

RugFreeCoins Audit



Sports Verse Token
Smart Contract Security Audit
September 13 2022

Contents

Audit details	1
Disclaimer	2
Overview	3
Background	4
Target market and the concept	6
Potential to grow with score points	7
Total Points	7
Contract details	3
Contract code function details	ç
Contract description table	11
Security issue checking status	17
Owner privileges	18
Audit conclusion	21

Audit details





Contract Address

0x374827A70f08805650f2408B4aaC1B490275eF0B



Client contact

Sportsverse Team



Blockchain

Binance smart chain



Project website

https://sportsverse.me/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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Overview

- ✓ No mint function found; the owner cannot mint tokens after initial deployment.
- ✓ There are no max tx limits and max wallet limits in the contract.
- ✓ The owner can't pause trading.
- ✓ The owner can't set fees over 25%.
- Owner can't blacklist wallets.
- ✓ The owner can't claim the contract's balance of its own token.

Background

Rugfreecoins was commissioned by the Sportsverse Team to perform an audit of the smart contract.

https://bscscan.com/token/0x374827A70f08805650f2408B4aaC1B490275eF0B

The focus of this audit is to verify that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the security posture of the smart contract by remediating the issues that were identified.

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Tokenomics

10% when buying & selling

- 2% of trade goes to the Ecosystem fund wallet in BNB.
- 3% of trade goes to the Marketing, Maintenance & Management Wallet in BNB.

Target market and the concept

Target market

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's ready to take part in Sportverse game and receiving rewards.
- Anyone who's interested in taking part in the future plans of the Sportsverse.
- Anyone who's interested in making financial transactions with any other party using Sportsverse Token as the currency.

Potential to grow with score points

1.	Project efficiency	9/10
2.	Project uniqueness	9/10
3	Information quality	9/10
4	Service quality	9/10
5	System quality	8/10
6	Impact on the community	8/10
7	Impact on the business	9/10
8	Preparing for the future	9/10
9	Smart contract security	10/10
10	Smart contract functionality assessment	10/10
Total Points		9/10

Contract details

Token contract details for 13th of September 2022

Contract name	Sportsverse
Contract address	0x374827A70f08805650f2408B4aaC1B490275eF0B
Token supply	1,000,000,000
Token ticker	SV
Decimals	18
Token holders	3
Transaction count	4
Ecosystem wallet	0xf1816468234d473d4bb581a2b9638613d57a7afb
Marketing wallet	0x45cb6fbbaca2951f57b384ffb1596b467516aaa8
Contract deployer address	0xb58ced7120dad8a6a04968577ec1daf00a707795
Contract's current owner address	0xb58ced7120dad8a6a04968577ec1daf00a707795

Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Self-destruct function security	pass
3	Business security	Access control of owners	
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass

13 Event security pass

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Sportsvers e	Implementation	IERC20, Ownable		
L		Public		NO
L		External	GD	NO
L	totalSupply	External		NO
L	name	Public		NO
L	symbol	Public [NO
L	decimals	Public [NO
L	currentBalance	Public [NO
L	balanceOf	Public [NO
L	allowance	External		NO
L	approve	Public [NO
L	_approve	Internal 🦺		
L	approveMax	External		NO
L	transfer	External		NO
L	transferFrom	External		NO

L	_transferFrom	Internal 🦺	
L	_basicTransfer	Internal 🖺	
L	shouldTakeFee	Internal 🖺	
L	takeFee	Internal 🖺	
L	shouldSwapBack	Internal 🖺	
L	clearStuckBalance	External .	onlyOwner
L	updateFees	Public [onlyOwner
L	updateSwapAmounts	Public	onlyOwner
L	enableTrading	Public	onlyOwner
L	whitelistPreSale	Public	onlyOwner
L	swapBackInBnb	Internal 🖺	swapping
L	swapTokensForEth	Private 🖺	
L	setIsFeeExempt	External [onlyOwner
L	changeMarketingWallet	External	onlyOwner
L	changeEcosystemWallet	External	onlyOwner
L	setSwapBackSettings	External	onlyOwner
Ownable	Implementation	Context	
L		Public	NO
L	owner	Public	NO
L	_checkOwner	Internal 🖺	
			1

L	renounceOwnership	Public	onlyOwner
L	transferOwnership	Public [onlyOwner
L	_transferOwnership	Internal 🦺	
IERC20	Interface		
L	totalSupply	External [NO
L	balanceOf	External	NO
L	transfer	External	NO
L	allowance	External	NO
L	approve	External	NO
L	transferFrom	External [NO
		<u> </u>	
SafeMath	Library		
L	tryAdd	Internal 🖺	
L	trySub	Internal 🖺	
L	tryMul	Internal 🖺	
L	tryDiv	Internal 🖺	
L	tryMod	Internal 🖺	
L	add	Internal 🖺	
L	sub	Internal 🖺	
L	mul	Internal 🖺	
L	div	Internal 🦺	

L	mod	Internal 🦺		
L	sub	Internal 🦺		
L	div	Internal 🦺		
L	mod	Internal 🦺		
IUniswapV 2Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTransfer Tokens	External [NO.
L	removeLiquidityETHWithPermitSupportingFee OnTransferTokens	External		NO.
L	swapExactTokensForTokensSupportingFeeO nTransferTokens	External		NO.
L	swapExactETHForTokensSupportingFeeOnTr ansferTokens	External	<u>co</u>	NO.
L	swapExactTokensForETHSupportingFeeOnTr ansferTokens	External		NO
IUniswapV 2Factory	Interface			
L	feeTo	External		NO.
L	feeToSetter	External		NO.
L	getPair	External		NO.
L	allPairs	External		NO !
L	allPairsLength	External		NO !
L	createPair	External		NO.
L	setFeeTo	External		NO.

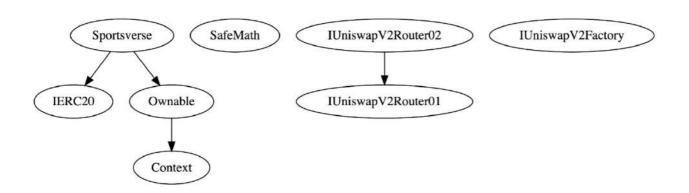
L	setFeeToSetter	External		NO
Context	Implementation			
L	_msgSender	Internal 🖺		
L	_msgData	Internal 🖺		
IUniswapV 2Router01	Interface			
L	factory	External		NO.
L	WETH	External		NO
L	addLiquidity	External		NO
L	addLiquidityETH	External	ED	NO
L	removeLiquidity	External		NO
L	removeLiquidityETH	External		NO.
L	removeLiquidityWithPermit	External		NO
L	removeLiquidityETHWithPermit	External		NO.
L	swapExactTokensForTokens	External		NO
L	swapTokensForExactTokens	External		NO.
L	swapExactETHForTokens	External	<u>u</u>	NO.
L	swapTokensForExactETH	External		NO.
L	swapExactTokensForETH	External		NO.
L	swapETHForExactTokens	External	<u>up</u>	NO.

L	quote	External	NO
L	getAmountOut	External	NO.
L	getAmountIn	External	NO
L	getAmountsOut	External	NO
L	getAmountsIn	External	NO

Legend

Symbol	Meaning
	Function can modify state
S :	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues No High severity issues found

Medium severity issues No medium severity issues found

Low severity issues No low severity issues found

Centralization Risk No Centralization Risk found

Owner privileges

Owner can get contract bnb balance to owner wallet

```
ftrace|funcSig
function clearStuckBalance(uint256 amountPercentage 1) external onlyOwner {
    uint256 amountBNB = address(this).balance;
    payable(msg.sender).transfer((amountBNB * amountPercentage 1) / 100);
}
```

Owner can update buy and sell fees, total fees maximum up to 25%

```
ftrace|funcSig
function updateFees(uint256 buyFee1, uint256 sellFee1) public onlyOwner {
   buyTotalFees = buyFee1;
   sellTotalFees = sellFee1;

require(
   buyTotalFees.add(sellTotalFees) <= 25,
   "Total Fees can not be grater than 25%"
);
}</pre>
```

Owner can change all swap percentages

```
ftrace|funcSig
function updateSwapAmounts(uint256 _ecosystemSwap1, uint256 _marketingSwap1)
   public
   onlyOwner
{
    ecosystemSwap = _ecosystemSwap1;
    marketingSwap = _marketingSwap1;

   totalSwap = _ecosystemSwap1.add(_marketingSwap1);
}
```

❖ Owner can enable trading, once enabled cannot disable again

```
// switch Trading
ftrace|funcSig
function enableTrading() public onlyOwner {
    tradingOpen = true;
}
```

Owner can whitelist pre-sale address

```
ftrace|funcSig
function whitelistPreSale(address _preSale1) public onlyOwner {
   isFeeExempt[_preSale1] = true;
   isAuthorized[_preSale1] = true;
}
```

Owner can exclude/include wallets from fees

```
ftrace|funcSig
function setIsFeeExempt(address holder1, bool exempt1) external onlyOwner {
   isFeeExempt[holder1] = exempt1;
}
```

Owner can change marketing wallet

```
ftrace|funcSig
function changeMarketingWallet(address _marketingFeeReceiver1)
    external
    onlyOwner
{
    marketingFeeReceiver = _marketingFeeReceiver1;
}
```

Owner can change eco system wallet

```
ftrace|funcSig
function changeEcosystemWallet(address newWallet1) external onlyOwner {
    ecoSystemWallet = newWallet1;
}
```

Owner can enable/disable swapping and can change swap point

```
ftrace|funcSig
function setSwapBackSettings(bool _enabled ↑, uint256 _amount ↑)
    external
    onlyOwner
{
    swapEnabled = _enabled ↑;
    swapThreshold = _amount ↑;
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testings, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status: PASS

Number of risk issues: 0

Solidity code functional issue level: PASS

Number of owner privileges:

Centralization risk correlated to the active owner: LOW

Smart contract active ownership: YES