

Audit Report **DOGEBEER**

November 2022

SHA256

568658547032f3d107d5be852ced548a1f44f9253be05509aacaf50244ab9457

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Summary

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Contract Review

Contract Name	DOGEBEER
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	None
Symbol	BEERS
Decimals	9
Total Supply	420,000,000

Source Files

Filename	SHA256
contract.sol	568658547032f3d107d5be852ced548a1f44f9253be0550 9aacaf50244ab9457

Audit Updates

Initial Audit	23rd July 2022 https://github.com/cyberscope-io/audits/tree/main/beers /v1/audit.pdf
Corrected Phase 1	19th August 2022 https://github.com/cyberscope-io/audits/tree/main/beers/v2/audit.pdf
Corrected Phase 2	23rd August 2022 https://github.com/cyberscope-io/audits/tree/main/beers /v3/audit.pdf
Corrected Phase 3	17th November

Contract Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Unresolved
•	MT	Mints Tokens	Passed
•	BT	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



ULTW - Transfers Liquidity to Team Wallet

Criticality	minor / informative
Location	contract.sol#L1998
Status	Unresolved

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 Sweep method.

```
function Sweep() external onlyOwner {
    uint256 balance = address(this).balance;
    payable(owner()).transfer(balance);
}
```

Recommendation

The contract could embody a check for the maximum amount of funds that can be swapped. Since a huge amount may volatile the token's price.

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 / Informative

Severity	Code	Description	Status
•	L01	Public Function could be Declared External	Unresolved
•	L02	State Variables could be Declared Constant	Unresolved
•	L03	Redundant Statements	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L09	Dead Code Elimination	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L589,618,184,1087,622,594,600,1012,1071,585,636,199,189,571,5 59,614,1020,567,1016,653,210,605,610,626,203,580,195,563
Status	Unresolved

Description

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

approve
minimumTokensBeforeSwapAmount
renounceOwnership
GetSwapMinutes
buyBackSellLimitAmount
transferFrom
increaseAllowance
isExcludedFromFee
GetBuyBackTimeInterval
...

Recommendation

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



L02 - State Variables could be Declared Constant

Criticality	minor / informative
Location	contract.sol#L507,498,497
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

_isEnabledBuyBackAndBurn _buyBackMaxTimeForHistories

_buyBackTimeInterval

Recommendation

Add the constant attribute to state variables that never change.



L03 - Redundant Statements

Criticality	minor / informative
Location	contract.sol#L20
Status	Unresolved

Description

The contract contains statements that are not used and have no effect. As a result, those segments increase the code size of the contract unnecessarily.

Context

Recommendation

Remove the redundant statements in order to decrease the code size.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L1188,482,985,1169,498,1071,1194,477,487,432,1128,1215,1199,1 087,467,507,256,272,449,470,497,1136,991,255,496,448,1146,494,480,474,109 1,476,450,479,1207,473,1067,293,489,1082,485,1132,444,1141,495
Status	Unresolved

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.

```
_to
_buyBackRangeRate
_amount
_router
_buyBackMaxTimeForHistories
GetBuyBackTimeInterval
Sweep
_sellLiquidityFee
LPDivisor
...
```

Recommendation

Follow the Solidity naming convention.

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



L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L1128,1104,1115,1099,1119,1091,1067,1095,1082,1124,1111
Status	Unresolved

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
minimumTokensBeforeSwap = _minimumTokensBeforeSwap
    _sellTaxFee = sellTaxFee
buyBackSellLimit = buyBackSellSetLimit
    _buyTaxFee = buyTaxFee
    _maxTxAmount = maxTxAmount
    _intervalMinutesForSwap = newMinutes * 60
    _buyBackDivisor = newDivisor
    _taxFee = taxFee
    _buyBackRangeRate = newPercent
...
```

Recommendation

Emit an event for critical parameter changes.



L09 - Dead Code Elimination

Criticality	minor / informative
Location	contract.sol#L133,137,142,102,129,125
Status	Unresolved

Description

Functions that are not used in the contract, and make the code's size bigger.

functionCallWithValue
_functionCallWithValue
isContract
functionCall

Recommendation

Remove unused functions.

L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L700
Status	Unresolved

Description

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

sellHistory

Recommendation

All the local scoped variables should be initialized.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	1	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
	isContract	Internal		
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	√	
	functionCallWithValue	comai	•	



	_functionCallWithValue	Private	✓	
Ownable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	1	onlyOwner
	getUnlockTime	Public		-
	getTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pa ir	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	1	-
	transfer	External	1	-
	transferFrom	External	1	-
	DOMAIN_SEPARATOR	External		-



	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	1	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	burn	External	1	-
	swap	External	1	-
	skim	External	1	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	1	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	1	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	1	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	√	-
	swapETHForExactTokens	External	Payable	-
	quote	External	,	-
	getAmountOut	External		_
	3			



	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeO nTransferTokens	External	1	-
	removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
DOGEBEER	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	✓	-
	transferFrom	Public	1	-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	minimumTokensBeforeSwapAmount	Public		-
	buyBackSellLimitAmount	Public		-
	deliver	Public	1	-
	reflectionFromToken	Public		-



tokenFromReflection	Public		-
excludeFromReward	Public	1	onlyOwner
includeInReward	External	✓	onlyOwner
_approve	Private	✓	
_transfer	Private	✓	
swapTokens	Private	✓	lockTheSwap
buyBackTokens	Private	✓	lockTheSwap
swapTokensForEth	Private	1	
swapETHForTokens	Private	1	
_tokenTransfer	Private	1	
_transferStandard	Private	1	
_transferToExcluded	Private	1	
_transferFromExcluded	Private	1	
_transferBothExcluded	Private	1	
_reflectFee	Private	1	
_getValues	Private		
_getTValues	Private		
_getRValues	Private		
_getRate	Private		
_getCurrentSupply	Private		
_takeLiquidity	Private	✓	
calculateTaxFee	Private		
calculateLiquidityFee	Private		
removeAllFee	Private	✓	
restoreAllFee	Private	✓	
isExcludedFromFee	Public		-
excludeFromFee	Public	✓	onlyOwner
includeInFee	Public	✓	onlyOwner
_getSellBnBAmount	Private		
_removeOldSellHistories	Private	1	
SetBuyBackDivisor	External	1	onlyOwner
GetBuyBackTimeInterval	Public		-
SetBuyBackRangeRate	External	1	onlyOwner
GetSwapMinutes	Public		-



SetSwapMinutes	External	✓	onlyOwner
setTaxFeePercent	External	✓	onlyOwner
setBuyFee	External	1	onlyOwner
setSellFee	External	1	onlyOwner
setLiquidityFeePercent	External	1	onlyOwner
setBuyBackSellLimit	External	1	onlyOwner
setMaxTxAmount	External	1	onlyOwner
setLPDivisor	External	1	onlyOwner
setNumTokensSellToAddToBuyBack	External	✓	onlyOwner
setLPAddress	External	✓	onlyOwner
setSwapAndLiquifyEnabled	Public	1	onlyOwner
setBuyBackEnabled	External	1	onlyOwner
setAutoBuyBackEnabled	External	✓	onlyOwner
prepareForPreSale	External	1	onlyOwner
afterPreSale	External	1	onlyOwner
transferToAddressETH	Private	1	
changeRouterVersion	External	1	onlyOwner
<receive ether=""></receive>	External	Payable	-
transferForeignToken	External	1	onlyOwner
Sweep	External	1	onlyOwner
setAddressFee	External	1	onlyOwner
setBuyAddressFee	External	1	onlyOwner
setSellAddressFee	External	1	onlyOwner



Contract Flow





Summary

The Smart Contract analysis reported one minor severity issue. The contract owner has the authority to transfer funds to the team's wallet. Other than that, the contract owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a max limit of 25% fees.



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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 provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io