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SMART CONTRACT

Security Audit Report

Customer: Bobo Doge Coin

Website: bobodogecoin.com

Platform: Binance Smart Chain

Language: Solidity

Date: August 9th, 2021

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Introduction

EtherAuthority was contracted by the Bobo Doge Coin Token team to perform the Security audit of the Bobo Doge Coin Token smart contract code. The audit has been performed using manual analysis as well as using automated software tools. This report presents all the findings regarding the audit performed on August 9th, 2021.

The purpose of this audit was to address the following:

- Ensure that all claimed functions exist and function correctly.
- Identify any security vulnerabilities that may be present in the smart contract.

Project Background

Bobo Doge Coin is a BEP20 standard token smart contract based on Binance Smart Chain (BSC). It has additional features like deflection, liquidity, swapping, burning tokens, etc. BoboDogeCoin is the backbone of its ecosystem.

Audit scope

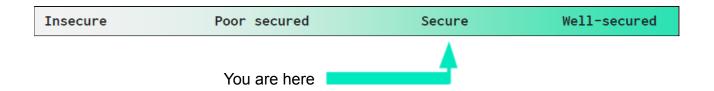
Name	Code Review and Security Analysis Report for Bobo Doge Coin Token Smart Contract	
Platform	BSC / Solidity	
File	BoboDogeCoin.sol	
Smart Contract Online Code	https://bscscan.com/address/0xc5d0187f762a34690324 0e730919ee549d5145fe#code	
File MD5 Hash 83F568C086EB1006F03E39485B12E9A8		
Audit Date	August 9th, 2021	
Revision Date	August 12th, 2021	

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
Name: Bobo Doge Coin	YES, This is valid.
Symbol: BoboDoge	YES, This is valid.
Decimals: 9	YES, This is valid.
Token Supply: 5200 Trillion	YES, This is valid.
No more new tokens generated.	YES, This is valid.
 2% tax is collected and distributed to holders for HODLing 9% buyback and marketing tax is collected and 2% of it is sent for marketing fund and other 7% is used to buyback the tokens 5% add liquidity 	YES, This is valid. Owner can change this fee percentage anytime. So, It is very important to keep the owner's wallet private key secured.

Audit Summary

According to the standard audit assessment, Customer's solidity smart contracts are "Secured". These contracts also have owner functions (described in the centralization section below), which does not make everything 100% decentralized. Thus, the owner must execute those smart contract functions as per the business plan.



We used various tools like MythX, Slither and Remix IDE. At the same time this finding is based on critical analysis of the manual audit.

All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the Audit overview section. General overview is presented in AS-IS section and all identified issues can be found in the Audit overview section.

We found 0 critical, 0 high, 0 medium and 5 low and some very low level issues. These issues are acknowledged while revisions.

Investors Advice: Technical audit of the smart contract does not guarantee the ethical nature of the project. Any owner controlled functions should be executed by the owner with responsibility. All investors/users are advised to do their due diligence before investing in the project.

Technical Quick Stats

Main Category	Main Category Subcategory	
Contract	Solidity version not specified	Passed
Programming	Solidity version too old	Moderated
	Integer overflow/underflow	Passed
	Function input parameters lack of check	Passed
	Function input parameters check bypass	Passed
	Function access control lacks management	Passed
	Critical operation lacks event log	Passed
	Human/contract checks bypass	Passed
	Random number generation/use vulnerability	Passed
	Fallback function misuse	Passed
	Race condition	Passed
	Logical vulnerability	Passed
	Features claimed	Passed
	Other programming issues	Moderated
Code	Function visibility not explicitly declared	Passed
Specification	Var. storage location not explicitly declared	Passed
	Use keywords/functions to be deprecated	Passed
	Other code specification issues	Passed
Gas Optimization	"Out of Gas" Issue	Passed
	High consumption 'for/while' loop	Moderated
	High consumption 'storage' storage	Passed
	Assert() misuse	Passed
Business Risk	The maximum limit for mintage not set	Passed
	"Short Address" Attack	Passed
	"Double Spend" Attack	Passed

Overall Audit Result: PASSED

Code Quality

This audit scope has 1 smart contract. This smart contract also contains Libraries, Smart

contracts inherits and Interfaces. These are compact and well written contracts.

The libraries in Bobo Doge Coin are part of its logical algorithm. A library is a different type

of smart contract that contains reusable code. Once deployed on the blockchain (only

once), it is assigned a specific address and its properties / methods can be reused many

times by other contracts in the Bobo Doge Coin Token token.

The Bobo Doge Coin Token team has not provided scenario and unit test scripts, which

would have helped to determine the integrity of the code in an automated way.

Some code parts are **not well** commented on smart contracts.

Documentation

We were given a Bobo Doge Coin smart contracts code in the form of a BscScn web link.

The hash of that code is mentioned above in the table.

As mentioned above, some code parts are **not well** commented. So it is difficult to quickly

understand the programming flow as well as complex code logic. Comments are very

helpful in understanding the overall architecture of the protocol.

Another source of information was its official website https://www.bobodogecoin.com/

which provided rich information about the project architecture and tokenomics.

Use of Dependencies

As per our observation, the libraries are used in this smart contract infrastructure that are

based on well known industry standard open source projects. And their core code blocks

are written well.

Apart from libraries, its functions are used in external smart contract calls.

AS-IS overview

BoboDogeCoin.sol

(1) Interface

- (a) IERC20
- (b) IUniswapV2Factory
- (c) IUniswapV2Pair
- (d) IUniswapV2Router01
- (e) IUniswapV2Router02

(2) Inherited contracts

- (a) Context
- (b) Ownable

(3) Usages

- (a) using SafeMath for uint256;
- (b) using Address for address;

(4) Events

- (a) event RewardLiquidityProviders(uint256 tokenAmount);
- (b) event BuyBackEnabledUpdated(bool enabled);
- (c) event SwapAndLiquifyEnabledUpdated(bool enabled);
- (d) event SwapAndLiquify(uint256 tokensSwapped, uint256 ethReceived, uint256 tokensIntoLiqudity);
- (e) event SwapETHForTokens(uint256 amountIn,address[] path);
- (f) event SwapTokensForETH(uint256 amountIn,address[] path);

(5) Functions

SI.	Functions	Type	Observation	Conclusion
1	lockTheSwap	modifier	Passed	No Issue
2	name	read	Passed	No Issue
3	decimals	read	Passed	No Issue
4	symbol	read	Passed	No Issue
5	totalSupply	read	Passed	No Issue
6	balanceOf	read	Passed	No Issue
7	transfer	write	Passed	No Issue

8	allowance	read	Passed	No Issue
9		write	Passed	No Issue
10	approve transferFrom			No Issue
11		read	Passed	
	increaseAllowance	write	Passed	No Issue
12	decreaseAllowance	write	Passed	No Issue
13	isExcludedFromReward	read	Passed	No Issue
14	totalFees	read	Passed	No Issue
15	minimumTokensBeforeSwap	read	Passed	No Issue
40	Amount		Danad	NI- I
16	buyBackUpperLimitAmount	read	Passed	No Issue
17	deliver	write	Passed	No Issue
18	reflectionFromToken	read	Passed	No Issue
19	tokenFromReflection	read	Passed	No Issue
20	excludeFromReward	write	access only Owner	No Issue
21	includeInReward	external	Possibility of High	Refer audit
		••	gas consumption	finding section
22	approve	write	Passed	No Issue
23	_transfer	write	Passed	No Issue
24	callBuyBack	external	access only Owner	No Issue
25	swapTokens	write	Passed	No Issue
26	buyBackTokens	write	Passed	No Issue
27	swapTokensForEth	write	Passed	No Issue
28	swapETHForTokens	write	Passed	No Issue
29	addLiquidity	write	Centralized risk	Refer audit
			possibility	finding section
30	_tokenTransfer	write	Passed	No Issue
31	_transferStandard	write	Passed	No Issue
32	_transferToExcluded	write	Passed	No Issue
33	transferFromExcluded	write	Passed	No Issue
34	_transferBothExcluded	write	Passed	No Issue
35	_reflectFee	write	Passed	No Issue
36	_getValues	write	Passed	No Issue
37	getTValues	read	Passed	No Issue
38	_getRValues	write	Passed	No Issue
39	getRate	read	Passed	No Issue
40	_getCurrentSupply	read	Possibility of High	Refer audit
			gas consumption	finding section
41	takeLiquidity	write	Passed	No Issue
42	calculateTaxFee	read	Passed	No Issue
43	calculateLiquidityFee	read	Passed	No Issue
44	removeAllFee	write	Passed	No Issue
45	updateWhiteListFee	write	Passed	No Issue
46	restoreAllFee	write	Passed	No Issue
47	updateFeeOfWhiteList	external	access only Owner	No Issue
48	isExcludedFromFee	write	Passed	No Issue
49	excludeFromFee	write	access only Owner	No Issue
50	includeInFee	write	access only Owner	No Issue
51	setTaxFeePercent	external	access only Owner	No Issue

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52	setLiquidityFeePercent	external	access only Owner	No Issue
53	setMaxTxAmount	external	access only Owner	No Issue
54	setNumTokensSellToAddTo	external	access only Owner	No Issue
	Liquidity		·	
55	setBuybackUpperLimit	external	access only Owner	No Issue
56	setMarketingAddress	external	access only Owner	No Issue
57	setBuyBackAddress	external	access only Owner	No Issue
58	setSwapAndLiquifyEnabled	write	access only Owner	No Issue
59	setBuyBackEnabled	write	access only Owner	No Issue
60	addWhiteList	external	access only Owner	No Issue
61	removeWhiteList	external	access only Owner	No Issue
62	prepareForPreSale	external	access only Owner	No Issue
63	afterPreSale	external	access only Owner	No Issue
64	transferToAddressETH	write	Passed	No Issue
65	receive	external	Passed	No Issue
66	_msgData	internal	Passed	No Issue
67	_msgSender	internal	Passed	No Issue
68	owner	read	Passed	No Issue
69	onlyOwner	modifier	Passed	No Issue
70	renounceOwnership	write	access only Owner	No Issue
71	transferOwnership	write	access only Owner	No Issue
72	getUnlockTime	read	Passed	No Issue
73	getTime	read	Passed	No Issue
74	lock	write	access only Owner	No Issue
75	unlock	write	Possibility of Regain	Refer audit
			ownership	finding section

Severity Definitions

Risk Level	Description	
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to token loss etc.	
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial	
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose	
Low-level vulnerabilities are mostly related to outdated unused etc. code snippets, that can't have significant impact on execution		
Lowest / Code Style / Best Practice	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.	

Audit Findings

Critical

No Critical severity vulnerabilities were found.

High

No High severity vulnerabilities were found.

Medium

No Medium severity vulnerabilities were found.

Low

(1) Possible high gas consuming loop

```
function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}</pre>
```

If there are so many excluded wallets, then this logic will fail, as it might hit the block's gas limit. If there are very limited exceptions, then this will work, but will cost more gas.

Resolution: We suggest excluding limited wallets only.

Status: acknowledged

(2) Possibility to regain the ownership:

Owner can renounce ownership and make contract without owner but he can regain ownership by following the steps below:

- 1. Owner calls the lock function in contract to set the current owner as previousOwner.
- 2. Owner calls unlock to unlock the contract and set owner = previousOwner.
- 3. Owner called renounceOwnership to leave the contract without the owner.
- 4. Owner calls unlock to regain ownership.

Resolution: We suggest removing these lock/unlock functions as this seems not serving a great purpose. Otherwise, always renounce ownership first before calling the lock function.

Status: acknowledged

(3) Make variables constant

```
string private _name = "Bobo Doge Coin";
string private _symbol = "BoboDoge";
uint8 private _decimals = 9;
```

name, symbol, decimals. These variables will be unchanged. So, please make it constant. It will save some gas.

Resolution: Declare those variables as constant. Just put a constant keyword.

Status: acknowledged

(4) Centralized risk in addLiquidity

```
function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
    // approve token transfer to cover all possible scenarios
    _approve(address(this), address(uniswapV2Router), tokenAmount);

    // add the liquidity
    uniswapV2Router.addLiquidityETH{value: ethAmount}(
        address(this),
        tokenAmount,
        0, // slippage is unavoidable
        owner(),
        block.timestamp + 360
    );
}
```

In addLiquidity function, the owner gets funds from the Pool. If the private key of the owner's wallet is compromised, then it will create a problem.

Resolution: Ideally this can be a governance smart contract. On another hand, the owner can accept this risk and handle the private key very securely.

Status: acknowledged

- (5) Missing Events: every function which is state changing, must emit an event. There are missing Events log for some functions like:
 - excludeFromFee
 - includeInFee
 - setTaxFeePercent
 - setLiquidityFeePercent
 - setMaxTxAmount
 - setNumTokensSellToAddToLiquidity
 - setBuybackUpperLimit
 - setMarketingAddress
 - setBuyBackAddress
 - setSwapAndLiquifyEnabled
 - setBuyBackEnabled
 - addWhiteList
 - removeWhiteList
 - deliver.

Very Low / Discussion / Best practices:

(1) Unused function

```
function transferToAddressETH(address payable recipient, uint256 amount) private {
   recipient.transfer(amount);
}
```

The function transferToAddressETH is not used anywhere. Although this does not create any vulnerability, it's better to remove it to make the code clean.

Resolution: Please remove this function.

Status: acknowledged .

(2) External instead of public:

If any function is not called from inside the smart contract, then it is better to declare it as external instead of public. As it saves some gas as well.

https://ethereum.stackexchange.com/questions/19380/external-vs-public-best-practices

Status: acknowledged .

Centralization

These smart contracts have some functions which can be executed by Admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble. Following are Admin functions:

- excludeFromReward: The Owner can check that the account is already excluded from reward..
- includeInReward: The Owner can check that the account is already excluded from reward.
- callBuyBack: The Owner can call buyBackTokens function.
- updateFeeOfWhiteList: The Owner can update the fee of the whitelist.
- excludeFromFee: The Owner can check exclude Fee.
- includeInFee: The Owner can include a fee account bool.
- setTaxFeePercent: The Owner can set a tax Fee.
- setLiquidityFeePercent: The Owner can set liquidity Fee.
- setMaxTxAmount: The Owner can set a max tax amount.
- setNumTokensSellToAddToLiquidity: The Owner can set minimum Tokens Before Swap.
- setBuybackUpperLimit: The Owner can set buy Back Limit.
- setMarketingAddress: The Owner can set a marketing address.
- setBuyBackAddress: The Owner can set a buy back address.
- setSwapAndLiquifyEnabled: The Owner can set swap and liquify enable status.
- setBuyBackEnabled: The Owner can set buy back enable status.
- addWhiteList: The Owner can add wallet address in whitelist.
- removeWhiteList: The Owner can remove wallet address from whitelist.
- prepareForPreSale: The Owner can set SwapAndLiquifyEnabled function , tax fee,
 _liquidityAndBuyBackFee , maxTxAmoun prepare for presale.
- afterPreSale: The Owner can set SwapAndLiquifyEnabled function , tax fee,
 liquidityAndBuyBackFee , maxTxAmount after presale.

Conclusion

We were given a contract code. And we have used all possible tests based on given

objects as files. We observed some issues in the smart contracts and those issues are

acknowledged in revisions. So, it's good to go to production.

Since possible test cases can be unlimited for such smart contracts protocol, we provide

no such guarantee of future outcomes. We have used all the latest static tools and manual

observations to cover maximum possible test cases to scan everything.

Smart contracts within the scope were manually reviewed and analyzed with static

analysis tools. Smart Contract's high level description of functionality was presented in

As-is overview section of the report.

Audit report contains all found security vulnerabilities and other issues in the reviewed

code.

Security state of the reviewed contract, based on standard audit procedure scope, is

"Secured".

Our Methodology

We like to work with a transparent process and make our reviews a collaborative effort.

The goals of our security audits are to improve the quality of systems we review and aim

for sufficient remediation to help protect users. The following is the methodology we use in

our security audit process.

Manual Code Review:

In manually reviewing all of the code, we look for any potential issues with code logic, error

handling, protocol and header parsing, cryptographic errors, and random number

generators. We also watch for areas where more defensive programming could reduce the

risk of future mistakes and speed up future audits. Although our primary focus is on the

in-scope code, we examine dependency code and behavior when it is relevant to a

particular line of investigation.

Vulnerability Analysis:

Our audit techniques included manual code analysis, user interface interaction, and

whitebox penetration testing. We look at the project's web site to get a high level

understanding of what functionality the software under review provides. We then meet with

the developers to gain an appreciation of their vision of the software. We install and use

the relevant software, exploring the user interactions and roles. While we do this, we

brainstorm threat models and attack surfaces. We read design documentation, review

other audit results, search for similar projects, examine source code dependencies, skim

open issue tickets, and generally investigate details other than the implementation.

Documenting Results:

We follow a conservative, transparent process for analyzing potential security vulnerabilities and seeing them through successful remediation. Whenever a potential issue is discovered, we immediately create an Issue entry for it in this document, even though we have not yet verified the feasibility and impact of the issue. This process is conservative because we document our suspicions early even if they are later shown to not represent exploitable vulnerabilities. We generally follow a process of first documenting the suspicion with unresolved questions, then confirming the issue through code analysis, live experimentation, or automated tests. Code analysis is the most tentative, and we strive to provide test code, log captures, or screenshots demonstrating our confirmation. After this we analyze the feasibility of an attack in a live system.

Suggested Solutions:

We search for immediate mitigations that live deployments can take, and finally we suggest the requirements for remediation engineering for future releases. The mitigation and remediation recommendations should be scrutinized by the developers and deployment engineers, and successful mitigation and remediation is an ongoing collaborative process after we deliver our report, and before the details are made public.

Disclaimers

EtherAuthority.io Disclaimer

EtherAuthority team has analyzed this smart contract in accordance with the best industry practices at the date of this report, in relation to: cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report, (Source Code); the Source Code compilation, deployment and functionality (performing the intended functions).

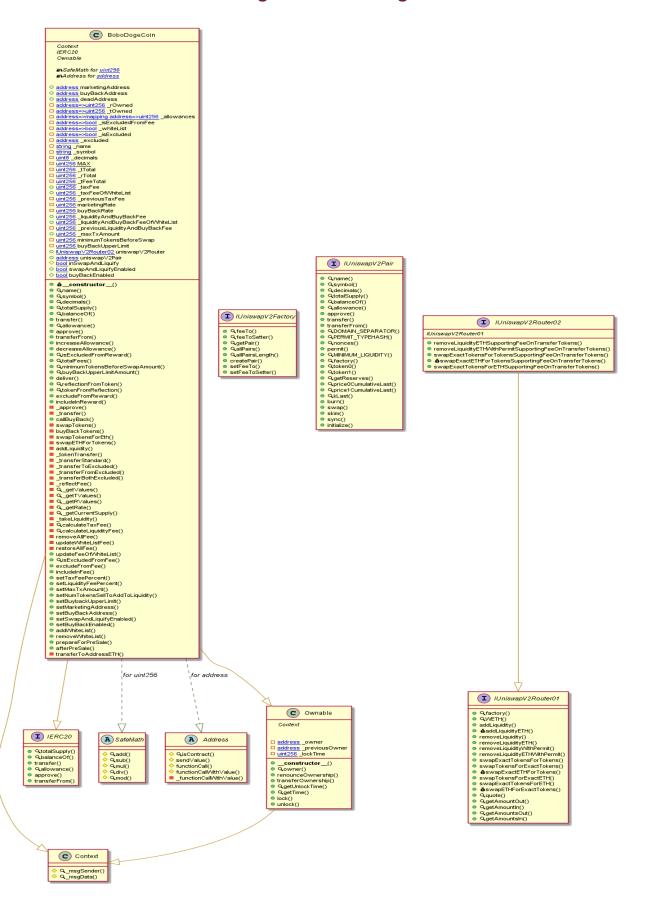
Due to the fact that the total number of test cases are unlimited, the audit makes no statements or warranties on security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bugfree status or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only. We also suggest conducting a bug bounty program to confirm the high level of security of this smart contract.

Technical Disclaimer

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have their own vulnerabilities that can lead to hacks. Thus, the audit can't guarantee explicit security of the audited smart contracts.

Appendix

Code Flow Diagram - Bobo Doge Coin



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Slither Results Log

Slither log >> BoboDogeCoin.sol

```
ncy in BoboDogeCoin._transfer(address,address,uint256) (BoboDogeCoin.sol#614-653):
External calls:
                                                             nnat catts.
napTokens(contractTokenBalance) (BoboDogeCoin.sol#632)
- uniswapVZRouter.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
      Coin.sol#736-743)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,0,0wner(),block.timestamp + 360)

BoboDogeCoin.sol#703-709)

External calls sending eth:
- swapTokens(contractTokenBalance) (BoboDogeCoin.sol#632)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog

Coin.sol#736-743)

State variables written after the value:
  - uniswaptOkenStantay (buscussessaturus)
- uniswaptOkenStantay (buscussessaturus)
- uniswaptOkenStantay (buscussessaturus)
- uniswaptOkenStantay (buscussessaturus)
- tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#852)
- liquidityAndBuyBackFee = previousLiquidityAndBuyBackFee (BoboDogeCoin.sol#892)
- liquidityAndBuyBackFee = 0 (BoboDogeCoin.sol#877)
- liquidityAndBuyBackFee = liquidityAndBuyBackFee (BoboDogeCoin.sol#877)
- liquidityAndBuyBackFee = liquidityAndBuyBackFeeOfWhiteList (BoboDogeCoin.sol#887)
- tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#852)
- rOwned[address(this)] = rOwned[address(this)] add(rLiquidity) (BoboDogeCoin.sol#853)
- rOwned[sender] = rOwned[sender].sub(rAmount) (BoboDogeCoin.sol#778)
- rOwned[sender] = rOwned[sender].sub(rAmount) (BoboDogeCoin.sol#799)
- rOwned[sender] = rOwned[sender].sub(rAmount) (BoboDogeCoin.sol#799)
- rOwned[sender] = rOwned[recipient].add(rTransferAmount) (BoboDogeCoin.sol#780)
- rOwned[recipient] = rOwned[recipient].add(rTransferAmount) (BoboDogeCoin.sol#780)
- rOwned[recipient] = rOwned[recipient].add(rTransferAmount) (BoboDogeCoin.sol#780)
- rowned[recipient] = rowned[recipient].add(rTransferAmount) (BoboDogeCoin.sol#790)
- rowned[recipient] = rowned[recipient].add(rTransferAmount) (BoboDogeCoin.sol#801)
- tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#808)
- tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#808)
- towned[address(this)] = towned[address(this)].add(tLiquidity) (BoboDogeCoin.sol#855)
- rowned[sender] = towned[sender].sub(tAmount) (BoboDogeCoin.sol#788)
- towned[sender] = towned[sender].sub(tAmount) (B
Reference: https://github.com/cfyfit/3ftthe/ywity/serviner/wity/serviner/wity/serviner/wity/serviner/wity/serviner/wity/serviner/wity/serviner/wity/serviner/wity/serviner/wity/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/serviner/servine
 Reference: https://github.com/er/size.
INFO:Detectors:
BoboDogeCoin.allowance(address,address).owner (BoboDogeCoin.sol#516) shadows:
- Ownable.owner() (BoboDogeCoin.sol#155-157) (function)
BoboDogeCoin._approve(address,address,uint256).owner (BoboDogeCoin.sol#606) shadows:
- Ownable.owner() (BoboDogeCoin.sol#155-157) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
    INFO:Detectors:
Reentrancy in BoboDogeCoin._transfer(address,address,uint256) (BoboDogeCoin.sol#614-653):
External calls:
                                                  swapTokens(contractTokenBalance) (BoboDogeCoin.sol#632)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
  - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
(BoboDogeCoin.sol#703-709)
External calls sending eth:
- swapTokens(contractTokenBalance) (BoboDogeCoin.sol#632)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
                                        ol#736-743)
State variables written after the call(s):
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#652)
- _previousLiquidityAndBuyBackFee = _liquidityAndBuyBackFee (BoboDogeCoin.sol#874)
- _previousLiquidityAndBuyBackFee = _liquidityAndBuyBackFee (BoboDogeCoin.sol#884)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#652)
- _previousTaxFee = _taxFee (BoboDogeCoin.sol#873)
- _previousTaxFee = _taxFee (BoboDogeCoin.sol#883)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#652)
```

```
- _previousTaxFee = _taxFee (BoboDogeCoin.sol#883)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#852)
- _tFeeTotal = _tFeeTotal.add(tFee) (BoboDogeCoin.sol#809)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#852)
- _taxFee = _previousTaxFee (BoboDogeCoin.sol#891)
- _taxFee = 0 (BoboDogeCoin.sol#876)
- _taxFee = _taxFeeOfWhiteList (BoboDogeCoin.sol#886)
Reentrancy in BoboDogeCoin.constructor() (BoboDogeCoin.sol#476-488):
External calls:
- _uniswapV2Pair = TUniswapV2Factory(_uniswapV2Router.factory()).cr
cterinal Catts.
swapTokensForEth(marketingAmount,marketingAddress) (BoboDogeCoin.sol#669)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
 BoboDogeCoin.sol#703-709)
                   .odi.sot#/03-709)
swapTokensForEth(buyBackAmount,buyBackAddress) (BoboDogeCoin.sol#673)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
 - swapTokensForEth(swap2BnbTokenAmount,address(address(this))) (BoboDogeCoin.sol#680)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)

(BoboDogeCoin.sol#703-709)
 (BoboDogeCoin.sol#703-709)
State variables written after the call(s):
- swapTokensForEth(swap2BnbTokenAmount,address(address(this))) (BoboDogeCoin.sol#680)
- _allowances[owner][spender] = amount (BoboDogeCoin.sol#610)
Reentrancy in BoboDogeCoin.swapTokens(uint256) (BoboDogeCoin.sol#659-685):
External calls:
                   BoboDogeCoin.sol#703-709)
                   oun.sour.po-roe)
swapTokensForEth(buyBackAmount,buyBackAddress) (BoboDogeCoin.sol#673)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
 - swapTokensForEth(swap2BnbTokenAmount,address(address(this))) (BoboDogeCoin.sol#680)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)

(BoboDogeCoin.sol#703-709)
                   addLiquidity(swap2BnbTokenAmount,swapBnbAmount) (BoboDogeCoin.sol#684)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,0,owner(),block.timestamp + 360) (BoboDog
               ol#:/36-743)
External calls sending eth:
- addLiquidity(swap2BnbTokenAmount,swapBnbAmount) (BoboDogeCoin.sol#684)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
- uniswapV2Router.aug.tqututtyEnqtvace.e.

- uniswapV2Router.aug.tqututtyEnqtvace.e.

State variables written after the call(s):

- addLiquidity(swap2BnbTokenAmount,swapBnbAmount) (BoboDogeCoin.sol#684)

- allowances[owner][spender] = amount (BoboDogeCoin.sol#610)

Reentrancy in BoboDogeCoin.transferFrom(address,address,uint256) (BoboDogeCoin.sol#525-529):

External calls:

- _transfer(sender,recipient,amount) (BoboDogeCoin.sol#526)

- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDogeCoin.sol#736-743)
 - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
(BoboDogeCoin.sol#703-709)
External calls sending eth:
- _transfer(sender,recipient,amount) (BoboDogeCoin.sol#526)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
               State variables written after the call(s):
- _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (BoboDogo
```

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State variables written after the call(s):
- _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (BoboDogeC
pin.sol#527)
-_allowances[owner][spender] = amount (BoboDogeCoin.sol#610)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-2
INFO:Detectors:
 nnro:Detectors:
Reentrancy in BoboDogeCoin._transfer(address,address,uint256) (BoboDogeCoin.sol#614-653):
External calls:
- swapTokens(contractTokenBalance) (BoboDogeCoin.sol#632)
- uniswapV2Router.addLiquidityETH{walue: ethAmount}{address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
 - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
(BoboDogeCoin.sol#703-709)
External calls sending eth:
- swapTokens(contractTokenBalance) (BoboDogeCoin.sol#632)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this eCoin.sol#736-743)

Event emitted after the call(s):
- Transfer(sender,recipient,tTransferAmount) (BoboDogeCoin.sol#773)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#652)
- Transfer(sender,recipient,tTransferAmount) (BoboDogeCoin.sol#783)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#652)
- Transfer(sender,recipient,tTransferAmount) (BoboDogeCoin.sol#793)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#652)
- Transfer(sender,recipient,tTransferAmount) (BoboDogeCoin.sol#652)
- Transfer(sender,recipient,tTransferAmount) (BoboDogeCoin.sol#652)
- _tokenTransfer(from,to,amount,takeFee) (BoboDogeCoin.sol#652)

Reentrancy in BoboDogeCoin.constructor() (BoboDogeCoin.sol#476-488):
- _uniswapV2Pair = IUniswapV2Factory( uniswapV2Router,factory()).createPs
                  Event emitted after the call(s):
- Transfer(address(0),_msgSender(),_tTotal) (BoboDogeCoin.sol#487)
ncy in BoboDogeCoin.swapETHForTokens(uint256) (BoboDogeCoin.sol#714-729):
External calls:
 External Catus
- uniswapV2Router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(0,path,deadAddress,block.timestamp.add(300))
(BoboDogeCoin.sol#721-726)
Event emitted after the call(s):
- SwapETHForTokens(amount,path) (BoboDogeCoin.sol#728)
       Event emitted after the call(s):
- SwapETHForTokens(amount,path) (BoboDogeCoin.sol#728)
entrancy in BoboDogeCoin.swapTokens(uint256) (BoboDogeCoin.sol#659-685):
External calls:
 - swapTokensForEth(marketingAmount,marketingAddress) (BoboDogeCoin.sol#669)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
(BoboDogeCoin.sol#703-709)
 - swapTokensForEth(buyBackAmount,buyBackAddress) (BoboDogeCoin.sol#673)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
(BoboDogeCoin.sol#703-709)
 (BoboDogeCoin.sol#703-709)

Event emitted after the call(s):
   - Approval(owner,spender,amount) (BoboDogeCoin.sol#611)
   - swapTokensForEth(buyBackAmount,buyBackAddress) (BoboDogeCoin.sol#673)
   - SwapTokensForETH(tokenAmount,path) (BoboDogeCoin.sol#711)
   - swapTokensForEth(buyBackAmount,buyBackAddress) (BoboDogeCoin.sol#673)

Reentrancy in BoboDogeCoin.swapTokens(uint256) (BoboDogeCoin.sol#659-685):
   External calls:
   - swapTokensForEth(marketingAmount,marketingAddress) (BoboDogeCoin.sol#669)
   - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)

(BoboDogeCoin.sol#703-709)
- swapiokensroietii(swapzonbiokensmooni,aduress(aduress(tii
Reentrancy in BoboDogeCoin.swapTokens(uint256) (BoboDogeCoin.sol#659-685):
External calls:
 External calls:
- swapTokensForEth(marketingAmount,marketingAddress) (BoboDogeCoin.sol#669)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
(BoboDogeCoin.sol#703-709)
- swapTokensForEth(buyBackAmount,buyBackAddress) (BoboDogeCoin.sol#673)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
```

```
apV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360
 BoboDogeCoin.sol#703-709
                      swapTokensForEth(swap2BnbTokenAmount,address(address(this))) (BoboDogeCoin.sol#680)
_ uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,recipient,block.timestamp + 360)
 BoboDogeCoin.sol#703-709)
                      addLiquidity(swap2BnbTokenAmount,swapBnbAmount) (BoboDogeCoin.sol#684)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,0,owner(),block.timestamp + 360) (BoboDog
                  Therios-745)
External calls sending eth:
- addLiquidity(swap2BnbTokenAmount,swapBnbAmount) (BoboDogeCoin.sol#684)
- uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp + 360) (BoboDog
Reference: https
INFO:Detectors:
INFO:Detectors:
 INFO:Detectors:
Dwnable.unlock() (BoboDogeCoin.sol#190-195) uses timestamp for comparisons
Dangerous comparisons:
- require(bool,string)(block.timestamp > lockTime,Contract is locked until 7 days) (BoboDogeCoin.sol#192)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp
 INFO:Detectors:
Address.isContract(address) (BoboDogeCoin.sol#85-94) uses assembly
 - INLINE ASM (BoboDogeCoin.sol#92)

**Address._functionCallwithValue(address.bytes,uint256,string) (BoboDogeCoin.sol#122-139) uses assembly

- INLINE ASM (BoboDogeCoin.sol#31-134)

**Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assemory-usage
INFO:Detectors:
Address. functionCallwithValue(address,bytes,uint256,string) (BoboDogeCoin.sol#122-139) is never used and should be removed
Address. functionCall(address,bytes,string) (BoboDogeCoin.sol#109-111) is never used and should be removed
Address.functionCallwithValue(address,bytes,uint256) (BoboDogeCoin.sol#113-115) is never used and should be removed
Address.functionCallwithValue(address,bytes,uint256,string) (BoboDogeCoin.sol#113-120) is never used and should be removed
Address.isContract(address) (BoboDogeCoin.sol#85-94) is never used and should be removed
Address.sendValue(address, uint256) (BoboDogeCoin.sol#96-102) is never used and should be removed
BoboDogeCoin.transferToAddressETH(address,uint256) (BoboDogeCoin.sol#974-976) is never used and should be removed
Context.msgData() (BoboDogeCoin.sol#11-14) is never used and should be removed
SafeMath.mod(uint256,uint256) (BoboDogeCoin.sol#37-75) is never used and should be removed
SafeMath.mod(uint256,uint256) (BoboDogeCoin.sol#77-80) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
 INFO:Detectors:
30b0DogeCoin._tTotal (BoboDogeCoin.sol#423) is set pre-construction with a non-constant function or state variable:
- 5200000000 * 10 ** 6 * 10 ** decimals
30b0DogeCoin._rTotal (BoboDogeCoin.sol#425) is set pre-construction with a non-constant function or state variable:
- (MAX - (MAX % _tTotal))
30b0DogeCoin._previousTaxFee (BoboDogeCoin.sol#431) is set pre-construction with a non-constant function or state variable:
                        taxFee
BoboDogeCoin._maxTxAmount (BoboDogeCoin.sol#439) is set pre-construction with a non-constant function or state variable:
- 52000000 * 10 ** 6 * 10 ** decimals
BoboDogeCoin.minimumTokensBeforeSwap (BoboDogeCoin.sol#440) is set pre-construction with a non-constant function or state variable:
- 200000 * 10 ** 6 * 10 ** _decimals
```

```
BoboDogeCoin.minimumTokensBeforeSwap (BoboDogeCoin.sol#440) is set pre-construction with a non-constant function or state variable:
                                                                       200000 * 10 ** 6 * 10 ** _decimals
https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state-variables
      INFO:Detectors:
                              ma version^0.8.4 (BoboDogeCoin.sol#4) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6 -0.8.4 is not recommended for deployment rence: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
   Reference: https://github.com/crj.ta/,
INFO:Detectors:
Low level call in Address.sendValue(address,uint256) (BoboDogeCoin.sol#96-102):
- (success) = recipient.call{value: amount}{()} (BoboDogeCoin.sol#100)
Low level call in Address. functionCallWithValue(address,bytes,uint256,string) (BoboDogeCoin.sol#122-139):
- (success,returndata) = target.call{value: weiValue}(data) (BoboDogeCoin.sol#125)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
   INFO:Detectors:
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (BoboDogeCoin.sol#230) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (BoboDogeCoin.sol#231) is not in mixedCase
Function IUniswapV2Pair.MINIMDMLIQUIDITY() (BoboDogeCoin.sol#247) is not in mixedCase
Function IUniswapV2Pair.MINIMDMLIQUIDITY() (BoboDogeCoin.sol#247) is not in mixedCase
Function IUniswapV2Pair.MINIMDMLIQUIDITY() (BoboDogeCoin.sol#266) is not in mixedCase
Function IUniswapV2Pair.MINIMDMLIQUIDITY() (BoboDogeCoin.sol#268) is not in mixedCase
Parameter BoboDogeCoin.calculateTaxee(uint256)._amount (BoboDogeCoin.sol#858) is not in mixedCase
Parameter BoboDogeCoin.setNumTokensSellToAddToLiquidity(uint256)._minimumTokensBeforeSwap (BoboDogeCoin.sol#924) is not in mixedCase
Parameter BoboDogeCoin.setMarketingAddress(address)._marketingAdferss(BoboDogeCoin.sol#892) is not in mixedCase
Parameter BoboDogeCoin.setBuyBackAddress(address)._buyBackAddress (BoboDogeCoin.sol#936) is not in mixedCase
Parameter BoboDogeCoin.setBuyBackAddress(address)._buyBackAddress (BoboDogeCoin.sol#940) is not in mixedCase
Parameter BoboDogeCoin.setBuyBackEnabled(bool)._enabled (BoboDogeCoin.sol#945) is not in mixedCase
Parameter BoboDogeCoin.setBuyBackEnabled(bool)._enabled (BoboDogeCoin.sol#945) is not in mixedCase
Parameter BoboDogeCoin._taxFee (BoboDogeCoin.sol#428) is not in mixedCase
Variable BoboDogeCoin._taxFee (BoboDogeCoin.sol#428) is not in mixedCase
Variable BoboDogeCoin._taxFee (BoboDogeCoin.sol#429) is not in mixedCase
Variable BoboDogeCoin._liquidityAndBuyBackFeeOfWhiteList (BoboDogeCoin.sol#436) is not in mixedCase
Variable BoboDogeCoin._liquidityAndBuyBackFeeOfWhiteList (BoboDogeCoin.sol#436) is not in mixedCase
Variable BoboDogeCoin._maxTxAmount (BoboDogeCoin.sol#439) is not in mixedCase
Variable BoboDogeCoin._maxTxAmount (BoboDogeCoin.sol#439) is not in mixedCase
Variable BoboDogeCoin._maxTxAmount (BoboDogeCoin.sol#439) is not in mixedCase
Variable BoboDogeCoin._liquidityAndBuyBackFeeOfWhiteList (BoboDogeCoin.sol#436) is not in mixedCase
Va
       NFO:Detectors:
                                                ant expression "this (BoboDogeCoin.sol#12)" inContext (BoboDogeCoin.sol#6-15)
nce: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
      INFO:Detectors:
                                                                            https://github.com/crytic/slither/wiki/Detector-Documentation\#conformance-to-solidity-naming-conventions and the substitution of the substitutio
       NPO.Detectors.
iedundant expression "this (BoboDogeCoin.sol#12)" inContext (BoboDogeCoin.sol#6-15)
ieference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
Redundant expression 'This (BobologeCoin.sol#12)" inContext (BobologeCoin.sol#0-15)
Reference: https://github.com/crytic/slither/wiki/pdetcor-locumentation#redundant-statements
INFO:Detectors:
Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,uint256).amountADesired (BobologeCoin.sol#271) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,uint256).amountADesired (BobologeCoin.sol#272)
Variable BobologeCoin_liquidityAndBuyBackFeeOfWhiteList (BobologeCoin.sol#36) is too similar to BobologeCoin.updateFeeOfWhiteList(uint256,uint256).liquidityAndBuyBackFeeOfWhiteList (BobologeCoin.sol#36))
Variable BobologeCoin_taxFeeOfWhiteList (BobologeCoin.sol#36) is too similar to BobologeCoin.updateFeeOfWhiteList(uint256,uint256).transferAbount (BobologeCoin.updateFeeOfWhiteList(uint256,uint256).transferAbount (BobologeCoin.sol#797) is too similar to BobologeCoin.cransferBothExcluded(address,address,uint256).transferAbount (BobologeCoin.sol#797) is too similar to BobologeCoin.cransferBothExcluded(address,address,uint256).transferAbount (BobologeCoin.sol#797) is too similar to BobologeCoin.cransferBothExcluded(address,address,uint256).rransferAbount (BobologeCoin.sol#797) is too similar to BobologeCoin.cransferBothExcluded(address,address,uint256).rransferAbount (BobologeCoin.sol#797) is too similar to BobologeCoin.cransferFoteXcluded(address,address,uint256).rransferAbount (BobologeCo
```

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transferToExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#777)
Variable BoboDogeCoin. getRValues(uint256,uint256,uint256,uint256).rTransferAmount (BoboDogeCoin.sol#829) is too similar to BoboDogeCoin.
getTValues(uint256).tTransferAmount (BoboDogeCoin.sol#821)
Variable BoboDogeCoin. getRValues(uint256,uint256,uint256,uint256).rTransferAmount (BoboDogeCoin.sol#829) is too similar to BoboDogeCoin.
transferFromExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#787)
Variable BoboDogeCoin._transferToExcluded(address,address,uint256).rTransferAmount (BoboDogeCoin.sol#777) is too similar to BoboDogeCoin.
transferStandard(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#829) is too similar to BoboDogeCoin.
transferBothExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#797)
Variable BoboDogeCoin._transferBothExcluded(address,address,uint256).rTransferAmount (BoboDogeCoin.sol#797) is too similar to BoboDogeCoin.
_transferFromExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#787)
Variable BoboDogeCoin._transferStandard(address,address,uint256).rTransferAmount (BoboDogeCoin.sol#768) is too similar to BoboDogeCoin.getTValues(uint256).tTransferAmount (BoboDogeCoin.sol#7821)
Variable BoboDogeCoin._getRValues(uint256,uint256,uint256,uint256,uint256).rTransferAmount (BoboDogeCoin.sol#829) is too similar to BoboDogeCoin.
getTValues(uint256).tTransferAmount (BoboDogeCoin.sol#813)
Variable BoboDogeCoin._transferAmount (BoboDogeCoin.sol#813)
 getValues(uint256).tTransferAmount (BoboDogeCoin.sol#813)

/ariable BoboDogeCoin._transferBothExcluded(address,address,uint256).rTransferAmount (BoboDogeCoin.sol#797) is too similar to BoboDogeCoin.
_getValues(uint256).tTransferAmount (BoboDogeCoin.sol#813)

/ariable BoboDogeCoin._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (BoboDogeCoin.sol#829) is too similar to BoboDogeCoin.
_transferStandard(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#768)

/ariable BoboDogeCoin._transferToExcluded(address,address,uint256).rTransferFamount (BoboDogeCoin.sol#777) is too similar to BoboDogeCoin.
_transferFromExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#777) is too similar to BoboDogeCoin.
_getValues(uint256).tTransferAmount (BoboDogeCoin.sol#777) is too similar to BoboDogeCoin.
_transferBothExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#777) is too similar to BoboDogeCoin.
_transferBothExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#787) is too similar to BoboDogeCoin.
_transferBothExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#787) is too similar to BoboDogeCoin.
_transferBothExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#787) is too similar to BoboDogeCoin.
_transferStandard(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#788)
/ariable BoboDogeCoin._transferFromExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#788) is too similar to BoboDogeCoin._transferStandard(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#788)
/ariable BoboDogeCoin._transferStandard(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#788)
                      iable BoboDogeCoin._transferStandard(address,address,uint256).rTransferAmount (BoboDogeCoin.sol#768) is too similar to BoboDogeCoin._g
alues(uint256).tTransferAmount (BoboDogeCoin.sol#813)
iable BoboDogeCoin.reflectionFromToken(uint256,bool).rTransferAmount (BoboDogeCoin.sol#572) is too similar to BoboDogeCoin._transferTo
     xcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#777)
ariable BoboDogeCoin._getValues(uint256).rTransferAmount (BoboDogeCoin.sol#814) is too similar to BoboDogeCoin._getValues(uint256).tTransferAmount (BoboDogeCoin.sol#813)
     Variable BoboDogeCoin.reflectionFromToken(uint256,tool).rTransferAmount (BoboDogeCoin.sol#572) is too similar to BoboDogeCoin._transferBothExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#572) is too similar to BoboDogeCoin._transferBothExcluded(address,address,uint256).rTransferAmount (BoboDogeCoin.sol#787) is too similar to BoboDogeCoin._getValues(uint256).tTransferAmount (BoboDogeCoin.sol#787) is too similar to BoboDogeCoin._transferAmount (BoboDogeCoin.sol#787) is too similar to BoboDogeCoin._transferStandard(address,address,uint256).rTransferAmount (BoboDogeCoin.sol#787) is too similar to BoboDogeCoin._transferStandard(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#777)
Variable BoboDogeCoin._getValues(uint256).tTransferAmount (BoboDogeCoin.sol#814) is too similar to BoboDogeCoin._transferBothExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#897)
Variable BoboDogeCoin._getValues(uint256).rTransferAmount (BoboDogeCoin.sol#814) is too similar to BoboDogeCoin._transferStandard(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#788)
Variable BoboDogeCoin._getValues(uint256).rTransferAmount (BoboDogeCoin.sol#814) is too similar to BoboDogeCoin._transferToExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#777)
Variable BoboDogeCoin.getValues(uint256).rTransferAmount (BoboDogeCoin.sol#814) is too similar to BoboDogeCoin._getValues(uint256).tTransferAmount (BoboDogeCoin.sol#813)
Variable BoboDogeCoin.getValues(uint256).bool).rTransferAmount (BoboDogeCoin.sol#814) is too similar to BoboDogeCoin._getTValues(uint256).tTransferAmount (BoboDogeCoin.sol#814) is too similar to BoboDogeCoin._getTValues(uint256).tTransferAmount (BoboDogeCoin.sol#8172) is too similar to BoboDogeCoin._getTValues(uint256).tTransferAmount (BoboDogeCoin.sol#8172) is too similar to BoboDogeCoin._transferFromExcluded(address,address,uint256).tTransferAmount (BoboDogeCoin.sol#877) is too similar to BoboDogeCoin._transferFromExcluded(address,address,uint256).tTransferAmount (
     INFO:Detectors:
BobDOgeCoin.prepareForPreSale() (BoboDogeCoin.sol#960-965) uses literals with too many digits:
- _maxTxxmount = 52000000000 * 10 ** 6 * 10 ** _decimals (BoboDogeCoin.sol#964)
BobDOgeCoin.afterPreSale() (BobDOgeCoin.sol#967-972) uses literals with too many digits:
- _maxTxxmount = 5200000000 * 10 ** 6 * 10 ** _decimals (BobDOgeCoin.sol#971)
BobDOgeCoin.slitherConstructorVariables() (BobDOgeCoin.sol#400-981) uses literals with too many digits:
- _deadAddress = 0x0000000000000000000000000000000deD (BobDOgeCoin.sol#406)
BobDOgeCoin.slitherConstructorVariables() (BobDOgeCoin.sol#400-981) uses literals with too many digits:
- _tTotal = 5200000000 * 10 ** 6 * 10 ** _decimals (BobDOgeCoin.sol#423)
BobDOgeCoin.slitherConstructorVariables() (BobDOgeCoin.sol#400-981) uses literals with too many digits:
- _maxTxxmount = 520000000 * 10 ** 6 * 10 ** _decimals (BobDOgeCoin.sol#439)
BobDOgeCoin.slitherConstructorVariables() (BobDOgeCoin.sol#400-981) uses literals with too many digits:
- _maxTxxmount = 520000000 * 10 ** 6 * 10 ** _decimals (BobDOgeCoin.sol#440)
BobDOgeCoin.slitherConstructorVariables() (BobDOgeCoin.sol#400-981) uses literals with too many digits:
- _minimumTokensBeforeSwap = 200000 * 10 ** 6 * 10 ** _decimals (BobDOgeCoin.sol#440)
Beforence: https://github.com/crytic/slither/wik/Detector-Documentation#too-many-digits
   INFO:Detectors:
 INFO:Detectors:

BoboDogeCoin. _name (BoboDogeCoin.sol#418) should be constant
BoboDogeCoin. _name (BoboDogeCoin.sol#418) should be constant
BoboDogeCoin. _symbol (BoboDogeCoin.sol#419) should be constant
```

```
phogeCoin._buyBackRate (BoboDogeCoin.sol#4134) should be constant
phogeCoin.deadAddress (BoboDogeCoin.sol#434) should be constant
phogeCoin.marketingRate (BoboDogeCoin.sol#433) should be constant
phogeCoin.marketingRate (BoboDogeCoin.sol#433) should be constant
prence: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
decreaseAllowance(address,uint256) should be declared external:

- BoboDogeCoin.decreaseAllowance(address,uint256) (BoboDogeCoin.sol#536-539)
isExcludedFromReward(address) should be declared external:

- BoboDogeCoin.isExcludedFromReward(address) (BoboDogeCoin.sol#541-543)
totalFees() should be declared external:

- BoboDogeCoin.totalFees() (BoboDogeCoin.sol#545-547)
minimumTokensBeforeSwapAmount() should be declared external:

- BoboDogeCoin.minimumTokensBeforeSwapAmount() (BoboDogeCoin.sol#549-551)
buyBackUpperLimitAmount() should be declared external:

- RoboDogeCoin.buyBackUpperLimitAmount() (BoboDogeCoin.sol#553-555)
   - BobologeCoin.minimum lokensberoreswapamount) (BobologeCoin.sol#949-551)
buyBackUpperLimitAmount() should be declared external:
- BobologeCoin.buyBackUpperLimitAmount() (BobologeCoin.sol#553-555)
deliver(uint256) should be declared external:
- BobologeCoin.deliver(uint256) (BobologeCoin.sol#557-564)
reflectionFromToken(uint256,bool) should be declared external:
- BobologeCoin.reflectionFromToken(uint256,bool) (BobologeCoin.sol#566-575)
excludeFromReward(address) should be declared external:
- BobologeCoin.excludeFromReward(address) (BobologeCoin.sol#583-591)
isExcludeGromFee(address) should be declared external:
- BobologeCoin.isExcludedFromFee(address) (BobologeCoin.sol#900-902)
excludeFromFee(address) should be declared external:
- BobologeCoin.excludeFromFee(address) (BobologeCoin.sol#904-906)
includeInFee(address) should be declared external:
- BobologeCoin.icLudeInFee(address) (BobologeCoin.sol#908-910)
setBuyBackEnabled(bool) should be declared external:
- BobologeCoin.setBuyBackEnabled(bool) (BobologeCoin.sol#945-948)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external
INFO:Slither:BobologeCoin.sol analyzed (10 contracts with 75 detectors), 147 result(s) found
INFO:Slither:Use https://crytic.io/ to get access to additional detectors and Github integration
root@server:/chetan/gaza/mycontracts#
```

Solidity static analysis

BoboDogeCoin.sol

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Email: audit@EtherAuthority.io

SOLIDITY STATIC ANALYSIS

contracts/BoboDogeCoin.sol

Security

Transaction origin:

INTERNAL ERROR in module Transaction origin: can't convert undefined to object Pos: not available

Check-effects-interaction:

INTERNAL ERROR in module Check-effects-interaction: can't convert undefined to object Pos: not available

Inline assembly:

INTERNAL ERROR in module Inline assembly: can't convert undefined to object Pos: not available

Block timestamp:

INTERNAL ERROR in module Block timestamp: can't convert undefined to object Pos: not available

Low level calls:

INTERNAL ERROR in module Low level calls: can't convert undefined to object Pos: not available

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Selfdestruct:

INTERNAL ERROR in module Selfdestruct: can't convert undefined to object Pos: not available

Gas & Economy

This on local calls:

INTERNAL ERROR in module This on local calls: can't convert undefined to object Pos: not available

Delete dynamic array:

INTERNAL ERROR in module Delete dynamic array: can't convert undefined to object Pos: not available

For loop over dynamic array:

INTERNAL ERROR in module For loop over dynamic array: can't convert undefined to object Pos: not available

Ether transfer in loop:

INTERNAL ERROR in module Ether transfer in loop: can't convert undefined to object Pos: not available

ERC

ERC20:

INTERNAL ERROR in module ERC20: can't convert undefined to object

Pos: not available

Miscellaneous

Constant/View/Pure functions:

INTERNAL ERROR in module Constant/View/Pure functions: can't convert undefined to object Pos: not available

Similar variable names:

INTERNAL ERROR in module Similar variable names: can't convert undefined to object Pos: not available

No return:

INTERNAL ERROR in module No return: can't convert undefined to object Pos: not available

Guard conditions:

INTERNAL ERROR in module Guard conditions: can't convert undefined to object

Pos: not available

String length:

INTERNAL ERROR in module String length: can't convert undefined to object

Pos: not available

Solhint Linter

BoboDogeCoin.sol

contracts/BoboDogeCoin.sol:22:1: Error: Compiler version ^0.8.4 does not satisfy the r semver requirement

contracts/BoboDogeCoin.sol:144:51: Error: Avoid using low level calls.

contracts/BoboDogeCoin.sol:150:17: Error: Avoid using inline assembly. It is acceptable only in rare cases

contracts/BoboDogeCoin.sol:168:5: Error: Explicitly mark visibility in function (Set ignoreConstructors to true if using solidity >=0.7.0)

contracts/BoboDogeCoin.sol:199:16: Error: Avoid to make time-based decisions in your business logic

contracts/BoboDogeCoin.sol:205:21: Error: Avoid to make time-based decisions in your business logic

contracts/BoboDogeCoin.sol:211:17: Error: Avoid to make time-based decisions in your business logic

contracts/BoboDogeCoin.sol:253:5: Error: Function name must be in mixedCase

contracts/BoboDogeCoin.sol:254:5: Error: Function name must be in mixedCase

contracts/BoboDogeCoin.sol:270:5: Error: Function name must be in mixedCase

contracts/BoboDogeCoin.sol:291:5: Error: Function name must be in mixedCase

contracts/BoboDogeCoin.sol:427:1: Error: Contract has 29 states declarations but allowed no more than 15

contracts/BoboDogeCoin.sol:473:5: Error: Explicitly mark visibility of state

contracts/BoboDogeCoin.sol:503:5: Error: Explicitly mark visibility in function (Set ignoreConstructors to true if using solidity >=0.7.0)

contracts/BoboDogeCoin.sol:735:13: Error: Avoid to make time-based decisions in your business logic

contracts/BoboDogeCoin.sol:752:13: Error: Avoid to make time-based decisions in your business logic

contracts/BoboDogeCoin.sol:769:13: Error: Avoid to make time-based decisions in your business logic

contracts/BoboDogeCoin.sol:1006:32: Error: Code contains empty blocks



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