

Audit Report Witch Baby Doge

May 2022

Type BEP20

Network BSC

Address 0xC24e233DD1D08aEBebA6a2729Dc0A44C2C7C1b33

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Cyberscope Witch Baby Doge Token Audit

About Cyberscope



Contract Review

Contract Name	WitchBabyDoge
Compiler Version	v0.8.6+commit.11564f7e
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0xC24e233DD1D08aEBeb A6a2729Dc0A44C2C7C1b33
Symbol	WBDOGE
Decimals	9
Total Supply	1,000,000,000
Domain	wbdoge.co

Source Files

Filename	SHA256
contract.sol	3034ff104cc78f9313b7214d1c3dc4bbd083edf07d610f a90aa003e8d9814012

Audit Updates

Initial Audit	4th May 2022
Corrected	



Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description
•	ST	Contract Owner is not able to stop or pause transactions
•	OCTD	Contract Owner is not able to transfer tokens from specific address
•	OTUT	Owner Transfer User's Tokens
•	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
•	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
•	MT	Contract Owner is not able to mint new tokens
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



ELFM - Exceed Limit Fees Manipulation

Criticality	medium
Location	contract.sol#L391

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the setFee function with a high percentage value.

Recommendation

The contract could embody a check for not allowing the total fees on buy and on sell to be more than 25%.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.



ULTW - Unlimited Liquidity to Team Wallet

Criticality	minor
Location	contract.sol#L379, 385

Description

The contract owner has the authority to transfer funds without limit to the team wallet. These funds have been accumulated from fees collected from the contract. The owner may take advantage of it by calling the manualswap and manualsend functions.

```
function manualswap() external {
    require(_msgSender() == _BuybackAddress || _msgSender() ==
    _MarketingAddress || _msgSender() == owner());
    uint256 contractBalance = balanceOf(address(this));
    swapTokensForEth(contractBalance);
}
```

```
function manualsend() external {
    require(_msgSender() == _BuybackAddress || _msgSender() ==
    _MarketingAddress || _msgSender() == owner());
    uint256 contractETHBalance = address(this).balance;
    sendETHToFee(contractETHBalance);
}
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.



Contract Diagnostics

Critical MediumMinor

Severity	Code	Description
•	FSA	Fixed Swap Address
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L04	Conformance to Solidity Naming Conventions
•	L05	Unused State Variable



FSA - Fixed Swap Address

Criticality	minor
Location	contract.sol#L170

Description

The swap address is assigned once in the constructor and it can not be changed. The decentralized swaps sometimes create a new swap version or abandon the current. A contract that cannot change the swap address may not be able to catch-up the upgrade.

Recommendation

It could be better to allow the swap address mutation in case of future swap updates.



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L114,120,188,192,196,200,208,213,217,222,304,310,317,391,402,4 06

Description

Public functions that are never called by the contract should be declared external to save gas.

excludeMultipleAccountsFromFees
toggleSwap
setFee
setNewMarketingAddress
setNewDevAddress
rescueForeignTokens
transferFrom
approve
allowance
...

Recommendation

Use the external attribute for functions never called from the contract.



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L97

Description

Constant state variables should be declared constant to save gas.

_previousOwner

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L38,303,309,304,391,402,136,140,141,143,144,146,147,149,150,15 1,153,154

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.
- _MarketingAddress
 _BuybackAddress
 _decimals
 _symbol
 _name
 _TaxFee
 _RedistributionFee
 _TaxFeeOnSell
 _RedistributionFeeOnSell
 ...

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions



L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L97,131

Description

There are segments that contain unused state variables.

```
_tOwned _previousOwner
```

Recommendation

Remove unused state variables.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IEDO00	Interfere			
IERC20	Interface	Estemal		
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	√	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Token	Interface			
	transferFrom	External	1	-
	transfer	External	✓	-
IUniswapV2Fa ctory	Interface			
	createPair	External	✓	-
IUniswapV2Ro uter02	Interface			
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	1	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
Context	Implementation			
	_msgSender	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		



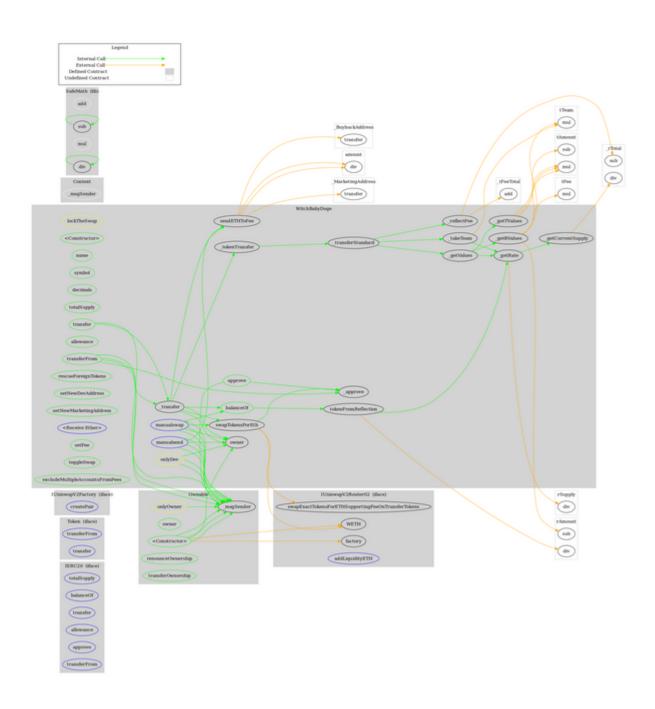
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	1	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
WitchBabyDo ge	Implementation	Context, IERC20, Ownable		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-
	allowance	Public		-
	approve	Public	1	-
	transferFrom	Public	1	-
	tokenFromReflection	Private		
	_approve	Private	1	
	_transfer	Private	1	
	swapTokensForEth	Private	1	lockTheSwap
	sendETHToFee	Private	1	
	_tokenTransfer	Private	1	
	rescueForeignTokens	Public	1	onlyDev
	setNewDevAddress	Public	1	onlyDev
	setNewMarketingAddress	Public	1	onlyDev
	_transferStandard	Private	1	
	_takeTeam	Private	1	
	_reflectFee	Private	1	



<receive ether=""></receive>	External	Payable	-
_getValues	Private		
_getTValues	Private		
_getRValues	Private		
_getRate	Private		
_getCurrentSupply	Private		
manualswap	External	✓	-
manualsend	External	✓	-
setFee	Public	✓	onlyDev
toggleSwap	Public	✓	onlyDev
excludeMultipleAccountsFromFees	Public	✓	onlyOwner



Contract Flow





Domain Info

Domain Name	wbdoge.co
Registry Domain ID	DB86D6FEFBDFE4528B522BB76F751D751-GDREG
Creation Date	2022-04-25T14:19:26Z
Updated Date	2022-04-30T14:19:27Z
Registry Expiry Date	2023-04-25T14:19:26Z
Registrar WHOIS Server	whois.discount-domain.com
Registrar URL	whois.discount-domain.com
Registrar	GMO Internet, Inc. d/b/a Onamae.com
Registrar IANA ID	49

The domain has been created 9 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.



Summary

There are some functions that can be abused by the owner like manipulating fees and transferring funds to the team's wallet. The maximum fee percentage that can be set is 28%. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.



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About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io