}() (contracts/token.sol#344)
Event emitted after the call(s):
- Transfer(sender,recipient,amount) (contracts/token.sol#294)
- super_.transfer(sender,address(this),feeAmount) (contracts/token.sol#596)
- Transfer(sender,recipient,amount) (contracts/token.sol#294)
- super_.transfer(sender,recipient,amount - fee) (contracts/token.sol#591)
```



STATIC ANALYSIS

```
Reentrancy in HashishCoin.transferFrom(address,address,uint256) (contracts/token.sol#494-509):
  External calls:
    - _transfer(sender,recipient,amount) (contracts/token.sol#499)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#344)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#651-657)
    - address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#637)
  External calls sending eth:
    - _transfer(sender,recipient,amount) (contracts/token.sol#499)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#665-672)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#344)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (contracts/token.sol#333)
    - approve(sender,msgSender(),currentAllowance - amount) (contracts/token.sol#506)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Context.msgData() (contracts/token.sol#14-17) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.8 (contracts/token.sol#7) is known to contain severe issues (https://solidity.readthedocs.io/en/latest/bugs.html)
solc-0.8.17 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/token.sol#338-349):
  - (success) = recipient.call{value: amount}() (contracts/token.sol#344)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Variable BEP20_balances (contracts/token.sol#70) is not in mixedCase
Variable BEP20_allowances (contracts/token.sol#72) is not in mixedCase
Function IRouter.WETH() (contracts/token.sol#402) is not in mixedCase
Function HashishCoin.Liquify(uint256,HashishCoin.Taxes) (contracts/token.sol#601-640) is not in mixedCase
Parameter HashishCoin.updateLiquidityTreshold(uint256).new amount (contracts/token.sol#680) is not in mixedCase
Function HashishCoin.EnableTrading() (contracts/token.sol#689-694) is not in mixedCase
Parameter HashishCoin.updatedeadline(uint256). deadline (contracts/token.sol#696) is not in mixedCase
Parameter HashishCoin.updateExemptFee(address,bool). address (contracts/token.sol#707) is not in mixedCase
Variable HashishCoin.genesis_block (contracts/token.sol#437) is not in mixedCase
Constant HashishCoin.deadWallet (contracts/token.sol#442-443) is not in UPPER CASE WITH UNDERSCORES
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/token.sol#15)" inContext (contracts/token.sol#9-18)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

HashishCoin.lastSell (contracts/token.sol#456) is never used in HashishCoin (contracts/token.sol#425-734)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

HashishCoin.launchtax (contracts/token.sol#439) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

HashishCoin.pair (contracts/token.sol#429) should be immutable
HashishCoin.router (contracts/token.sol#428) should be immutable
```



Proxy MTPProto

New MTPProto

Result => No issues found



FUNCTIONAL TESTING

Functionality tests for ERC20 tokens includes:

- adding liquidity
- buying / selling /transferring (for non-excluded wallets)
- checking tax conversions, tax destinations
- checking auto liquidity

1- Adding Liquidity:

liquidity added on Uniswap v2:

<https://goerli.etherscan.io/tx/0x1d15ed6be85175f62c0f7b91d112cee3c76960f1326bfef606e8e6b22629854f>

no issue were found on adding liquidity.

2- Buying from a non-excluded wallet:

<https://goerli.etherscan.io/tx/0x1397c3631b8717037b4d98e017c9121a1cb77335c94d3355f89c8e96ecd493f7>

1% tax on buy, transferred to contract (not reached swap threshold yet)

3- Selling from a non-excluded wallet

<https://goerli.etherscan.io/tx/0x04b101f95e26facd3c4838b530e460de4cd1b4deb9194fc07a1518093af9007a>



FUNCTIONAL TESTING

1% tax on sell, transferred to contract (not reached swap threshold yet)

4- Swap and Liquify

since liquidity tax is 0 and taxes can not be changed later, then auto-liquidity is disabled forever. But to check marketing tax, we transferred 1M tokens to the contract to reach swap threshold and then we performed a sell:

<https://goerli.etherscan.io/tx/0x3b18e01dc9ca444073cbd1417baded936fb841d09a16c5188cdde8964adf03b3>

marketing wallet received converted ETH tokens received from swapping taxes.



MANUAL TESTING

NO RISKS WERE FOUND IN THE CONTRACT



Social Media Overview

**Here are the Social Media Accounts of
Hashish Coin**



<https://t.me/HASHISHCOIN>



<https://twitter.com/HASHISHCOIN/status/1616449119803015168>



<https://hashishcoin.org/>



DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.



ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



<https://auditace.tech/>



https://t.me/Audit_Ace



https://twitter.com/auditace_



<https://github.com/Audit-Ace>
