



Smart Contract Audit

FOR

Holy Shib Pad

DATED : 25 JAN 23'



AUDIT SUMMARY

Project name – Holy Shib Pad

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- BSCTest network:

all tests were done on BSCTest 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 bsctest net

<https://testnet.bscscan.com/token/0xe2a907f1de977fc6e4ae05952f0c25a2b8c9099e>



Token Information

Token Name : Holy Shib Pad

Token Symbol: HOLYSHIB

Decimals: 18

Token Address:

0xD5Be0E4316194c5B87AC9420c00Bc31C00CC7E35

Checksum:

1c9d9c2ae2eb80cc40ac8ac840750d07ed4e622392
6b2ae87e4404371ab3fd33

Deployer:

0x65EcDB67225Cee7d96c7E311f70593065bC322Bb

Owner:

0x65EcDB67225Cee7d96c7E311f70593065bC322Bb



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.

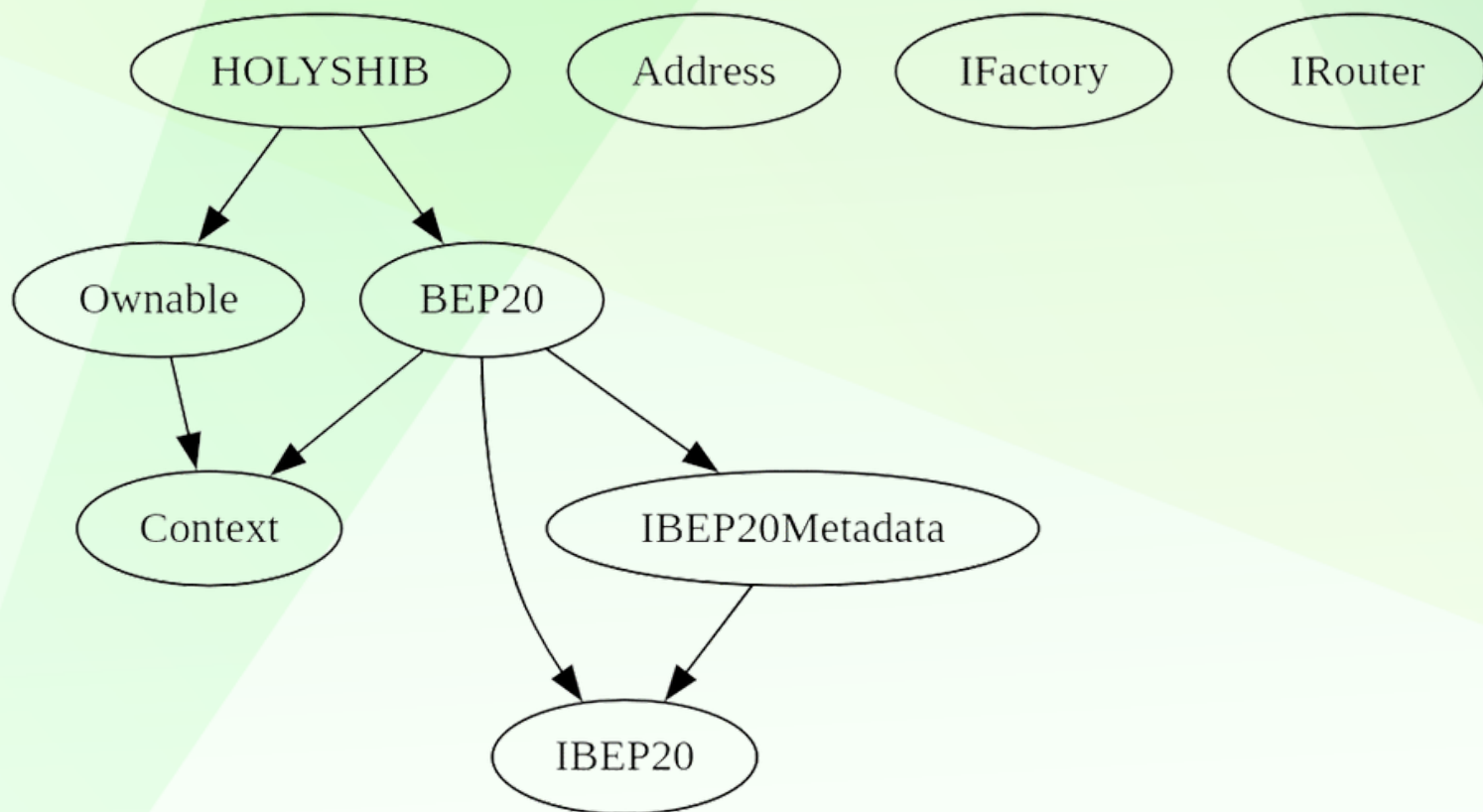
Findings

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 or set taxes (0% always)**
 - **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**	
Context Implementation					
L	_msgSender	Internal	🔒		
L	_msgData	Internal	🔒		
IBEP20 Interface					
L	totalSupply	External	!		NO!
L	balanceOf	External	!		NO!
L	transfer	External	!	🛑	NO!
L	allowance	External	!		NO!
L	approve	External	!	🛑	NO!
L	transferFrom	External	!	🛑	NO!
IBEP20Metadata Interface IBEP20					
L	name	External	!		NO!
L	symbol	External	!		NO!
L	decimals	External	!		NO!
BEP20 Implementation Context, IBEP20, IBEP20Metadata					
L	<Constructor>	Public	!	🛑	NO!
L	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!
L	transferFrom	Public	!	🛑	NO!
L	increaseAllowance	Public	!	🛑	NO!
L	decreaseAllowance	Public	!	🛑	NO!
L	_transfer	Internal	🔒	🛑	
L	_tokengeneration	Internal	🔒	🛑	
L	_approve	Internal	🔒	🛑	
Address Library					
L	sendValue	Internal	🔒	🛑	

CONTRACT ASSESMENT


```

| **Ownable** | Implementation | Context | | |
|  | <Constructor> | Public ! |  | NO ! |
|  | owner | Public ! | | NO ! |
|  | renounceOwnership | Public ! |  | onlyOwner |
|  | transferOwnership | Public ! |  | onlyOwner |
|  | _setOwner | Private  |  | |
| | | | |
| **IFactory** | Interface | | | |
|  | createPair | External ! |  | NO ! |
| | | | |
| **IRouter** | Interface | | | |
|  | factory | External ! | | NO ! |
|  | WETH | External ! | | NO ! |
| | | | |
| **HOLYSHIB** | Implementation | BEP20, Ownable | | |
|  | <Constructor> | Public ! |  | BEP20 |
|  | approve | Public ! |  | NO ! |
|  | transferFrom | Public ! |  | NO ! |
|  | increaseAllowance | Public ! |  | NO ! |
|  | decreaseAllowance | Public ! |  | NO ! |
|  | transfer | Public ! |  | NO ! |
|  | _transfer | Internal  |  | |
|  | EnableTrading | External ! |  | onlyOwner |
|  | updateWhitelist | External ! |  | onlyOwner |
|  | bulkWhitelist | External ! |  | onlyOwner |
|  | rescueBNB | External ! |  | onlyOwner |
|  | rescueBSC20 | External ! |  | onlyOwner |
|  | burnBSC20 | External ! |  | onlyOwner |
|  | <Receive Ether> | External ! |  | NO ! |

```

| Symbol | Meaning |

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

|  | Function can modify state |

|  | Function is payable |



STATIC ANALYSIS

```
Address.sendValue(address,uint256) (contracts/Ace_Testing_BSC.sol#338-349) is never used and should be removed
Context._msgData() (contracts/Ace_Testing_BSC.sol#14-17) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Ace_Testing_BSC.sol#7) 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#338-349):
- (success) = recipient.call{value: amount}() (contracts/Ace_Testing_BSC.sol#344)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Variable BEP20._balances (contracts/Ace_Testing_BSC.sol#70) is not in mixedCase
Variable BEP20._allowances (contracts/Ace_Testing_BSC.sol#72) is not in mixedCase
Function IRouter.WETH() (contracts/Ace_Testing_BSC.sol#402) is not in mixedCase
Function HOLYSHIB.EnableTrading() (contracts/Ace_Testing_BSC.sol#511-514) is not in mixedCase
Parameter HOLYSHIB.updateWhitelist(address,bool)._address (contracts/Ace_Testing_BSC.sol#516) is not in mixedCase
Constant HOLYSHIB.deadWallet (contracts/Ace_Testing_BSC.sol#413-414) 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/Ace_Testing_BSC.sol#15)" inContext (contracts/Ace_Testing_BSC.sol#9-18)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

HOLYSHIB.pair (contracts/Ace_Testing_BSC.sol#409) should be immutable
HOLYSHIB.router (contracts/Ace_Testing_BSC.sol#408) 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 issues found in the output (except some minor impact suggestions)



FUNCTIONAL TESTING

Functionality tests for BEP20 tokens includes:

- adding liquidity
- buying / selling /transferring (for non-whitelisted wallets)

1- Adding Liquidity:

liquidity added on on Pancakeswap v2:

<https://testnet.bscscan.com/tx/0x51a20187dc8136dd66afea74041af7436885f130bf6d5b8727e1f26579f0c950>

no issue were found on adding liquidity.

2- Buying from a non-excluded wallet:

<https://testnet.bscscan.com/tx/0x9b56502d24466059ead7ec585801d5e1defcdac4254c15741842bd75ad2fc9ba>

0% tax for non-whitelisted wallets

3- Selling from a non-excluded wallet

<https://testnet.bscscan.com/tx/0xe08c9292478e2606001fb41125d389a73b0f7faf5583508998de689362416b5b>

0% tax for non-whitelisted wallets



MANUAL TESTING

NO ISSUES WERE FOUND IN THE CONTRACT





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