



Smart Contract Audit

FOR
Your Wallet

DATED : 25 JAN 23'



AUDIT SUMMARY

Project name – Your Wallet

Date: 25 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- BSC Test Network:

all tests were done on BSC Test 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/0x35cbeeB6c3D960A35637E810e8676B4668c5912A#readContract>



Token Information

Token Name : YourWallet

Token Symbol: YourWallet

Token Type: ERC 20

Decimals: 18

Token Supply: 100,000,000

Token Address:

0xDa70FBaC9e1C9Ac3475c24A3A847f85f1388C429

Checksum:

CE9559EA44723E2B93C915DE8487EB6A888D4F86
147BB04EF6B0F165DDFF9FCD

Owner:

0xD0391c1ddaE0c6a60314000e0BB813bD00F4064a

Deployer:

0xbf21cE7e474E7d447cDced111de8F3aE87822eD6



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilige: None

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: No



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

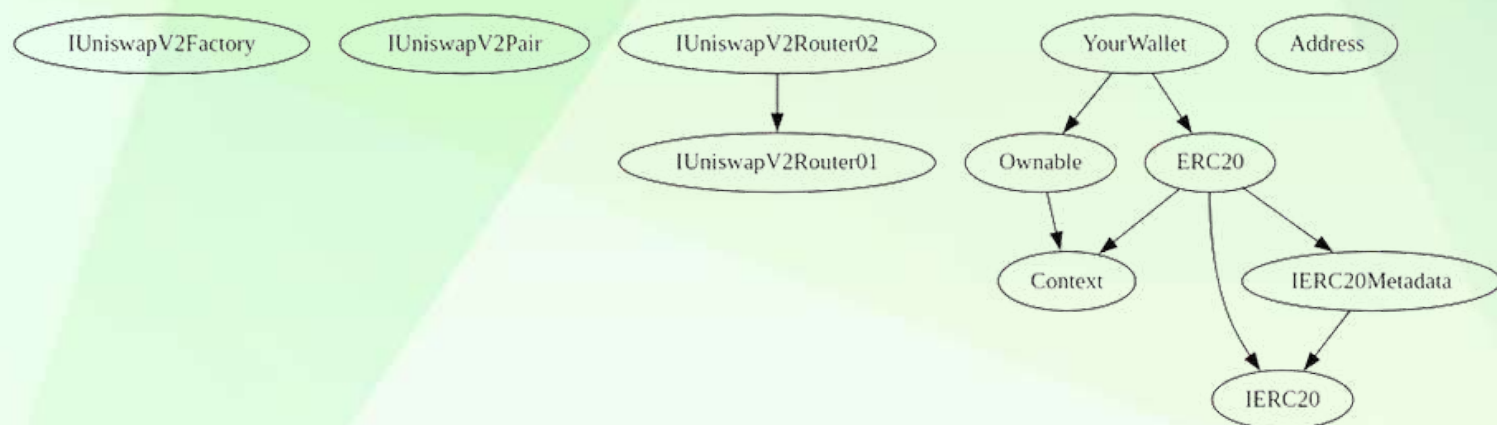
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE





POINTS TO NOTE

- **Owner is not able to change taxes (2% buy and 2% sell static, 0% transfer 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			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
IUniswapV2Factory Interface					
L	feeTo	External !		NO !	
L	feeToSetter	External !		NO !	
L	getPair	External !		NO !	
L	allPairs	External !		NO !	
L	allPairsLength	External !		NO !	
L	createPair	External !		NO !	
L	setFeeTo	External !		NO !	
L	setFeeToSetter	External !		NO !	
IUniswapV2Pair Interface					
L	name	External !		NO !	
L	symbol	External !		NO !	
L	decimals	External !		NO !	
L	totalSupply	External !		NO !	
L	balanceOf	External !		NO !	
L	allowance	External !		NO !	
L	approve	External !		NO !	
L	transfer	External !		NO !	
L	transferFrom	External !		NO !	
L	DOMAIN_SEPARATOR	External !		NO !	
L	PERMIT_TYPEHASH	External !		NO !	
L	nonces	External !		NO !	
L	permit	External !		NO !	
L	MINIMUM_LIQUIDITY	External !		NO !	
L	factory	External !		NO !	
L	token0	External !		NO !	
L	token1	External !		NO !	
L	getReserves	External !		NO !	
L	price0CumulativeLast	External !		NO !	
L	price1CumulativeLast	External !		NO !	
L	kLast	External !		NO !	
L	mint	External !		NO !	
L	burn	External !		NO !	
L	swap	External !		NO !	
L	skim	External !		NO !	
L	sync	External !		NO !	
L	initialize	External !		NO !	

CONTRACT ASSESMENT


|||||


| ****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! |

| | swapTokensForExactTokens | External ! |  | NO! |

| | swapExactETHForTokens | External ! |  | NO! |

| | swapTokensForExactETH | External ! |  | NO! |

| | swapExactTokensForETH | External ! |  | NO! |

| | swapETHForExactTokens | External ! |  | NO! |

| | quote | External ! | | NO! |

| | getAmountOut | External ! | | NO! |

| | getAmountIn | External ! | | NO! |

| | getAmountsOut | External ! | | NO! |


| | getAmountsIn | External ! | | NO! |


|||||

| ****IUniswapV2Router02**** | Interface | IUniswapV2Router01 |||

| | removeLiquidityETHSupportingFeeOnTransferTokens | External ! |  | NO! |

| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! |  | NO! |

| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |

| | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |

| | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! |  | NO! |

|||||


| ****IERC20**** | Interface | |||

| | totalSupply | External ! | | NO! |

| | balanceOf | External ! | | NO! |

| | transfer | External ! |  | NO! |

| | allowance | External ! | | NO! |

| | approve | External ! |  | NO! |

| | transferFrom | External ! |  | NO! |

|||||

| ****IERC20Metadata**** | Interface | IERC20 |||

| | name | External ! | | NO! |

| | symbol | External ! | | NO! |

| | decimals | External ! | | NO! |

|||||

CONTRACT ASSESMENT






























```

| **Address** | Library | ||| |
|  | isContract | Internal | | |
|  | sendValue | Internal | | |
|  | functionCall | Internal | | |
|  | functionCall | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | functionStaticCall | Internal | | |
|  | functionStaticCall | Internal | | |
|  | functionDelegateCall | Internal | | |
|  | functionDelegateCall | Internal | | |
|  | verifyCallResultFromTarget | Internal | | |
|  | verifyCallResult | Internal | | |
|  | _revert | Private | | |
| | | |
| **Context** | Implementation | |||
|  | _msgSender | Internal | | |
|  | _msgData | Internal | | |
| | | |
| **Ownable** | Implementation | Context | |||
|  | <Constructor> | Public | | | NO |
|  | owner | Public | | | NO |
|  | renounceOwnership | Public | | | onlyOwner |
|  | transferOwnership | Public | | | onlyOwner |
| | | |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | |||
|  | <Constructor> | Public | | | NO |
|  | name | Public | | | NO |
|  | symbol | Public | | | NO |
|  | decimals | Public | | | NO |
|  | totalSupply | Public | | | NO |
|  | balanceOf | Public | | | NO |
|  | transfer | Public | | | NO |
|  | allowance | Public | | | NO |
|  | approve | Public | | | NO |
|  | transferFrom | Public | | | NO |
|  | increaseAllowance | Public | | | NO |
|  | decreaseAllowance | Public | | | NO |
|  | _transfer | Internal | | |
|  | _mint | Internal | | |
|  | _burn | Internal | | |

```

CONTRACT ASSESMENT

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|  | _approve | Internal |  |  | | |
|  | _beforeTokenTransfer | Internal |  |  | |
|  | _afterTokenTransfer | Internal |  |  | |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| **YourWallet** | Implementation | ERC20, Ownable | | |
|  | <Constructor> | Public |  |  | ERC20 |
|  | <Receive Ether> | External |  |  | NO |  |
|  | claimStuckTokens | External |  |  | onlyOwner |
|  | excludeFromFees | External |  |  | onlyOwner |
|  | isExcludedFromFees | Public |  | | NO |  |
|  | changeMarketingWallet | External |  |  | onlyOwner |
|  | enableTrading | External |  |  | onlyOwner |
|  | _transfer | Internal |  |  | |
|  | setSwapEnabled | External |  |  | onlyOwner |
|  | setSwapTokensAtAmount | External |  |  | onlyOwner |
|  | swapAndSendMarketing | Private |  |  | |

```

| Symbol | Meaning |

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

|  | Function can modify state |

|  | Function is payable |



STATIC ANALYSIS

```
Reentrancy in YourWallet.transfer(address,address,uint256) (contracts/Ace_Testing_BSC.sol#943-998):
  External calls:
    - swapAndSendMarketing(swapTokensAtAmount) (contracts/Ace_Testing_BSC.sol#975)
      - (success) = recipient.call(value: amount)() (contracts/Ace_Testing_BSC.sol#397)
      - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Ace_Testing_BSC.sol#1024-1030)
      - address(marketingWallet).sendValue(newBalance) (contracts/Ace_Testing_BSC.sol#1034)
  External calls sending eth:
    - swapAndSendMarketing(swapTokensAtAmount) (contracts/Ace_Testing_BSC.sol#975)
      - (success) = recipient.call(value: amount)() (contracts/Ace_Testing_BSC.sol#397)
  Event emitted after the call(s):
    - Transfer(sender,recipient,amount) (contracts/Ace_Testing_BSC.sol#741)
      - super.transfer(from,to,amount) (contracts/Ace_Testing_BSC.sol#997)
    - Transfer(sender,recipient,amount) (contracts/Ace_Testing_BSC.sol#741)
      - super.transfer(from,address(this),fees) (contracts/Ace_Testing_BSC.sol#994)
Reentrancy in YourWallet.swapAndSendMarketing(uint256) (contracts/Ace_Testing_BSC.sol#1017-1037):
  External calls:
    - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Ace_Testing_BSC.sol#1024-1030)
    - address(marketingWallet).sendValue(newBalance) (contracts/Ace_Testing_BSC.sol#1034)
  Event emitted after the call(s):
    - swapAndSendMarketing(tokenAmount,newBalance) (contracts/Ace_Testing_BSC.sol#1036)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Address.revert(bytes,string) (contracts/Ace_Testing_BSC.sol#545-560) uses assembly
  - INLINE ASM (contracts/Ace_Testing_BSC.sol#553-556)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage

Address.revert(bytes,string) (contracts/Ace_Testing_BSC.sol#545-560) is never used and should be removed
Address.functionCall(address,bytes) (contracts/Ace_Testing_BSC.sol#404-415) is never used and should be removed
Address.functionCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#417-423) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256) (contracts/Ace_Testing_BSC.sol#425-437) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Ace_Testing_BSC.sol#439-459) is never used and should be removed
Address.functionDelegateCall(address,bytes) (contracts/Ace_Testing_BSC.sol#488-498) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#500-513) is never used and should be removed
Address.functionStaticCall(address,bytes) (contracts/Ace_Testing_BSC.sol#461-471) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#473-486) is never used and should be removed
Address.isContract(address) (contracts/Ace_Testing_BSC.sol#387-388) is never used and should be removed
Address.verifyCallResult(bool,bytes,string) (contracts/Ace_Testing_BSC.sol#533-543) is never used and should be removed
Address.verifyCallResultFromTarget(address,bool,bytes,string) (contracts/Ace_Testing_BSC.sol#515-531) is never used and should be removed
Context.msgData() (contracts/Ace_Testing_BSC.sol#568-571) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Ace_Testing_BSC.sol#758-773) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version0.8.17 (contracts/Ace_Testing_BSC.sol#19) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
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/Ace_Testing_BSC.sol#391-402):
  - (success) = recipient.call(value: amount)() (contracts/Ace_Testing_BSC.sol#397)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Ace_Testing_BSC.sol#439-459):
  - (success,returndata) = target.call(value: value)(data) (contracts/Ace_Testing_BSC.sol#449-451)
Low level call in Address.functionStaticCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#473-486):
  - (success,returndata) = target.staticcall(data) (contracts/Ace_Testing_BSC.sol#478)
Low level call in Address.functionDelegateCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#500-513):
  - (success,returndata) = target.delegatecall(data) (contracts/Ace_Testing_BSC.sol#505)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
```

```
Variable IRouter01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Ace_Testing_BSC.sol#108) is too similar to IRouter01.addLiquidity(a
ddress,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Ace_Testing_BSC.sol#109)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

PRICE.enableTrading() (contracts/Ace_Testing_BSC.sol#566-570) uses literals with too many digits:
  - swapThreshold = (balanceOf(lpPair)) / 100000 (contracts/Ace_Testing_BSC.sol#568)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

PRICE.LiquidityAdded (contracts/Ace_Testing_BSC.sol#288) should be constant
PRICE.canSweepFees (contracts/Ace_Testing_BSC.sol#269) should be constant
PRICE.maxBuyFee (contracts/Ace_Testing_BSC.sol#259) should be constant
PRICE.maxSellFee (contracts/Ace_Testing_BSC.sol#258) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

PRICE.swapRouter (contracts/Ace_Testing_BSC.sol#273) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

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



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

0- Deploying (Passed):

<https://testnet.bscscan.com/tx/0x6deaadec8164053f3c3280242e181340ee20f6873b7584851e180ebb04761e9f>

1- Adding Liquidity (Passed):

liquidity added on Pancakeswap V2:

<https://testnet.bscscan.com/tx/0x384a66401ed6a2f7aecab97a6e2afaf6cf25284058fe2429a8cb911f4d70ba8c>

no issue were found on adding liquidity.

2- Enabling trade for public (Passed):

<https://testnet.bscscan.com/tx/0x209b9f0f6a162f6c7643485a2ff2747f31f4b0eb0a4a7f5380e794558e3a8c17>

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

<https://testnet.bscscan.com/tx/0x4259b5c1978b258746e3582c0dfaef7de2b1522011b9a150f9d0a5b33707a4b6>



FUNCTIONAL TESTING

4- Buying from a non-excluded wallet (Passed):

<https://testnet.bscscan.com/tx/0xa4ba3ac8ad67dd409775614ec1485210e7f2245bb3a96addec5f946c116a0cbf>

2% static tax on buys (sent to contract)

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

<https://testnet.bscscan.com/tx/0x5f0eff4211d81b2f514ea04b421a0b69cfbe3c9d17238a4f42fe07cf132185a9>

2% static tax on sells

6- Swap & liquify (Passed):

taxes were swapped to BNB and sent to marketing wallets.

<https://testnet.bscscan.com/address/0xbf21ce7e474e7d447cdced111de8f3ae87822ed6#internaltx>



MANUAL TESTING

NO ISSUES WERE FOUND



Social Media Overview

**Here are the Social Media Accounts of
Your Wallet**



https://t.me/YourWallet_Official



<https://twitter.com/YourWalletLive>



<https://yourwallet.live/>



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