AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

InfiCloud

DATED : 27 Jan, 2024

AUDIT SUMMARY

Project name – InfiCloud

Date: 27 Jan, 2024

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	1	0
Acknowledged	0	0	0	0	0
Resolved	0	1	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/address/0x046f0b56c5 47efa86bc5ab6c1a5b19b51ee6017b#code

Token Information

Token Name : InfiCloud

Token Symbol: InfiCloud

Decimals: 9

Token Supply: 10,000,000,000

Network: BscScan

Token Type: BEP-20

Token Address:
0x3Ab71A0451587A9359fC0750bC21D276EC198F02

Checksum:
2b7acbefe2a12642d388659dffd20722

Owner:
0xDc23Cc03E997222eCf6276E3554E385a3B2cDCD7
(at time of writing the audit)

Deployer:
0xDc23Cc03E997222eCf6276E3554E385a3B2cDCD7

TOKEN OVERVIEW

Fees:

Buy Fee: 0%

Sell Fee: 0%

Transfer Fee: 0%

Fees Privilege: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges:

- **Whitelist to transfer without enabling trades**
- **Enabling trades**

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 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

- ✅ Return values of low-level calls
- ✅ Private modifier
- ✅ Multiple Sends
- ✅ Using Suicide
- ✅ Gas Limitand Loops
- ✅ Address hardcoded
- ✅ Exception Disorder
- ✅ Using inline assembly
- ✅ Divide before multiply
- ✅ Missing Zero Address Validation
- ✅ Compiler version not fixed

- ✅ **Gasless Send**
- ✅ Using block.timestamp
- ✅ Re-entrancy
- ✅ Tautology or contradiction
- ✅ Timestamp Dependence
- ✅ Revert/require functions
- ✅ Use of tx.origin
- ✅ Integer overflow/underflow
- ✅ Dangerous strict equalities
- ✅ Using SHA3
- ✅ Using throw

STATIC ANALYSIS

A static analysis of the code was performed using Slither.

No issues were found.

```
INFO:Detectors:
solc-0.8.22 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
WARNING:Slither:No contract was analyzed
INFO:Slither:InfiCloud.sol analyzed (0 contracts with 93 detectors), 1 result(s) found
```

INHERITANCE TREE
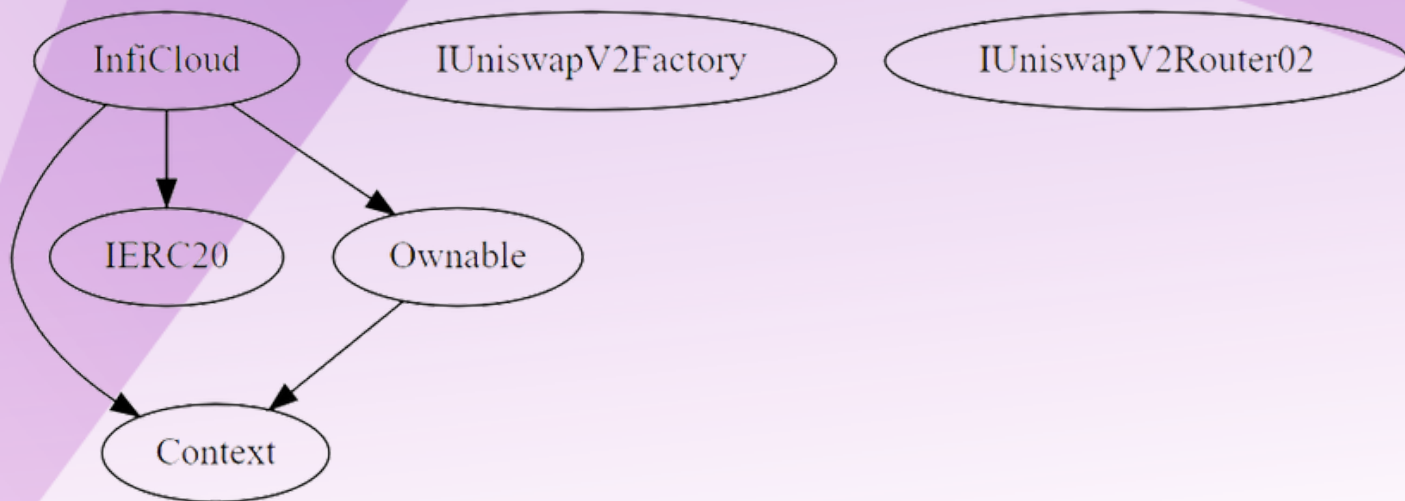
OWNERSHIP PRIVILEGES

- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can Enable trading.
- The owner can add/remove excludefee address from the fee.
- The owner can clear stuck BNB.

Functional Tests

1- Approve (passed):

https://testnet.bscscan.com/tx/0x44da1aab34ad33efd01e790144aae985591517ad68dba8beb7c3f2ec8ae3dddd

2- Add Exclude Fee (passed):

https://testnet.bscscan.com/tx/0x238f3c7c9e883f5433c9b59d5f6a66bd63d831b408bf155e92c48b223c6a7e9a

3- Remove Exclude Fee (passed):

https://testnet.bscscan.com/tx/0x4cb0191503511b8d0c49e53676643e4859ecf5f9afdaa173b265e6118dcf79cb

4- Enable Trading (passed):

https://testnet.bscscan.com/tx/0xcfe984546c51cf86c0e7226952301648190f9e4801547e30b25d44beb59a6bad

5- clear Stuck BNB (passed):

https://testnet.bscscan.com/tx/0xb42a18183e1b20a3353746a419f1a082fae51b38a67b8bfe0d42b8a66f698dde

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**	1
◆ **Medium-Risk**	0
◆ **Low-Risk**	1
◆ **Gas Optimization / Suggestions**	0

MANUAL TESTING

Centralization – Enabling Trades
Severity: High
Function: Enabling Trades
Status: Resolved (SAFU Dev hold the ownership of contract)

Overview:
The **EnableTrading** function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```solidity
function enableTrading() external onlyOwner() {
    require(!tradingOpen,"trading is already open");
    tradingOpen = true;
    emit TradingOpenUpdated();
}
```

Suggestion:
To reduce centralization and potential manipulation, consider one of the following approaches:

1. Automatically enable trading after a specified condition, such as the completion of a presale, is met.

2. If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can give investors more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.

MANUAL TESTING

Centralization – Local Variable Shadowing
Severity: Low
Function: allowance/_approve
Status: Open

Overview:

```solidity
function allowance(address owner, address spender) public view override returns
(uint256) {
        return _allowances[owner][spender];
    }
function _approve(address owner, address spender, uint256 amount) private {
        require(owner != address(0), "ERC20: approve from the zero address");
        require(spender != address(0), "ERC20: approve to the zero address");
        _allowances[owner][spender] = amount;
        emit Approval(owner, spender, amount);
    }
```

Suggestion:
Rename the local variable that shadows another component.

DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general   information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.

ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.

https://auditace.tech/

https://t.me/Audit_Ace

https://twitter.com/auditace_

https://github.com/Audit-Ace