

Smart Contract Audit

FOR

POPCAP

DATED: 3 July 23'



AUDIT SUMMARY

Project name - POPCAP

Date: 3 July, 2023

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

Audit Status: Passed

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 conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3-Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/token/0xF1160454f7fa0B5c9400d800583Cc895350a5CC8



Token Information

Token Name: POPCAP

Token Symbol: \$POP

Decimals: 9

Token Supply: 100,000,000,000,000,000

Token Address:

0xD4292A30C48D9fD5D1229Cde75bA36e150c95747

Checksum:

c7ddad4efe3936adfc04015202cda6b77097b5c2

Owner:

0x48B23E938d7A613B98EFdAD6DfBCE2390E6f7A0b (at time of writing the audit)

Deployer:

0x48B23E938d7A613B98EFdAD6DfBCE2390E6f7A0b



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: no fees

Ownership: renounced

Minting: none

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: - Initial distribution of the tokens



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.

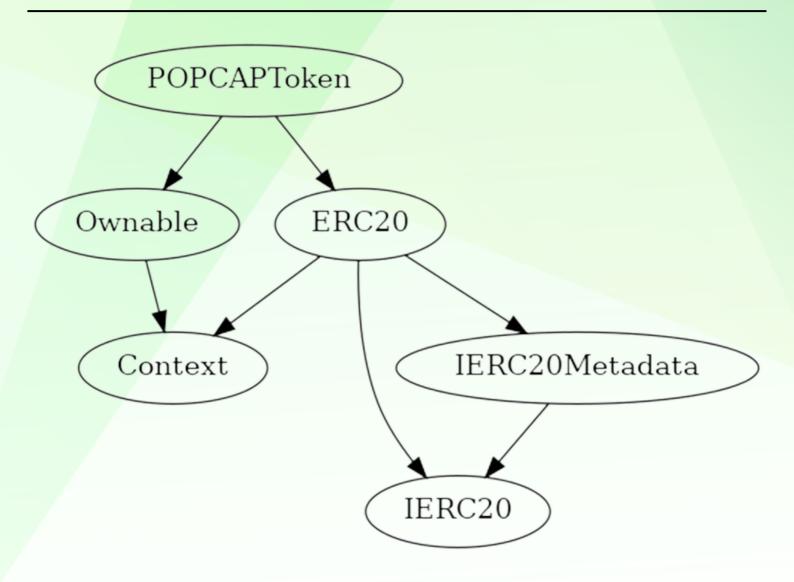
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set buy/sell/transfer fees
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to set max wallet/transfer/buy/sell
- Owner is not able to mint new tokens



CONTRACT ASSESMENT

```
Contract |
               Type
                            Bases
   | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**Context** | Implementation | |||
L msgSender Internal 🔒 | ||
 L | msgData | Internal | | | |
| **Ownable ** | Implementation | Context |||
 Constructor> | Public | | NO | |
 L | owner | Public | | NO | |
L | renounceOwnership | Public | | OnlyOwner |
 L | transferOwnership | Public ! | • | onlyOwner |
 L | transferOwnership | Internal 🔒 | 🛑 | |
| **IERC20** | 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 | |
| **IERC20Metadata** | Interface | IERC20 |||
 L | name | External | | NO | |
 L | symbol | External | | NO | |
 L | decimals | External | | NO | |
**ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
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 | decreaseAllowance | Public | | NO | |
 └ | transfer | Internal 🔒 | 🛑 | |
 └ | mint | Internal 🔒 | 🛑 | |
 L | burn | Internal 🔒 | ● | |
```



CONTRACT ASSESMENT



STATIC ANALYSIS

```
Different versions of Solidity are used:

    Version used: [''0.8.0', ''0.8.17']
    '0.8.0 (contracts/Token.sol#43)
    '0.8.0 (contracts/Token.sol#115)

         - ^0.8.0 (contracts/Token.sol#191)
         - ^0.8.0 (contracts/Token.sol#215)
        - ^0.8.0 (contracts/Token.sol#547)
        - ^0.8.17 (contracts/Token.sol#21)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#different-pragma-directives-are-used
Context._msgData() (contracts/Token.sol#38-40) is never used and should be removed
ERC20. burn(address.uint256) (contracts/Token.sol#475-490) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
Pragma version^0.8.17 (contracts/Token.sol#21) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
Pragma version^0.8.0 (contracts/Token.sol#43) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#115) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#191) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#215) allows old versions
Pragma version^0.8.0 (contracts/Token.sol#547) allows old versions
solc-0.8.20 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x52e582ac1a8f299ef29f2324b178767 ff018eb5dd6dded17b76f4cf134129ade

2- Buying (0% tax) (passed):

https://testnet.bscscan.com/tx/0xd1342ccbe8a0fbe24457d20227a8d8 df784b3164ad73f9edf45ce02e5db5f028

3- Selling (0% tax) (passed):

https://testnet.bscscan.com/tx/0x2389b863c31e89ee97d9a368b2e6bde1019212085b90536b1dcb963ff85c9e42

4- Transferring (0% tax) (passed):

https://testnet.bscscan.com/tx/0x6b37747344de8f2c8a7e62d254579a464197e078573eae1efeea86c6bbbcfc03



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