



Smart Contract Audit

FOR

BONKGIRL

DATED : 14 Jan, 2024

MANUAL TESTING

Centralization – Enabling Trades

Severity: High

function: Enabling Trades

Status: Open

Overview:

Tokens swaps are disabled until owner enable trading. Only owner is able to swap/transfer tokens during this time.

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading already enabled.");
    tradingEnabled = true;
    swapEnabled = true;

    emit TradingEnabled(tradingEnabled);
}
```

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.
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AUDIT SUMMARY

Project name – BONKGIRL

Date: 14 Jan, 2023

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

Audit Status: **Passed With High Risk**

Issues Found

| Status | Critical | High | Medium | Low | Suggestion |
|--------------|----------|------|--------|-----|------------|
| Open | 0 | 1 | 1 | 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/tx/0x2a4cd3a6b130b842e3de6a660555ddf9388b3667a733ae419aba28fe18aa6d0d>



Token Information

Token Name : BONKGIRL

Token Symbol: BONKGIRL

Decimals: 18

Token Supply: 1,000,000,000

Network: BscScan

Token Type: BEP-20

Token Address:

0x2EA6C9396b214c7cbC035eeC57AED636e35bbd9B

Checksum:

0x55a8b23e1bb3dcfccea5501c4342becea746391ae
50d0a8a6a89397d39faf4c1

Owner:

0x90828703979cfFF7fDF96469970e34897fBf3185
(at time of writing the audit)

Deployer:

0x90828703979cfFF7fDF96469970e34897fBf3185



TOKEN OVERVIEW

Fees:

Marketing Tax: 5%

Transfer Fee: 0%

Fees Privilege: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges:

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 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. |

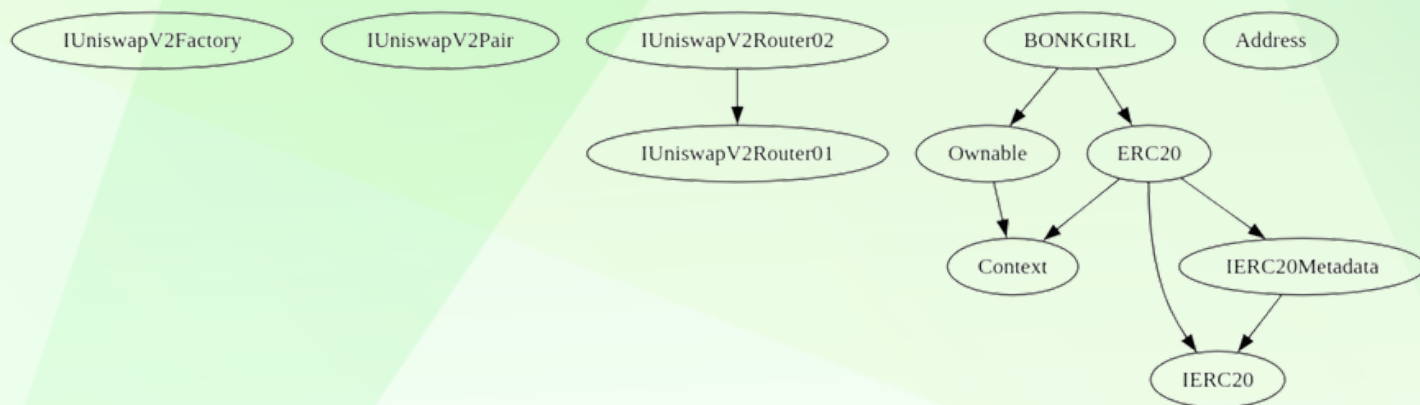
Findings

Severity

Found

| | |
|----------------------------------|---|
| ◆ Critical | 0 |
| ◆ High-Risk | 1 |
| ◆ Medium-Risk | 1 |
| ◆ Low-Risk | 0 |
| ◆ Gas Optimization / Suggestions | 0 |

INHERITANCE TREE





POINTS TO NOTE

- **The owner can transfer ownership.**
 - **The owner can renounce ownership.**
 - **The owner can Enable trading.**
 - **The owner can Add/Remove the Exempt fee address.**
-



STATIC ANALYSIS

```
Reentrancy in BONGGIRL.transfer(address,address,uint256) (token.sol#747-796):
  External calls:
    - swapAndSendMarketing(contractTokenBalance) (token.sol#773)
      - (success) = recipient.call{value: amount}() (token.sol#384)
      - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (token.sol#823-829)
      - address(marketingWallet).sendValue(newBalance) (token.sol#834)
  External calls sending eth:
    - swapAndSendMarketing(contractTokenBalance) (token.sol#773)
      - (success) = recipient.call{value: amount}() (token.sol#384)
  Event emitted after the call(s):
    - Transfer(sender,recipient,amount) (token.sol#567)
      - super_.transfer(from,address(this),fees) (token.sol#792)
    - Transfer(sender,recipient,amount) (token.sol#567)
      - super_.transfer(from,to,amount) (token.sol#795)
Reentrancy in BONGGIRL.swapAndSendMarketing(uint256) (token.sol#815-837):
  External calls:
    - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (token.sol#823-829)
    - address(marketingWallet).sendValue(newBalance) (token.sol#834)
  Event emitted after the call(s):
    - SwapAndSendMarketing(tokenAmount,newBalance) (token.sol#836)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3
INFO:Detectors:
Context.msgData() (token.sol#394-397) is never used and should be removed
ERC20.burn(address,uint256) (token.sol#584-599) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
Pragma version0.8.15 (token.sol#7) allows old versions
solc-0.8.15 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
Low level call in Address.sendValue(address,uint256) (token.sol#375-386):
  - (success) = recipient.call{value: amount}() (token.sol#384)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
INFO:Detectors:
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (token.sol#69) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (token.sol#71) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (token.sol#102) is not in mixedCase
Function IUniswapV2Router01.WETH() (token.sol#142) is not in mixedCase
Parameter BONGGIRL.changeMarketingWallet(address).marketingWallet (token.sol#722) is not in mixedCase
Parameter BONGGIRL.setSwapEnabled(bool).enabled (token.sol#798) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
INFO:Detectors:
Redundant expression "this (token.sol#395)" inContext (token.sol#389-398)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
INFO:Detectors:
Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (token.sol#147) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (token.sol#148)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar
INFO:Detectors:
BONGGIRL.marketingFeeOnBuy (token.sol#634) should be immutable
BONGGIRL.marketingFeeOnSell (token.sol#635) should be immutable
BONGGIRL.uniswapV2Pair (token.sol#630) should be immutable
BONGGIRL.uniswapV2Router (token.sol#629) should be immutable
```



FUNCTIONAL TESTING

1- Approve (passed):

<https://testnet.bscscan.com/tx/0xf91f0f8bf7367e4e43322a55f822de08f103e956ee8a31b2e6c2a6fd67ee978a>

2- Increase Allowance (passed):

<https://testnet.bscscan.com/tx/0xe937e3c4905e358ae3038974239da1a01f742957c40c5698bed2c5e7141ef9d4>

3- Decrease Allowance (passed):

<https://testnet.bscscan.com/tx/0xe37a56f0e1a3de4196f1ea9e179fdc7cbcf5b1cdd85de948c7f2e086c366d1c1>

4- marketing Wallet(passed):

<https://testnet.bscscan.com/tx/0x195281882f13a9b4fdc7d65cdb94001db5d503ece6237abede60eab5b99f54bd>

5- exclude from fees (passed):

<https://testnet.bscscan.com/tx/0x5653a8016e996312c9b151f28d8df276983df2bdb98c054aba77e0bd61d367dc>

6- Enable Trading (passed):

<https://testnet.bscscan.com/tx/0x97ac01049caf1d375c5c5bffb9e57b8567508f26cd5fdcc8c369828288032989>

7- transfer (passed):

<https://testnet.bscscan.com/tx/0x24bf3aef77fecc714912473f3493d0089f87f7d03d2edb662878834e43de8a4>

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MANUAL TESTING

Centralization – Slippage control

Severity: Medium

Status: Open

Overview:

there is no slippage control in swapAndSendMarketing when swapping fees into BNB

```
uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransfer
Tokens(
    tokenAmount,
    0,
    path,
    address(this),
    block.timestamp
);
```

Suggestion: Implement slippage control



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