



RUGFREECOINS



# Launch Verse Token

RugfreeCoins Verified on November 14th, 2023

# Overview

- ✓ No mint function found, the owner cannot mint tokens after initial deployment.
- ✓ The owner can't set a max transaction limit
- ✓ The owner can't pause trading once it's enabled
- ✓ The owner can't change fees over 12% (Buy fee 5% and 7% Sell).
- ✓ The owner can't blacklist wallets.
- ✓ The owner can't set a max wallet limit minimum of up-to 1%.
- ✓ The owner can't claim the contract's balance of its own token.

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## Audit details



**Audited project**

Launch Verse Token



**Contract Address**

0xb9934C771f178B44d98B15cb10bB02D2716a25C6



**Client contact**

Launch Verse Token Team



**Blockchain**

Ethereum



**Project website**

<https://launchverse.space/>

# 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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

# Background

**RugfreeCoins** was commissioned by the **Launch Verse Token Team** to perform an audit of the smart contract.

<https://etherscan.io/address/0xb9934C771f178B44d98B15cb10bB02D2716a25C6>

This audit focuses on verifying 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 smart contract's security posture by remediating the identified issues.

# Tokenomics

▲ 0% tax when buying & selling












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# Target market and the concept

- ▶ 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 interested in taking part in the Launch Verse token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Launch Verse Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Launch Verse Token as the currency.



## Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	8 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	9 / 10
 Smart contract functionality assessment	10 / 10
 <b>Total Score</b>	<b>8.4 / 10</b>

# Contract details

Token contract details for 14th of November 2023





































Contract name	LaunchVerse
Contract address	0xb9934C771f178B44d98B15cb10bB02D2716a25C6
Token supply	1,000,000
Token ticker	XLV
Decimals	9
Token holders	1
Transaction count	1
Contract deployer address	0x140cb60dB6942c49C2da8c631D7F76cCfCE22D07
Contract's current owner address	0xEd64B363f7698b27265b8680Ac3B68ddfBA80a30
Marketing wallet	0xA9e5C9ceE6f57864F18135f6Cc2c3A137E133020

# Contract code function details


Nº	Category	Item	Result
1	Coding conventions	ERC20 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 ▾
2	Function call audit	Overriding variables	PASS ▾
		Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
3	Business security & centralisation	Self destruct function security	PASS ▾
		Access control of owners	PASS ▾
		Business logics	PASS ▾
4	Integer overflow/underflow	Business implementation	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	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	_checkOwner	Internal 		
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L	_transferOwnership	Internal 		
IUniswapV2 Router01	Interface			
L	factory	External 		NO 
L	WETH	External 		NO 
L	addLiquidity	External 		NO 
L	addLiquidityETH	External 		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 !		NO !
L	swapTokensForExactETH	External !		NO !
L	swapExactTokensForETH	External !		NO !
L	swapETHForExactTokens	External !		NO !
L	quote	External !		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
<b>IUniswapV2 Router02</b>	<b>Interface</b>	<b>IUniswapV2 Router01</b>		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External !		NO !
L	balanceOf	External !		NO !
L	transfer	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !

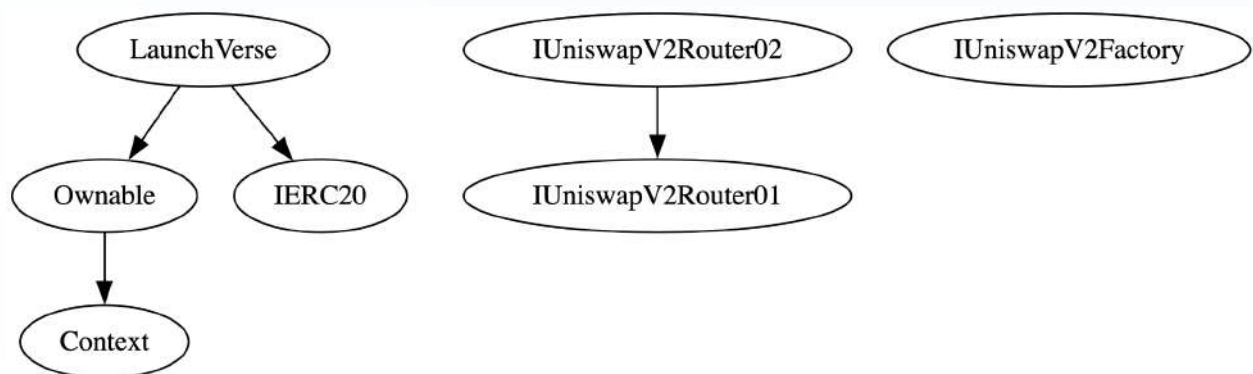
IUniswapV2 Factory	Interface			
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !
L	createPair	External !		NO !
L	setFeeTo	External !		NO !
L	setFeeToSetter	External !		NO !
LaunchVerse	Implementation	IERC20, Ownable		
L		Public !		NO !
L		External !		NO !
L	totalSupply	External !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	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	takeFee	Internal 		
L	_basicTransfer	Internal 		
L	shouldTakeFee	Internal 		

L	shouldDoContractSwap	Internal 🔒		
L	doContractSwap	Internal 🔒	🛑	swapping
L	swapTokensForEth	Private 🔒	🛑	
L	setIsFeeExempt	External !	🛑	onlyOwner
L	setDoContractSwap	External !	🛑	onlyOwner
L	changeInvestmentWallet	External !	🛑	onlyOwner
L	changeMarketingDevWallet	External !	🛑	onlyOwner
L	changeSellFees	External !	🛑	onlyOwner
L	changeBuyFees	External !	🛑	onlyOwner
L	rescueETH	External !	🛑	onlyOwner
L	changeSwapPoint	External !	🛑	onlyOwner
L	changeMaxWallet	External !	🛑	onlyOwner

### Legend

Symbol	Meaning
🛑	Function can modify state
💰	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



# Owner privileges

- ❖ Owner can include/exclude wallets from fees

```
function setIsFeeExempt(address holder, bool exempt) external onlyOwner {  
    isFeeExempt[holder] = exempt;  
  
    emit SetIsFeeExempt(holder, exempt);  
}
```

- ❖ Owner can enable/disable swapping

```
function setDoContractSwap(bool _enabled) external onlyOwner {  
    contractSwapEnabled = _enabled;  
  
    emit SetDoContractSwap(_enabled);  
}
```

- ❖ Owner can change marketing and investment wallets

```
function changeInvestmentWallet(address _wallet) external onlyOwner {  
    investmentWallet = _wallet;  
}  
  
function changeMarketingDevWallet(address _wallet) external onlyOwner {  
    marketingDevWallet = _wallet;  
}
```

- ❖ Owner can change all sell fees total sell fees maximum up-to 7%

```
function changeSellFees(  
    uint256 _sellInvestmentFee,  
    uint256 _sellMarketingFee  
) external onlyOwner {  
    sellInvestmentFee = _sellInvestmentFee;  
    sellMarketingFee = _sellMarketingFee;  
    sellTotalFee = _sellInvestmentFee + _sellMarketingFee;  
  
    require(sellTotalFee <= 7, "can not greater than 7%");  
}
```

- ❖ Owner can change all buy fees total buy fees maximum up-to 5%

```
function changeBuyFees(  
    uint256 _buyInvestmentFee,  
    uint256 _buyMarketingFee  
) external onlyOwner {  
    buyInvestmentFee = _buyInvestmentFee;  
    buyMarketingFee = _buyMarketingFee;  
    buyTotalFee = _buyInvestmentFee + _buyMarketingFee;  
  
    require(buyTotalFee <= 5, "can not greater than 5%");  
}
```

- ❖ Owner can enable trading, but once enabled can not disable it again

```
function enableTrading() external onlyOwner {  
    require(!isTradeEnabled, "Trading already enabled");  
    isTradeEnabled = true;  
}
```

- ❖ Owner can add/remove authorized wallets, and authorized wallets can do transactions before enabling trading

```
function setAuthorizedWallets(  
    address _wallet,  
    bool _status  
) external onlyOwner {  
    isAuthorized[_wallet] = _status;  
}
```

- ❖ Owner can get ETH from the contract

```
function rescueETH() external onlyOwner {  
    uint256 balance = address(this).balance;  
    require(balance > 0, "No enough ETH to transfer");  
  
    payable(msg.sender).transfer(balance);  
}
```

- ❖ Owner can change the swap point

```
function changeSwapPoint(uint256 _amount) external onlyOwner {  
    swapThreshold = _amount;  
}
```

- ❖ Owner can change the max wallet limit

```
function changeMaxWallet(uint256 _amount) external onlyOwner {  
    require(_amount >= 10000 * 10 ** 9, "amount should be greater than 1%");  
    maxWalletAmount = _amount;  
}
```

## Audit conclusion

RugFreeCoins team has performed in-depth testing, 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 ▾
Smart contract security Status:	No Issues ▾
Number of risk issues:	0
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	10
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾