

# Smart Contract Audit

**FOR** 

ETC WEB3

**DATED: 18 JAN 23'** 



# **AUDIT SUMMARY**

Project name - ETC WEB3

**Date: 18** 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/0xc4f4a4be51c341 733e2aa6447bf15ed53aae6ed1#code

#### **Token Address:**

0x0c8f1F10fFfdF8eD00903DD99ce185b4613F7eC5

#### Checksum:

2413fb3709b05939f04cf2e92f7d0897fc2596f9ad0 b8a9ea855c7bfebaae892

#### Deployer:

0xE34993B3f4F8780f27D05F7F138d787A3611B82A

#### Owner:

0xE34993B3f4F8780f27D05F7F138d787A3611B82A



# **TOKEN OVERVIEW**

Fees:

Buy Fees: 3%

Sell Fees: 3%

Transfer Fees: 0%

Fees Privilige: None

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.

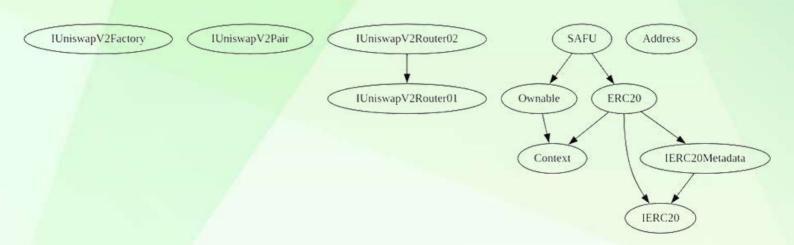
A vulnerability that has an informational character but is not affecting any of the code.

### **Findings**

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



# **INHERITANCE TREE**





#### **POINTS TO NOTE**

- Owner is not able to change taxes (3% tax on buys/sells and 0% on transfers)
- 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** |
111111
| **IUniswapV2Factory** | Interface | ||| | |
| | feeTo | External | | NO | |
| | feeToSetter | External | | | NO | |
getPair | External | | NO | |
| - | allPairs | External | | | NO | |
| L | allPairsLength | External | | NO | |
| - | createPair | External | | | NO | |
| - | setFeeTo | External ! | • | NO ! |
| L | setFeeToSetter | External | | | NO | |
| **|UniswapV2Pair** | Interface | |||
| - | name | External | | | NO | |
| - | symbol | External | | NO ! |
| - | decimals | External | | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| Lallowance | External | NO! |
| - | approve | External | | • | NO ! |
| - | transfer | External | | | NO | |
| └ | transferFrom | External | | ● |NO | |
| L | DOMAIN SEPARATOR | External | | | NO | |
| | PERMIT_TYPEHASH | External | | NO | |
| L | nonces | External | NO | |
| - | permit | External | | • | NO | |
| | MINIMUM_LIQUIDITY | External | | NO | |
```



```
| L | factory | External | | NO | |
| L | token0 | External | | | NO | |
L token1 | External | | NO | |
| L | getReserves | External | | | NO | |
| priceOCumulativeLast | External | | NO | |
| | price1CumulativeLast | External | | NO | |
| | kLast | External | | NO | |
| - | mint | External | | | NO | |
L | burn | External | | • | NO | |
| - | swap | External | | • | NO ! |
L skim | External | | 🛑 NO | |
| L | sync | External | | | NO ! | |
| L | initialize | External | | | NO | |
| **|UniswapV2Router01** | Interface | |||
| L | factory | External | | NO | |
L | WETH | External | | NO | |
└ | addLiquidity | External ! | ● |NO! |
| L | addLiquidityETH | External | | | NO | | |
| └ | removeLiquidity | External ! | ● |NO! |
| └ | removeLiquidityETH | External ! | ● |NO! |
| └ | removeLiquidityWithPermit | External ! | ● |NO! |
| └ | swapExactTokensForTokens | External | | ● |NO | |
| - | swapTokensForExactTokens | External | | • | NO | |
| | swapExactETHForTokens | External | | | NO | |
| | swapTokensForExactETH | External | | | | NO | |
| L | swapExactTokensForETH | External | | | | NO | |
| | swapETHForExactTokens | External | | III | NO | |
```



```
| factory | External | | NO | |
 L | token0 | External | | | NO ! |
 L | token1 | External ! | NO! |
 getReserves | External | | | NO | |
 | priceOCumulativeLast | External | | NO | |
 price1CumulativeLast | External | NO! |
 | | kLast | External | | NO | |
 | mint | External | | | NO | |
 L|burn|External | | | NO | |
 🕒 swap | External 📗 | 🌘 | NO 📗 |
 └ | skim | External | | ● |NO ! |
 └ | sync | External | | ● |NO | |
 └ | initialize | External | | ● |NO | |
| **IUniswapV2Router01** | Interface | |||
 - | factory | External | | | NO ! |
 └ | WETH | External ! | NO! |
 | addLiquidity | External | | | | NO | |
 └ | addLiquidityETH | External | | 📭 | NO 📗 |
 | removeLiquidity | External | | | | NO ! |
 | removeLiquidityETH | External | | | | NO | |
 - | removeLiquidityWithPermit | External 🚦 | 🌘 |NO 📗 |
 removeLiquidityETHWithPermit | External | | | | NO | |
 └ | swapExactTokensForTokens | External ! | ● |NO! |
 └ | swapExactETHForTokens | External | | ■ NO! |
 └ | swapTokensForExactETH | External 🚦 | 🛑 |NO 📗 |
 └ | swapExactTokensForETH | External ! | ● |NO! |
 └ | swapETHForExactTokens | External ! | 📭 | NO ! |
```



```
| L | quote | External ! | NO! | | | |
| L | getAmountOut | External | | | NO | |
| | getAmountIn | External | | | NO | |
| L | getAmountsOut | External | | NO | |
getAmountsIn | External | NO |
removeLiquidityETHSupportingFeeOnTransferTokens | External
INO I
removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
External | | • | NO ! |
| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External
| NO |
swapExactETHForTokensSupportingFeeOnTransferTokens | External
■ NO
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | | | |
| NO | |
| **IERC20** | Interface | | | |
| L | totalSupply | External | | | NO | |
| L | balanceOf | External ! | NO! |
| L | transfer | External | | 📵 | NO | |
| L allowance | External | | NO! |
| - | approve | External | | | | NO | |
| └ | transferFrom | External | | ● |NO ! |
| **IERC20Metadata** | Interface | IERC20 |||
| - name | External | NO | |
| - | symbol | External | | NO | |
| L | decimals | External | | | NO | |
```



```
**Address** | Library | |||
| LisContract | Internal 🔒 | | | |
| L | sendValue | Internal 🔒 | 🌑 | |
| L | functionCall | Internal 🔒 | 🛑 | |
| L | functionCall | Internal 🔒 | 🛑 | |
| - | functionCallWithValue | Internal 🔒 | 🌑 | |
| - | functionCallWithValue | Internal 🔒 | 🛑 | |
| L | functionStaticCall | Internal 🔒 | | |
| L | functionStaticCall | Internal 🔒 | | |
📙 | functionDelegateCall | Internal 🔒 | 🧶 | |
| L | functionDelegateCall | Internal 🔒 | 🥮 | |
| - | verifyCallResultFromTarget | Internal 🔒 | | |
| - | verifyCallResult | Internal 🔒 | | |
| L | revert | Private 🔐 | | |
| **Context** | Implementation | |||
| L | msgSender | Internal 🔒 | | |
| L | msgData | Internal 🔒 | | |
ШШ
| **Ownable** | Implementation | Context |||
└ | <Constructor> | Public ! | ● |NO! |
| L | owner | Public ! | | NO! |
| └ | renounceOwnership | Public ! | ● | onlyOwner |
| └ | transferOwnership | Public ! | ● | onlyOwner |
```



```
ШШ
**ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
Constructor | Public | | | NO | |
| | name | Public | | NO | |
| L | symbol | Public ! | NO! |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
L transfer | Public | | • | NO ! |
| L | allowance | Public | | | NO ! |
| L | approve | Public ! | | NO! |
| └ | transferFrom | Public ! | ● |NO! |
| └ | increaseAllowance | Public ! | ● |NO! |
│ └ │ decreaseAllowance │ Public │ │ ● │NO │ │
| L | transfer | Internal 🔒 | 🧶 | |
| - | _mint | Internal 🔒 | 🥮 | |
| L | _burn | Internal 🔒 | 📵 | |
| - | _approve | Internal 🔒 | 🌑 | |
| - | beforeTokenTransfer | Internal 🔒 | 🛑 | |
| L | _afterTokenTransfer | Internal 🔒 | 🛑 | |
```



#### Legend



#### **STATIC ANALYSIS**

```
ASPI constructor() moter (contracts/taken.sol2734) is a local variable never initialized local-variables
Reference: https://github.com/cytic/Aliber/usi/Detector-boomentalinaminitalized-local-variables
SAPU scapeAnd_Louify(unit206) (contracts/taken.sol2085-894) injores return value by uniswapy/Nouter.addLiquidityETM(value: nedslance)(address(this), otherHolf,0,0,address(dode deference https://github.com/cytic/Aliber/usi/Detector-boomentalinaminued-return
Receitrancy in SAPU. transfer (address.address.guit206) (contracts/token.sol2973-78-10)
- scapeAnd_Louify(louidityTokens) (contracts/token.sol2973-78-10)
- uniswapy/Nouter-swapExacttokensForETMScapertingFeeOff ransferfuses (by path, address(this), block.timestamp) (contracts/token.sol2875-888)
- uniswapy/Nouter-swapExacttokensForETMScapertingFeeOff ransferfuses (this), otherHolf,0,0, address(tokedad), block.timestamp) (contracts/token.sol2875-888)
- uniswapy/Nouter-swapExacttokensForETMScapertingFeeOff ransferfuses (tokedad), block.timestamp) (contracts/token.sol2875)
- swapExacttor-swapExacttokensForETMScapertingFeeOff ransferfuses (tokedad), block.timestamp) (contracts/token.sol2870)
- uniswapy/Nouter-swapExacttokensForETMScapertingFeeOff ransferfuses (tokedad), block.timestamp) (contracts/token.sol2890)
- uniswapy/Nouter-swapExacttokensForETMScapertingFeeOff ransferfuses (tokedad), block.timestamp) (contracts/token.sol2890)
- uniswapPRotor-swapExacttokensForETMScapertingFeeOff ransferfuses (tokedad), block.timestamp) (contracts/token.sol2890)
- uniswapPRotor-swapExacttokensForETMScapertingFeeOff ransferfuses (tokedad), block.timestamp) (contracts/token.sol2890)
- swapExacttokensForETMScapertingFeeOff ransferfuses (token.sol2890)
- swapExacttokensForETMScapertingFeeOff ransferfuses (token.
```



#### STATIC ANALYSIS

```
Address functionSet(call (address bytes string) (contracts/taken.sole#13-40) is never used and should be removed Address functionSet(call) (address bytes (contracts/taken.sol#23-30) is never used and should be removed Address. SurctionSet(call(address.bytes.string) (contracts/taken.sol#28-32) is never used and should be removed Address. SurctionSet(contracts/taken.sol#28-32) is never used and should be removed Address. SurctionSet(contracts/taken.sol#28-32) is never used and should be removed Address. SurctionSet(contracts/taken.sol#28-32) is never used and should be removed Address. SurctionSet(contracts/taken.sol#28-32) is never used and should be removed Address. SurctionSet(contracts/taken.sol#28-32) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is never used and should be removed Set(ca). Burnfaddress.suint250 (contracts/taken.sol#28-30) is
```

Result => No issues found



# **FUNCTIONAL TESTING**

#### Functionality tests for ERC20 tokens includes:

- adding liquidity
- buying / selling /transferring (for non-excluded wallets\_
- tax conversion and add liquidity

#### 1- Adding Liquidity:

liquidity added on Uniswap v2:

https://goerli.etherscan.io/tx/0x0aa0465b675f52be78fed7b05b63bff7a3ee505677c6d0b3def1bb4e0ab60252 no issue were found on adding liquidity.

#### 2- Buying from a non-excluded wallet:

https://goerli.etherscan.io/tx/0xebbeba7901d8683b14a614a278b5af62380ff855d6a355bee4b086b452a832ce taxes sent to the contract (accumulated)

#### 3- Selling from a non-excluded wallet

https://goerli.etherscan.io/tx/0xbd7ac96d8578e01685a3a2b66fcf62cc682670f6e42559319f84db99b3fd6b78



# **FUNCTIONAL TESTING**

#### 4- Tax conversions:

development wallet and marketing wallets both received ETH after swap and liquidfy

#### development wallet:

https://goerli.etherscan.io/address/0x76727C9dc6d19257e76582cc9B47a65a43e12b3d#internaltx

#### marketing wallet:

https://goerli.etherscan.io/address/0x9B79C54B54493153dc25f3 8C59884284707caf74 dead wallet received 0.003354159693099419 lp share tokens (Auto liquidity works)



# MANUAL TESTING Critical Risk Findings:

NO RISKS WERE FOUND IN THE CONTRACT



# Social Media Overview

# Here are the Social Media Accounts of ETC WEB3



https://t.me/ET\_COIN



https://twitter.com/ETCOINWEB3



https://www.etcoinweb3.com



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https://twitter.com/auditace\_



https://github.com/Audit-Ace