

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

BONKI



TOKEN OVERVIEW

Risk Findings

Severity	Found	
High	1	
Medium	0	
Low	0	
Informational	0	

Centralization Risks

Owner Privileges	Description	
Can Owner Set Taxes >25%?	Not Detected	
Owner Can enable trading?	Detected	
Can Owner Disable Trades ?	Not Detected	
Can Owner Mint?	Not Detected	
Can Owner Blacklist ?	Not Detected	
Can Owner set Max Wallet amount?	Not Detected	
Can Owner Set Max TX amount?	Not Detected	



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OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

Audit Result	Passed with high risk
KYC Verification	_
Audit Date	03 Jan 2024



CONTRACT DETAILS

Token Name: BONKI

Token Address: 0x90e4d3321288a7260A206DA769c28ea1BAF2918a

Symbol: BONKI

Network: BscScan

Token Type: BEP - 20

Language: Solidity

Total Supply: 100,000,000,000,000

Owner's Wallet:

0x6E5c933bD0d57368B9959fd48e1ED2BF11cD00FD

Deployer's Wallet:

0x4AC8cb73913a9A7e34f82Fac6877af647673210b

Checksum:

a2032c616934aeb47e6039f76b20d2F5

Testnet

https://testnet.bscscan.com/address/0xf9963cbd4be36241 4ff2978b04ec3995dab09d0e#code



AUDIT METHODOLOGY

Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat



VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed



RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

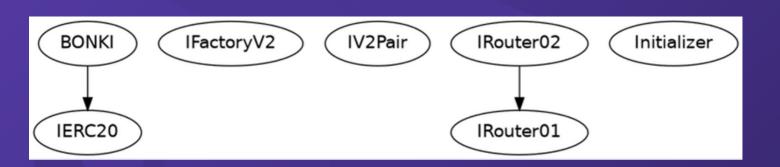
Issues on this level are minor details and warning that can remain unfixed.

Informational

Issues on this level are minor details and warning that can remain unfixed.



INHERITANCE TREES





STATIC ANALYSIS

A static analysis of the code was performed using Slither. No issues were found.

```
INFO: Detectors:
BONKI.contractSwap(uint256) (Token.sol#571-631) performs a multiplication on the result of a division:
          - toLiquify = ((contractTokenBalance * ratios.liquidity) / ratios.totalSwap) / 2 (Token.sol#581) - liquidityBalance = (amtBalance * toLiquify) / swapAmt (Token.sol#601)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#divide-before-multiply
Reentrancy in BONKI.enableTrading() (Token.sol#647-666):
          External calls:
          - initializer.setLaunch(lpPair,uint32(block.number),uint64(block.timestamp),_decimals) (Token.sol#653-655)
          - (initThreshold,initSwapAmount) = initializer.getInits(balanceOf(lpPair)) (Token.sol#656-662)
          State variables written after the call(s):
          - tradingEnabled = true (Token.sol#663)
          BONKI.tradingEnabled (Token.sol#210) can be used in cross function reentrancies:
          - BONKI._transfer(address,address,uint256) (Token.sol#527-569)
- BONKI.enableTrading() (Token.sol#647-666)
          - BONKI.renounceOwnership() (Token.sol#274-280)
          - BONKI.tradingEnabled (Token.sol#210)
Reentrancy in BONKI.finalizeTransfer(address,address,uint256,bool,bool,bool) (Token.sol#689-729):
          External calls:
          - check = initializer.checkUser(from,to,amount) (Token.sol#699-703)
          State variables written after the call(s):
          _checkLiquidityAdd(from,to) (Token.sol#717)
                     - _liquidityHolders[from] = true (Token.sol#636)
          BONKI._liquidityHolders (Token.sol#154) can be used in cross function reentrancies:
            BONKI._checkLiquidityAdd(address,address) (Token.sol#633-645)
          - BONKI._hasLimits(address,address) (Token.sol#513-525)
          - BONKI.constructor() (Token.sol#225-240)
- BONKI.excludePresaleAddresses(address,address) (Token.sol#493-511)
          - _checkLiquidityAdd(from,to) (Token.sol#717)
- initializer = Initializer(address(this)) (Token.sol#648)
          BONKI.initializer (Token.sol#212) can be used in cross function reentrancies:
- BONKI._checkLiquidityAdd(address,address) (Token.sol#633-645)
          - BONKI._hasLimits(address,address) (Token.sol#513-525)
- BONKI.enableTrading() (Token.sol#647-666)
         - BONKI.enableTraing() (Token.sol#647-666)

- BONKI.finalizeTransfer(address,address,uint256,bool,bool,bool) (Token.sol#689-729)

- BONKI.removeSniper(address) (Token.sol#411-413)

- BONKI.setInitializer(address) (Token.sol#376-389)

- BONKI.setLpPair(address,bool) (Token.sol#361-374)

- BONKI.setProtectionSettings(bool,bool) (Token.sol#415-417)

- BONKI.takeTaxes(address,uint256,bool,bool) (Token.sol#731-752)
Reentrancy in BONKI.transferOwner(address) (Token.sol#256-272):
          External calls:
          - finalizeTransfer(_owner,newOwner,balanceOf(_owner),false,false,true) (Token.sol#266)
                    - check = initializer.checkUser(from,to,amount) (Token.sol#699-703)
          State variables written after the call(s):
            _owner = newOwner (Token.sol#270)
          BONKI._owner (Token.sol#248) can be used in cross function reentrancies:
          - BONKI._hasLimits(address,address) (Token.sol#513-525)
          - BONKI.constructor() (Token.sol#225-240)
```





Parameter BONKI setProtectionSettings(bool, bool)__antiSksjec (Token.sol4MIS) is not in mixedCase Parameter BONKI.setProtectionSettings(bool,bool)__antiSksck (Token.sol4MIS) is not in mixedCase Constant BONKI.startingSupply (Token.sol#IG) is not in UPPER_CASE_WITH_UNDERSCOMES Constant BONKI._ansec (Token.sol#IG) is not in UPPER_CASE_WITH_UNDERSCOMES Constant BONKI._symbol. (Token.sol#IG) is not in UPPER_CASE_WITH_UNDERSCOMES Constant BONKI._dcimals (Token.sol#IG) is not in UPPER_CASE_WITH_UNDERSCOMES Constant BONKI._trotal (Token.sol#IG) is not in UPPER_CASE_WITH_UNDERSCOMES Variable BONKI._txafaces (Token.sol#IG) is not in mixedCase Variable BONKI._txafaces (Token.sol#IG) is not in mixedCase

ariable BOMNI._ratios (Token.sols181) is not in mixedCase
ariable BOMNI._taxMallets (Token.sols198-302) is not in mixedCase
ariable BOMNI._taxMallets (Token.sols198-302) is not in mixedCase
ariable BOMNI._hasligheenAdded (Token.sols121) is not in mixedCase

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

INFO:Detectors:

Variable inducters.aboliquioity(aboress, aboress, uintzoo, uintzoo

INFO:Slither:Token.sol analyzed (7 contracts with 93 detectors), 44 result(s) found



TESTNET VERSION

1- Approve (passed):

https://testnet.bscscan.com/tx/0x73a5289fb713e99a86a715047bf694edd6f8e1e968e384ea3bbe05f1863c97a6

2- Multi Send Tokens (passed):

https://testnet.bscscan.com/tx/0xf463225e642a124ee966df4938d1ae630049fa9a3acdc0e95bc4aa189a04f5d7

3- Set Contract Swap Enable (passed):

https://testnet.bscscan.com/tx/0xe45f5f3fd7aaa457a2c828ee159e16a233a8c3b0821fc5f488090a7b2484aa85

4- Set Taxes (passed):

https://testnet.bscscan.com/tx/0x47f14c2963001e4ad5597341e27df0f9240131 39d39e0db162f4490ef23bc25f

5- Set Wallets (passed):

https://testnet.bscscan.com/tx/0x7cd698f8b17079421e600437aaef5dcc9b59d90d1014e6c45997b4c4df2146c0

6- Set Ratios (passed):

https://testnet.bscscan.com/tx/0x3eee303632da4bb94130cbd9050cfd2e1de8 0c2749a9a64cdeac5c05e7d68b25

7- Transfer (passed):

https://testnet.bscscan.com/tx/0x5b9cb25b6d4746db6e6f3b4d5a695343700fb4f702c29c8ef909b89575914ba3



MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standarts.

Vulnerabilities are dividend into three primary risk categroies:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity							
Impact	HIGH	Medium	High	Critical			
	MEDIUM	Low	Medium	High			
	LOW	Note	Low	Medium			
		LOW	MEDIUM	HIGH			
	Likelihood						



HIGH RISK FINDING

Enabling Trades

Category: Centralization

Category: Enable Trading

Status: Open

Severity: High

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.

```
function enableTrading() public onlyOwner {
  require(!tradingEnabled, "Trading already enabled!");
  require(_hasLiqBeenAdded, "Liquidity must be added.");
  if (address(initializer) == address(0)){
     initializer = Initializer(address(this));
  }
  try initializer.setLaunch(IpPair, uint32(block.number),
  uint64(block.timestamp), _decimals) {} catch {}
  try initializer.getInits(balanceOf(IpPair)) returns (uint256
  initThreshold, uint256 initSwapAmount) {
     swapThreshold = initThreshold;
     swapAmount = initSwapAmount;
  } catch {}
  tradingEnabled = true;
```



```
allowedPresaleExclusion = false;
launchStamp = block.timestamp;
}
```

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 badfaith actions by the original owner.



ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up.
Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

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