



Cyberscope

# Audit Report

## **GrowRich**

August 2022

Type	ERC20
Network	ROPSTEN ETH
Address	0x491EcabadDAbC8cfbBa6f174825eCb08ad0cd868
Audited by	© cyberscope

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# Contract Review

<b>Contract Name</b>	GrowRich
<b>Compiler Version</b>	v0.8.16+commit.07a7930e
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://ropsten.etherscan.io/address/0x491ecabaddabc8cfbba6f174825ecb08ad0cd868">https://ropsten.etherscan.io/address/0x491ecabaddabc8cfbba6f174825ecb08ad0cd868</a>
<b>Symbol</b>	GrowRich
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	18ea8492a10f4869d6ff3993645bdc9d10b2c1c95d4bceef7a248ff0a583ca64

## Audit Updates

<b>Initial Audit</b>	22nd August 2022 <a href="https://github.com/cyberscope-io/audits/tree/main/v1/growrichz/mgb.pdf">https://github.com/cyberscope-io/audits/tree/main/v1/growrichz/mgb.pdf</a>
<b>Corrected</b>	26th August 2022

# Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

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	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	US	Untrusted Source	Unresolved
●	FSA	Fixed Swap Address	Acknowledged

## US - Untrusted Source

<b>Criticality</b>	medium
<b>Location</b>	contract.sol#L957
<b>Status</b>	Unresolved

### Description

The contract uses an external contract in order to determine the transaction's flow. The external contract is untrusted. As a result it may produce security issues and harm the transactions.

The `rescheduleNewStakingRound` could revert.

```
ITokenStakingGrowRich(stakingContractWallet).rescheduleNewStakingRound();
```

### Recommendation

It is recommended to use try-catch statement, in order to protect the transaction's flow,

The contract should use a trusted external source. A trusted source could be either a commonly recognized or an audited contract. The pointing addresses should not be able to change after the initialization.

## FSA - Fixed Swap Address

Criticality	minor / informative
Location	contract.sol#L891
Status	Acknowledged

### 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.

```
uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(
    0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D
);
uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
    .createPair(address(this), _uniswapV2Router.WETH());
```

### Recommendation

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

### Updated 26 August 2022

The team has acknowledged that it is not a security issue.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IUniswapV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	getPair	External		-
	allPairs	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	IUniswapV2		

<b>Router02</b>		Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>ITokenStaking GrowRich</b>	Interface			
	rescheduleNewStakingRound	External	✓	-
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	decimals	External		-
	symbol	External		-
<b>Context</b>	Implementation			
	_msgSender	Internal		
<b>ERC20</b>	Implementation	Context, IERC20, IERC20Metadata		
	<Constructor>	Public	✓	-
	symbol	External		-

	totalSupply	External		-
	name	External		-
	balanceOf	Public		-
	decimals	Public		-
	allowance	Public		-
	transfer	External	✓	-
	approve	External	✓	-
	transferFrom	External	✓	-
	decreaseAllowance	External	✓	-
	increaseAllowance	External	✓	-
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_transfer	Internal	✓	
<b>GrowRich</b>	Implementation	ERC20		
	<Constructor>	Public	✓	ERC20
	_transfer	Internal	✓	
	_takeTaxGetSum	Private	✓	
	_burnFromStrategicReserves	Private	✓	
	_swapAndLiquify	Private	✓	lockTheSwap
	_swapTokensForEth	Private	✓	
	_addLiquidity	Private	✓	
	_swapTokensForUSDC	Private	✓	lockTheSwap
	_distributeToWalletsUSDC	Private	✓	
	<Receive Ether>	External	Payable	-

# Contract Flow



## Summary

GrowRich is an interesting project that has a friendly and growing community. The TokenStakingGrowRich contract is out of the scope of this audit. 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 fixed fee limit of 15%.

# Disclaimer

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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>