

# Smart Contract Audit

**FOR** 

# BETCOIN CASH

**DATED: 28 JAN 23'** 



# **AUDIT SUMMARY**

Project name - BETCOIN CASH

**Date: 28** 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	1
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- BSC Test Network:

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

## 3- Slither: Static Analysis

**Testnet Link:** all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/token/0xd40225b839a 8a0e014fdd9cf1dab28cf7642d040



# **Token Information**

Token Name: Betcoin Cash

Token Symbol: BETC

Decimals: 9

## **Token Address:**

<u>0xbf7517cc8cb82bb2f1aebf6a693ed3fe602ec218</u>

## Checksum:

2F7ADE6C239719849C39B26D1034738849B87C92 DBEA5A42FBFBBC62C4D0D2EE

## Deployer:

0xcb64678c574c1e3a900a0010bc98ef2f79099c57

### Owner:

0xcb64678c574c1e3a900a0010bc98ef2f79099c57



# **TOKEN OVERVIEW**

Fees:

**Buy Fees: -0.5%** 

Sell Fees: 3%

Transfer Fees: 3%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: 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-byline 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 isexercised 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**





# **CLASSIFICATION OF RISK**

## Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

## **Description**

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

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

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

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

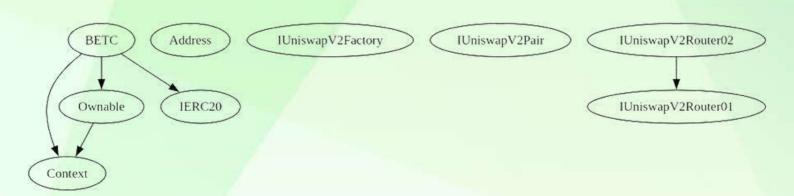
A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

Severity	Found
♦ Critical	0
♦ High-Risk	0
♦ Medium-Risk	0
♦ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	1



# **INHERITANCE TREE**





## **POINTS TO NOTE**

- Owner is not able to set taxes over 25% (Buy + Sell = 50% maximum 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



## **STATIC ANALYSIS**

```
BET. constructor().router (contracts/Ace_Testing_BC.col#999) is a local variable never initialized Peterosci: https://githb.com/cytic/sitiarproisi/petector-bocuments/com/minitalized-local-variables
BET. camplosing/fulcation() contracts/Ace_Testing_BC.col#999 | Montracts/Ace_Testing_BC.col#999 |
```

Result => A static analysis of contract's source code has been performed using slither, no major issues were found (except some "minor impact" suggestions)



#### Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

#### 0- Deploying (Passed):

https://testnet.bscscan.com/tx/0x2612047b1b8fb63b05b4f98c2ff 98d3ea5505b1f8c5d1d785dc5d57cc1eac71a

## 1- Adding Liquidity (Passed): liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x12f1ed001c1dc13baeef9b3a95de 0a24e3d190b3f26565cd029793329d8a52e6

no issue were found on adding liquidity.

## 2- Enabling trade for public (Passed):

https://testnet.bscscan.com/tx/0x2eb607828b3d0378a36bef4822 1500643d105f441c9068a8065dfc3901389909

# 3- Excluding deployer's wallet from taxes (to test taxes) (Passed):

https://testnet.bscscan.com/tx/0x87fb5b0c5024eb6cc1b82d232e 5417a623f624c312fd4a240f93369b6101d94e



## 4- Enabling swap and liquify (Passed):

https://testnet.bscscan.com/tx/0x0c0814ddf4db23589bbb7313a9 9b83d3114f480e178236a279d5810acf507b90

5- Setting buy and sell fees to max (25%) (Passed):

https://testnet.bscscan.com/tx/0x9b65b608afc1e2b3706600ea9b 1017dd9220d0b2977010f22766c2cba29753c6

https://testnet.bscscan.com/tx/0xb0a801f8894979fb2e86d82b74 818e6c87041543a4146e522c06122fca6a1768

6- Buying from a non-whitelisted wallet (Passed):

 $\frac{https://testnet.bscscan.com/tx/0x7f1a84e6a692b55fea1c47faa49}{1d61fefbf53288c476501dcbfc0e6536cd4d2}$ 

25% tax applied

5- Selling from a non-whitelisted wallet (Passed):

 $\frac{https://testnet.bscscan.com/tx/0x9ed2eee007a6bc4b9b15abf2ef0}{1fc473905fe710b47c8a4c8d5bfb3882cbae0}$ 

25% tax applied



#### 6- Internal Swap (Passed):

taxes were swapped to BNB and sent to marketing wallet which can be seen here:

https://testnet.bscscan.com/address/0x024238ae95bf8e4361ba58ca018e84c12c654509#internaltx

### 7- Auto Liquidity (Passed):

LP tokens generated and sent to dead wallet which can be seen here:

https://testnet.bscscan.com/token/0x72bf7c4286c90956d611e73fe704bae7305850ba?

## 8- Transferring from non-whitelisted to non-whitelisted (Passed):

tried to transfer 100,000,000 tokens but 75,100,000 were sent (25% transfer tax)

https://testnet.bscscan.com/tx/0x8614e4ce9b4e5c43303403e374 3e52f20f74b41b27fc06e7710655f4d987636b



9- Transferring while transfer taxes are off (wallet to wallet transfer without fee) (Passed):

disabling transfer fees:

https://testnet.bscscan.com/tx/0x0db8bfd374a567d37e2eac3ee1 6bfc420bb8487b3814694d0b5336e88cc864ff

transferring 100,000,000 tokens from a non-whitelisted wallet to a non-whitelisted wallet without fee:

 $\frac{https://testnet.bscscan.com/tx/0x7655acc43dc39669c6b1ed4dc6}{c025aedb79ca776dc55c3b7f414350093fa3d5}$ 



## **MANUAL TESTING**

## **Suggestions**

 Emit a transfer event at \_takeMarketing and \_takeLiquidity functions



# Social Media Overview

Here are the Social Media Accounts of BetCoin



https://t.me/BetcoinCashOfficial



https://twitter.com/Betcoin\_Cash



https://betcoincash.io/



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