



Cyberscope

Audit Report

# **GOLDEN REGENT INVESTMENT**

November 2022

Type      BEP20

Network    BSC

Address    0x134C857757308AEeC4c20CA2A583F560a906ed28

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## Contract Review

<b>Contract Name</b>	GOLDENREGENTINVESTMENT
<b>Compiler Version</b>	v0.8.17+commit.8df45f5f
<b>Optimization</b>	200 runs
<b>Licence</b>	None
<b>Explorer</b>	<a href="https://bscscan.com/token/0x134C857757308AEeC4c20CA2A583F560a906ed28">https://bscscan.com/token/0x134C857757308AEeC4c20CA2A583F560a906ed28</a>
<b>Symbol</b>	GRI
<b>Decimals</b>	18
<b>Total Supply</b>	500,000,000
<b>Domain</b>	coingri.com

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	d082d4b0e3dfcf051d35e6215e4dd8e526efdbfb8be828572f522ba05021c9ff

## Audit Updates

<b>Initial Audit</b>	5th November 2022 <a href="https://github.com/cyberscope-io/audits/blob/main/0d-gri/v1/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/0d-gri/v1/audit.pdf</a>
<b>Corrected</b>	18th November 2022

# Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

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

## ST - Stops Transactions

Criticality	medium
Location	contract.sol#L937,891
Status	Unresolved

### Description

The contract owner has the authority to stop the transactions for all users excluding the owner. The owner may take advantage of it by setting the `_percentageOfLiquidityForMarketing` to a value greater than 100.

```
uint256 marketingFee =  
newBalance.mul(_percentageOfLiquidityForMarketing).div(100);
```

The contract owner has the authority to stop the purchases for all users excluding the owner. The owner may take advantage of it by setting the `maxWalletToken` to zero.

```
uint256 contractBalanceReceipient = balanceOf(to);  
require(  
    contractBalanceReceipient + amount <= maxWalletToken,  
    "Exceeds maximum wallet token amount."  
);
```

### Recommendation

The contract could embody a check for not allowing setting the `maxWalletToken` less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply. The maximum value of `_percentageOfLiquidityForMarketing` should be 100.

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   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	CO	Code Optimization	Unresolved
●	L02	State Variables could be Declared Constant	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L05	Unused State Variable	Unresolved
●	L07	Missing Events Arithmetic	Unresolved
●	L09	Dead Code Elimination	Unresolved



## CO - Code Optimization

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L578
<b>Status</b>	Unresolved

### Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes less memory, executes more rapidly, or performs fewer operations. The state variable `_maxTxAmount` is initialized by the total supply and can never be changed. As a result, the conditions that are using it will never be truth.

```
uint256 public _maxTxAmount = _tTotal;
...
if (from != owner() && to != owner()) {
    require(amount <= _maxTxAmount, "Transfer amount exceeds the maxTxAmount.");
}
...
if (contractTokenBalance >= _maxTxAmount) {
    contractTokenBalance = _maxTxAmount;
}
```

### Recommendation

Rewrite some code segments so the runtime will be more performant.

## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L307,562,558,308,564,563
<b>Status</b>	Unresolved

### Description

Constant state variables should be declared constant to save gas.

```
_previousOwner  
_name  
_tTotal  
_lockTime  
_decimals  
_symbol
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L580,579,574,372,566,389,371,568,555,578,554,581,567,409,551,766
<b>Status</b>	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.

```
_uniswapV2Router
_inSwapAndLiquify
_maxTxAmount
PERMIT_TYPEHASH
_taxFee
MINIMUM_LIQUIDITY
DOMAIN_SEPARATOR
_percentageOfLiquidityForMarketing
_investingWallet
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L05 - Unused State Variable

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L308,307,224
<b>Status</b>	Unresolved

### Description

There are segments that contain unused state variables.

```
_lockTime  
_previousOwner  
MAX_INT256
```

### Recommendation

Remove unused state variables.

## L07 - Missing Events Arithmetic

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L746,766,758,753,763
<b>Status</b>	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.

```
_minTokenBalance = minimumToken  
maxWalletToken = _maxToken  
_liquidityFee = liquidityFee  
_taxFee = taxFee  
_percentageOfLiquidityForMarketing = marketingFee
```

### Recommendation

Emit an event for critical parameter changes.

## L09 - Dead Code Elimination

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L270,283,276
<b>Status</b>	Unresolved

### Description

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

```
abs  
toInt256Safe  
toUint256Safe
```

### Recommendation

Remove unused functions.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IBEP20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>SafeMath</b>	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
<b>SafeMathInt</b>	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
	abs	Internal		

	toUint256Safe	Internal		
<b>SafeMathUint</b>	Library			
	toInt256Safe	Internal		
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
	_marketingWlt	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
<b>IUniswapV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
<b>IUniswapV2Pair</b>	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-

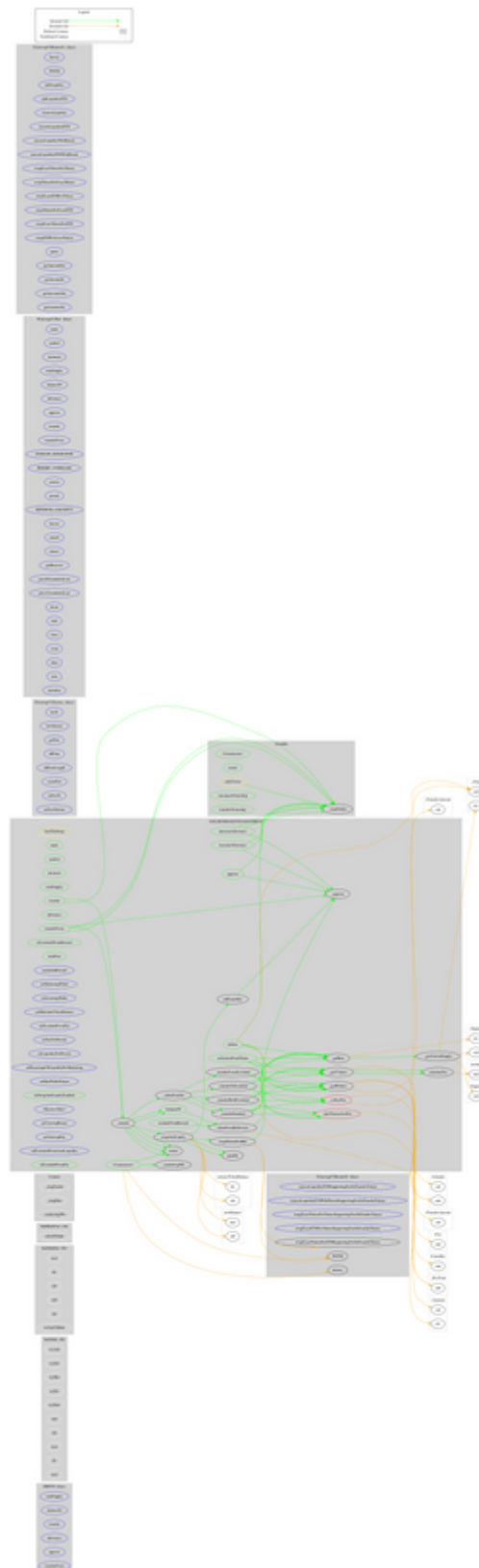


	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
<b>IUniswapV2Router01</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-

	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
<b>IUniswapV2Router02</b>	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>GOLDENREGENTINVESTMENT</b>	Implementation	Context, IBEP20, Ownable		
	<Constructor>	Public	✓	Ownable
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	deliver	Public	✓	-

	reflectionFromToken	Public		-
	tokenFromReflection	Public		-
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	setMarketingWallet	External	✓	onlyOwner
	setInvestingWallet	External	✓	onlyOwner
	setMinimumTokenBalance	External	✓	onlyOwner
	setExcludedFromFee	External	✓	onlyOwner
	setTaxFeePercent	External	✓	onlyOwner
	setLiquidityFeePercent	External	✓	onlyOwner
	setPercentageOfLiquidityForMarketing	External	✓	onlyOwner
	setMaxWalletTokens	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	setUniswapRouter	External	✓	onlyOwner
	setUniswapPair	External	✓	onlyOwner
	setExcludedFromAutoLiquidity	External	✓	onlyOwner
	_reflectFee	Private	✓	
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	takeTransactionFee	Private	✓	
	calculateFee	Private		
	isExcludedFromFee	Public		-
	_approve	Private	✓	
	_transfer	Private	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	swapTokensForBnb	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_transferBothExcluded	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	

# Contract Flow



## Domain Info

<b>Domain Name</b>	coingri.com
<b>Registry Domain ID</b>	7229015
<b>Creation Date</b>	2021-12-13T13:23:29Z
<b>Updated Date</b>	2022-05-26T18:27:02Z
<b>Registry Expiry Date</b>	2023-12-13T13:23:29Z
<b>Registrar WHOIS Server</b>	whois.bluehost.com
<b>Registrar URL</b>	<a href="http://www.bluehost.com/">http://www.bluehost.com/</a>
<b>Registrar</b>	FastDomain Inc.
<b>Registrar IANA ID</b>	1154

The domain was created 11 months before the creation of the audit. It will expire in about 1 year.

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

## Summary

The Smart Contract analysis reported one medium severity issue. The contract owner has the authority to stop transactions. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. There is also a limit of max 18% fees.

## Disclaimer

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



The Cyberscope team

<https://www.cyberscope.io>