

Audit Report Pilot Doge

April 2022

Type BEP20

Network BSC

Address 0xB5626C51be7DaFC4647cAEB80dFb22ae17eD9DeE

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Table of Contents

Table of Contents	
Contract Review	3
Source Files	3
Audit Updates	3
Contract Analysis	4
OCTD - Owner Contract Tokens Drain	5
Description	5
Recommendation	5
BC - Blacklisted Contracts	6
Description	6
Recommendation	6
Contract Diagnostics	7
L01 - Public Function could be Declared External	8
Description	8
Recommendation	8
L02 - State Variables could be Declared Constant	9
Description	9
Recommendation	9
L04 - Conformance to Solidity Naming Conventions	10
Description	10
Recommendation	10
L05 - Unused State Variable	11
Description	11
Recommendation	11
L14 - Uninitialized Variables in Local Scope	12
Description	12

2

19

Cyberscope Pilot Doge Token Audit

About Cyberscope



Contract Review

Contract Name	PILOTDOGE
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	Unlicense
Explorer	https://bscscan.com/token/0xB5626C51be7DaFC4647 cAEB80dFb22ae17eD9DeE
Symbol	\$PDoge
Decimals	9
Total Supply	100,000,000,000
Domain	

Source Files

Filename	SHA256
contract.sol	d0aab842def132225e22da812473ea55e01a7762d1ca8 c5bf06b17dad7e6909a

Audit Updates

Initial Audit	24rd April 2022
Corrected	27th April 2022



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



OCTD - Owner Contract Tokens Drain

Criticality	minor
Location	contract.sol#L390,396

Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the manualswap or manualsend functions.

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

function manualsend() external {
    require(_msgSender() == _developmentAddress || _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.



BC - Blacklisted Contracts

Criticality	critical
Location	contract.sol#L240

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the manage_blacklist function.

```
if(blacklistMode){
     require(!isBlacklisted[from] && !isBlacklisted[to],"Blacklisted");
}
```

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

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L04	Conformance to Solidity Naming Conventions
•	L05	Unused State Variable
•	L14	Uninitialized Variables in Local Scope



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L110,116,187,191,195,199,207,212,216,221,240,246,316,322,329,4 03,414,418

Description

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

```
excludeMultipleAccountsFromFees
toggleSwap
setFee
setNewMarketingAddress
setNewDevAddress
rescueForeignTokens
enable_blacklist
manage_blacklist
transferFrom
...
```

Recommendation

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



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L93

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#L34,123,315,321,328,240,246,316,414,135,148,149,150

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.

```
_decimals
_symbol
_name
_tTotal
_swapEnabled
_amount
_to
_tokenAddr
_status
...
```

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#L93,127

Description

There are segments that contain unused state variables.

```
_tOwned
_previousOwner
```

Recommendation

Remove unused state variables.



L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L241

Description

The are variables that are defined in the local scope and are not initialized.

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Recommendation

All the local scoped variables should be initialized.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
IENG20		External		
	totalSupply balanceOf			-
		External		-
	transfer	External	√	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Token	Interface			
	transferFrom	External	✓	-
	transfer	External	✓	-
IUniswapV2Fa ctory	Interface			
	createPair	External	1	-
IUniswapV2Ro uter02	Interface			
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	1	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
Context	Implementation			
	_msgSender	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		



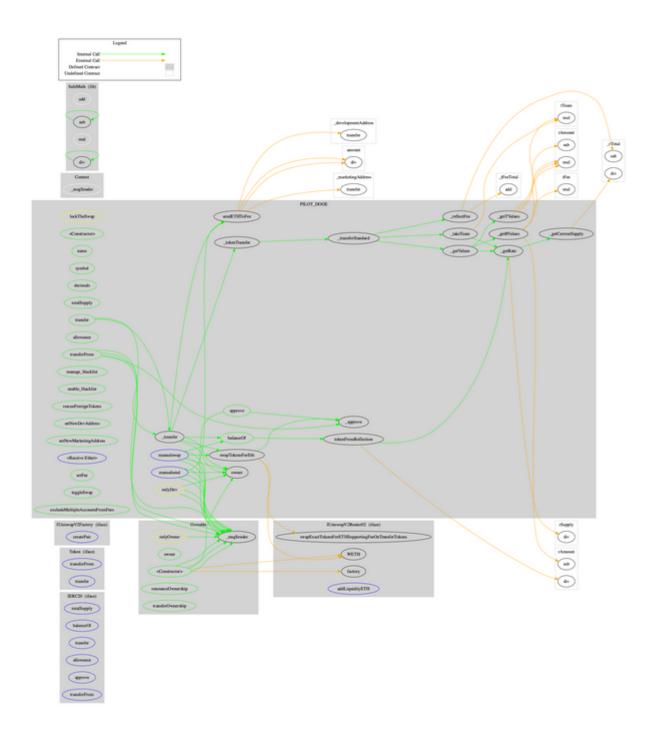
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	1	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
PILOT_DOGE	Implementation	Context, IERC20, Ownable		
	<constructor></constructor>	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	
	manage_blacklist	Public	1	onlyDev
	enable_blacklist	Public	1	onlyDev
	_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	/	



_takeTeam	Private	✓	
_reflectFee	Private	✓	
<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





Summary

Pilot Doge Token is an interesting project that has a friendly and growing community. There are some functions that can be abused by the owner, like massively blacklisting wallets from transactions, and transferring the contract's accumulated fees to the team wallet. The maximum fee percentage that can be set is 20%. 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