



AUDIT COMPANY



MagicBirdsToken

SMART CONTRACT SECURITY AUDIT

January 2022

CheckDot



Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.



Background

CheckDot was commissioned by MagicBirdsToken to perform an audit of smart contracts:

Mainnet Deployed Contract:

<https://bscscan.com/token/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9>

Github:

<https://github.com/mbtoken/whitepaper/blob/main/magiccodev.txt>

Commit Hash:

e67586589bdece15723be1048ddabc19b60f9cbb

The purpose of the audit was to achieve the following:

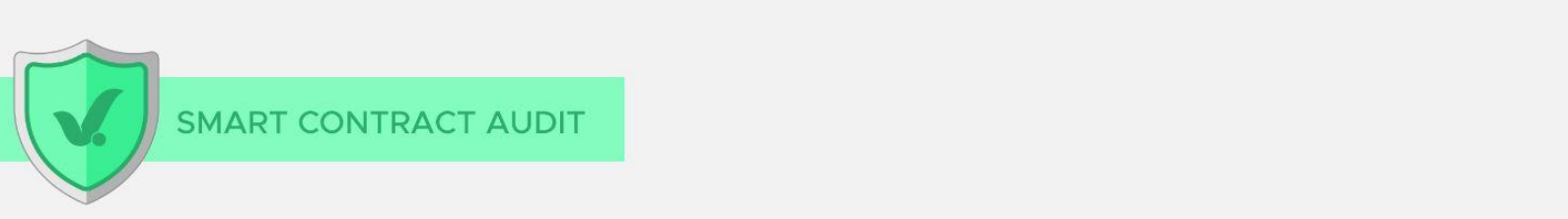
- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.



Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	1 Issue detected
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed
22. Fees detection	1 Issue detected



```
Variable(s) _isExcludedFromFee (#689), _tFeeTotal (#697), _taxFee (#703), _previousTaxFee (#704), _liquidityFee (#706), _previousLiquidityFee (#707)
- Suspected fees in the Contract
Reentrancy in MagicBirdsToken._transfer(address,address,uint256)
(critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#988-1032):
  External calls:
  - swapAndLiquify(contractTokenBalance) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1019)
    - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1080-1087)
    - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1066-1072)
  External calls sending eth:
  - swapAndLiquify(contractTokenBalance) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1019)
    - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1080-1087)
  State variables written after the call(s):
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _rOwned[address(this)] = _rOwned[address(this)].add(rLiquidity)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#944)
  - _rOwned[sender] = _rOwned[sender].sub(rAmount) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1113)
  - _rOwned[sender] = _rOwned[sender].sub(rAmount) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1122)
  - _rOwned[sender] = _rOwned[sender].sub(rAmount) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1133)
  - _rOwned[sender] = _rOwned[sender].sub(rAmount) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#860)
  - _rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1114)
  - _rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1124)
  - _rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1134)
  - _rOwned[recipient] = _rOwned[recipient].add(rTransferAmount)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#862)
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _rTotal = _rTotal.sub(rFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#899)
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _tOwned[address(this)] = _tOwned[address(this)].add(tLiquidity)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#946)
  - _tOwned[sender] = _tOwned[sender].sub(tAmount) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#859)
  - _tOwned[sender] = _tOwned[sender].sub(tAmount) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1132)
  - _tOwned[recipient] = _tOwned[recipient].add(tTransferAmount)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1123)
  - _tOwned[recipient] = _tOwned[recipient].add(tTransferAmount)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#861)

MagicBirdsToken.addLiquidity(uint256,uint256) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1075-1088) ignores
return value by uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp)
(critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1080-1087)

MagicBirdsToken.allowance(address,address).owner (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#776) shadows:
- Ownable.owner() (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#412-414) (function)
MagicBirdsToken._approve(address,address,uint256).owner (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#980) shadows:
- Ownable.owner() (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#412-414) (function)

MagicBirdsToken.setTaxFeePercent(uint256) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#876-878) should emit an
event for:
- _taxFee = taxFee (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#877)
MagicBirdsToken.setLiquidityFeePercent(uint256) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#880-882) should emit
an event for:
- _liquidityFee = liquidityFee (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#881)
MagicBirdsToken.setMaxTxPercent(uint256) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#884-888) should emit an event
for:
- _maxTxAmount = _tTotal.mul(maxTxPercent).div(10 ** 2) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#885-887)

Reentrancy in MagicBirdsToken._transfer(address,address,uint256)
(critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#988-1032):
  External calls:
  - swapAndLiquify(contractTokenBalance) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1019)
    - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1080-1087)
    - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1066-1072)
  External calls sending eth:
  - swapAndLiquify(contractTokenBalance) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1019)
    - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1080-1087)
  State variables written after the call(s):
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _liquidityFee = _previousLiquidityFee (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#973)
  - _liquidityFee = 0 (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#968)
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _previousLiquidityFee = _liquidityFee (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#965)
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _previousTaxFee = _taxFee (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#964)
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _tFeeTotal = _tFeeTotal.add(tFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#900)
  - _tokenTransfer(from,to,amount,takeFee) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1031)
  - _taxFee = _previousTaxFee (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#972)
  - _taxFee = 0 (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#967)
Reentrancy in MagicBirdsToken.constructor() (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#732-748):
  External calls:
  - uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this),_uniswapV2Router.WETH())
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#737-738)
  State variables written after the call(s):
  - _isExcludedFromFee[owner[]] = true (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#744)
  - _isExcludedFromFee[address(this)] = true (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#745)
  - uniswapV2Router = _uniswapV2Router (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#741)
Reentrancy in MagicBirdsToken.swapAndLiquify(uint256) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1034-1055):
  External calls:
  - swapTokensForEth(half) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1046)
    - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1066-1072)
  - addLiquidity(otherHalf,newBalance) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1052)
    - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1080-1087)
  External calls sending eth:
  - addLiquidity(otherHalf,newBalance) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1052)
    - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp)
  (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1080-1087)
  State variables written after the call(s):
  - addLiquidity(otherHalf,newBalance) (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#1052)
  - _allowances[owner][spender] = amount (critic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604C89.bscscan.com-MagicBirdsToken.sol#984)
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Reentrancy in MagicBirdsToken.transferFrom(address,address,uint256)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#785-789):
  External calls:
    - _transfer(sender,recipient,amount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#786)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
    - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1066-1072)
  External calls sending eth:
    - _transfer(sender,recipient,amount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#786)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
    State variables written after the call(s):
      - _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance))
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#787)
      - _allowances[owner][spender] = amount (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#984)
Reentrancy in MagicBirdsToken._transfer(address,address,uint256)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#988-1032):
  External calls:
    - swapAndLiquify(contractTokenBalance) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1019)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
      - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1066-1072)
  External calls sending eth:
    - swapAndLiquify(contractTokenBalance) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1019)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
  Event emitted after the call(s):
    - Transfer(sender,recipient,tTransferAmount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1117)
      - _tokenTransfer(from,to,amount,takeFee) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1031)
    - Transfer(sender,recipient,tTransferAmount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1127)
      - _tokenTransfer(from,to,amount,takeFee) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1031)
    - Transfer(sender,recipient,tTransferAmount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1137)
      - _tokenTransfer(from,to,amount,takeFee) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1031)
    - Transfer(sender,recipient,tTransferAmount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#865)
      - _tokenTransfer(from,to,amount,takeFee) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1031)
Reentrancy in MagicBirdsToken.constructor() (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#732-748):
  External calls:
    - uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this),_uniswapV2Router.WETH())
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#737-738)
  Event emitted after the call(s):
    - Transfer(address(0),_msgSender(),tTotal) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#747)
Reentrancy in MagicBirdsToken.swapAndLiquify(uint256) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1034-1055):
  External calls:
    - swapTokensForEth(half) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1046)
      - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1066-1072)
    - addLiquidity(otherHalf,newBalance) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1052)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
  External calls sending eth:
    - addLiquidity(otherHalf,newBalance) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1052)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#985)
      - addLiquidity(otherHalf,newBalance) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1052)
    - SwapAndLiquify(half,newBalance,otherHalf) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1054)
Reentrancy in MagicBirdsToken.transferFrom(address,address,uint256)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#785-789):
  External calls:
    - _transfer(sender,recipient,amount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#786)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
      - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1066-1072)
  External calls sending eth:
    - _transfer(sender,recipient,amount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#786)
      - uniswapV2Router.addLiquidityETH(value: ethAmount){address(this),tokenAmount,0,0,owner(),block.timestamp)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#1080-1087)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#985)
      - _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance))
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#787)
Ownable.unlock() (crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#459-464) uses timestamp for comparisons
Dangerous comparisons:
  - require(bool,string)(now > _lockTime,Contract is locked until 7 days)
(crytic-export/etherscan-contracts/0xbD71E65149CeA83a1Dda53A9c1D2D30053604CB9.bscscan.com-MagicBirdsToken.sol#461)
```



Issues Categories

Total: [0 High, 1 Medium, 2 Low]

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

1. Reentrancy in “`MagicBirdsToken._transfer(address,address,uint256)`” #988-1032

External calls:

`swapAndLiquify(contractTokenBalance)`

External calls sending eth:

`swapAndLiquify(contractTokenBalance)`

State variables written after the call(s):

`_tokenTransfer(from,to,amount,takeFee)`

✓ Low Severity Issues

1. Unused Return in “`MagicBirdsToken.addLiquidity(uint256,uint256)`” #1075-1088

ignores return value by `uniswapV2Router.addLiquidityETH`

2. Suspected fees in the Contract:

Variable(s) `_isExcludedFromFee` (#689), `_tFeeTotal` (#697), `_taxFee` (#703), `_previousTaxFee` (#704), `_liquidityFee` (#706), `_previousLiquidityFee` (#707).



Conclusion

Smart contracts do not contain high severity issues!

CheckDot note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.
