

Audit Report Starz Token

October 2022

Type BEP20

Network BSC

Address 0x34BEd6DB1e7dDD73B6a68d05e43f9f29c45f56bE

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Contract Review

Contract Name	StarzToken
Compiler Version	v0.8.16+commit.07a7930e
Optimization	200 runs
Explorer	https://bscscan.com/token/0x34BEd6DB1e7dDD73B6a6 8d05e43f9f29c45f56bE
Symbol	STZ
Decimals	18
Total Supply	1,000,000,000
Domain	https://www.starzeconomy.com

Audit Updates

Initial Audit	15th October 2022
Corrected	



Source Files

Filename	SHA256
access/Ownable.	fc4c61330f0debce7f32d0e8791f103fe9bb4a33871f1b24 4b7f178da978dff7
interfaces/IFacto ryV2.sol	521f15776da7e1d4f4dc193eb047810ff64816b784ed814f d13ece4f9c6f823c
interfaces/IRoute r02.sol	489305217e5b06bb6d6950160fb5844a4be2e2873f7635 5245393d7c16857cf6
interfaces/IV2Pai r.sol	7ff165357268f0b059cf25dfe6add5a807fe5fa818142de24 d7976f98cdab7e6
StarzToken.sol	e74e55b83d0b43eba60d7739faf44d5478b021d9934e08 3478cd167fee9e3b97
token/ERC20/ER C20.sol	9224c292940b449ce4d662ff73ce8ca4a1566598cbdcb52 b6b22ed0279226e8c
token/ERC20/ext ensions/IERC20 Metadata.sol	af5c8a77965cc82c33b7ff844deb9826166689e55dc037a 7f2f790d057811990
token/ERC20/IER C20.sol	94f23e4af51a18c2269b355b8c7cf4db8003d075c9c5410 19eb8dcf4122864d5
utils/Context.sol	c4b93837b3b217c794b4e851b20ef4c70d0d164a06e5e5 53c5d860a6c8fe82dd

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	Unresolved
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



ULTW - Transfers Liquidity to Team Wallet

Criticality	minor / informative
Location	contract.sol#L385
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 claimStuckTokens method with token argument as zero address.

```
function claimStuckTokens(address token) external onlyOwner {
  require(token != address(this), 'Owner cannot claim native tokens');
  if (token == address(0x0)) {
    payable(msg.sender).transfer(address(this).balance);
    return;
  }
  IERC20 ERC20token = IERC20(token);
  uint256 balance = ERC20token.balanceOf(address(this));
  ERC20token.transfer(msg.sender, 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
•	STC	Succeeded Transfer Check	Unresolved
•	L02	State Variables could be Declared Constant	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L13	Divide before Multiply Operation	Unresolved



STC - Succeeded Transfer Check

Criticality	minor / informative
Location	contract.sol#L393
Status	Unresolved

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

ERC20token.transfer(msg.sender, balance);

Recommendation

The contract should check if the result of the transfer methods is successful.



L02 - State Variables could be Declared Constant

Criticality	minor / informative
Location	contracts/StarzToken.sol#L21
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

tokenSupply

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contracts/StarzToken.sol#L316
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.

_enabled

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	contracts/StarzToken.sol#L415
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.

swap Tokens At Amount = new Amount

Recommendation

Emit an event for critical parameter changes.



L13 - Divide before Multiply Operation

Criticality	minor / informative
Location	contracts/StarzToken.sol#L185
Status	Unresolved

Description

Performing divisions before multiplications may cause lose of prediction.

```
fees = (amount * buyTotalFees) / FEE_DENOMINATOR
tokensForLiquidity += (fees * sellLiquidityFee) / sellTotalFees
tokensForOperations += (fees * sellOperationsFee) / sellTotalFees
```

Recommendation

The multiplications should be prior to the divisions.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Ownable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IFactoryV2	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	1	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	√	-
	removeLiquidityWithPermit	External	√	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	1	_

	swapTokensForExactTokens	External	1	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
modicioz	removeLiquidityETHSupportingFeeO	External	1	_
	nTransferTokens	External	•	
	removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	1	-
IV2Pair	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	✓	-

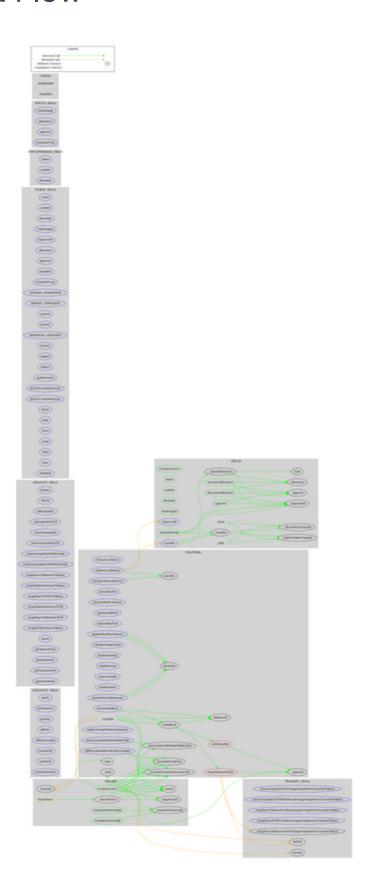
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	1	-
	burn	External	✓	-
	swap	External	1	-
	skim	External	✓	-
	sync	External	1	-
	initialize	External	1	-
StarzToken	Implementation	ERC20, Ownable		
	<constructor></constructor>	Public	1	ERC20
	<receive ether=""></receive>	External	Payable	-
	setAutomatedMarketMakerPair	External	1	onlyOwner
	_setAutomatedMarketMakerPair	Private	1	
	excludeFromFees	Public	1	onlyOwner
	addPresaleAddressForExclusions	External	1	onlyOwner
	includeInFee	External	✓	onlyOwner
	isExcludedFromFees	External		-
	updateSellFees	External	1	onlyOwner
	updateBuyFees	External	✓	onlyOwner
	_excludeFromMaxTransaction	Private	✓	
	_transfer	Internal	✓	
	swapTokensForEth	Private	1	
	addLiquidity	Private	1	
	changeSwapStatus	External	✓	onlyOwner
	swapBack	Private	✓	
	enableTrading	External	✓	onlyOwner
	enableSwap	External	1	onlyOwner
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	removeLimits	External	1	onlyOwner
	enableLimits	External	√	onlyOwner
	claimStuckTokens	External	✓	onlyOwner
	setOperationsAddress	External	✓	onlyOwner
	forceSwapBack	External	✓	onlyOwner
	updateSwapTokensAtAmount	External	✓	onlyOwner
	updateMaxBuyAmount	External	✓	onlyOwner
	updateMaxSellAmount	External	✓	onlyOwner
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<constructor></constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	√	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
IERC20Metad ata	Interface	IERC20		

	symbol	External		-
	decimals	External		-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		



Contract Flow



Domain Info

Domain Name	https://www.starzeconomy.com
Registry Domain ID	2729703721_DOMAIN_COM-VRSN
Creation Date	2022-10-04T09:17:41.00Z
Updated Date	0001-01-01T00:00:00.00Z
Registry Expiry Date	2023-10-04T09:17:41.00Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Registrar	NAMECHEAP INC
Registrar IANA ID	1068

The domain was created 11 days before the creation of the audit. It will expire in 12 months.

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

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 fee of 20%.

Disclaimer

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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.

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