Cyberscope

Audit Report

GoldRushToken

May 2022

Type	BEP20
Network	BSC
Address	0x45c72444b302a1bb89e52bda760bed4c94fee0a2
Audited by	© cyberscope

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Contract Review

Contract Name	GoldRushToken
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	
Explorer	https://bscscan.com/token/0x45c72444B302a1Bb89E52bdA760BeD4c94FEE0a2
Symbol	$GRUSH
Decimals	18
Total Supply	1,000,000,000
Domain	grush.finance

Audit Updates

Initial Audit	3rd June 2022
Corrected	

Source Files

Filename	SHA256
@openzeppelin/contracts/access/Ownable.sol	75e3c97011e75627ffb36f4a2799a4e887e1a3e27ed427490e82d7b6f51cc5c9
@openzeppelin/contracts/interfaces/IERC20.sol	1e78c90db4e4838c0a603bfbd2bafa2c38ba997769043e2a6045ad9e73764b60
@openzeppelin/contracts/token/ERC20/IERC20.sol	6eacf8ca56b41b7636489c0996d8f9608b4d298879a1fd5d876f21ad7a6711f1
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a23a4baa0b5bd9add9fb6d6a1549814a
@openzeppelin/contracts/utils/math/SafeMath.sol	15941f3904992a62ed117e93d9e2d5c4c22bd09a7ff97fdd5f49273cf09703ac
contracts/GoldRushToken.sol	a4a65f3601dae071131806e240c0c8d195be7222d9ed1696a82a0137b5dd24a8
contracts/IPancakeswapV2Factory.sol	8396e3c9680098a54247c6890bac80eaca01d924c0e3a6c6d65aba5c667339b8
contracts/IPancakeswapV2Router01.sol	d373c88b8f3606b5e1f467905c71d4f495c9489cb97d2ce5e7cca0ab6db8a994
contracts/IPancakeswapV2Router02.sol	fa507ffea309286d49534bae216c36c1b5ccc7020561caab02cd2757ca857dbe

Contract Analysis

Critical Medium Minor Pass

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
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

Contract Diagnostics

Critical Medium Minor

Severity	Code	Description
	L01	Public Function could be Declared External
	L04	Conformance to Solidity Naming Conventions
	L05	Unused State Variable
	L11	Unnecessary Boolean equality

L01 - Public Function could be Declared External

Criticality	minor
Location	@openzeppelin/contracts/access/Ownable.sol#L54,62 contracts/GoldRushToken.sol#L96,101,105,110,116,121

Description

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

```
decreaseAllowance
increaseAllowance
transferFrom
approve
allowance
transfer
transferOwnership
renounceOwnership
```

Recommendation

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

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contracts/GoldRushToken.sol#L163,171,13,14,15,21 contracts/IPancakeswapV2Router01.sol#L7

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.

```
WETH
_total
_decimals
_symbol
_name
_fees
SetFees
_enabled
```

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	contracts/GoldRushToken.sol#L22

Description

There are segments that contain unused state variables.

```
MAX
```

Recommendation

Remove unused state variables.

L11 - Unnecessary Boolean equality

Criticality	minor
Location	contracts/GoldRushToken.sol#L138,144

Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
require(bool,string)(_isExcludedFromFee[account] == true,This account was
already included)
require(bool,string)(_isExcludedFromFee[account] == false,This account was
already excluded)
```

Recommendation

Remove the equality to the boolean constant.

Contract Functions

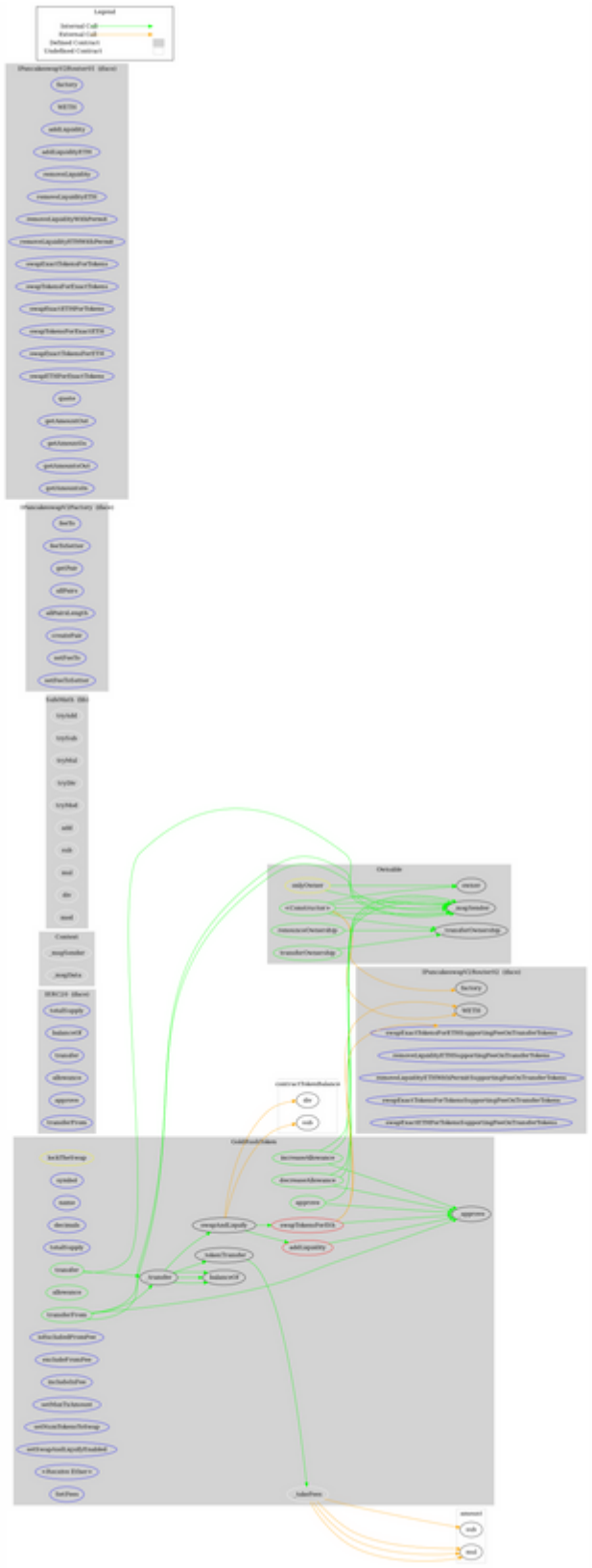
Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
SafeMath	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		
GoldRushToken	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	symbol	External		-
	name	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_approve	Private	✓	
	isExcludedFromFee	External		-
	excludeFromFee	External	✓	onlyOwner
	includeInFee	External	✓	onlyOwner
	setMaxTxAmount	External	✓	onlyOwner
	setNumTokensToSwap	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	SetFees	External	✓	onlyOwner
	_transfer	Private	✓	
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	_takeFees	Internal	✓	

	_tokenTransfer	Private	✓	
IPancakeswap V2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IPancakeswap V2Router01	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		-

IPancakeswapV2Router02	Interface	IPancakeswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-

Contract Flow



Domain Info

Domain Name	grush.finance
Registry Domain ID	93200f5bad57486fbf55a63bce8ce40b-DONUTS
Creation Date	2022-03-11T05:19:55Z
Updated Date	2022-04-18T05:39:41Z
Registry Expiry Date	2023-03-11T05:19:55Z
Registrar WHOIS Server	http://www.hostinger.com
Registrar URL	http://www.hostinger.com
Registrar	Hostinger, UAB
Registrar IANA ID	1636

The domain has been created 3 months before the creation of the audit. It will expire in 9 months.

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

Summary

GoldRushToken is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. 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 limit of max 20% fees.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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The Cyberscope team disclaims any liability for the resulting losses.

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