

TechRate
October, 2022



SMART CONTRACTS SECURITY AUDIT REPORT



Techrate_audits



Techrate



Techrate1

Audit Details



Audited project

BetCoVerse



Deployer address

0x7863d1c6f74ebb0d4c7c0bdbe40eeb963de005a0



Client contacts:

BetCoVerse Team



Blockchain

Binance Smart Chain



Project website:

<https://betc8.org/>

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

TechRate was commissioned by BetCoVerse to perform an audit of smart contracts:

<https://bscscan.com/address/0x231048ED03E11D58925E5700f7362705A7F92E56> - code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Passed
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Low issues
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

No low severity issues found.

Notes:

























- Burn address is 0x4e8365EBd0ed71e38c2Bdf0bC88823EffA324a47
- Owner is not deployer address.

Owner privileges (In the period when the owner is not renounced)



- Owner can withdraw BEP20 tokens and native tokens.
- Owner can change minTokenNumberToSell.
- Owner can change maxTxAmount.
- Owner can launch the contract.
- Owner can enable/disable swap.
- Owner can exclude from the fees and limits.
- Owner can add/remove snipers.
- Owner can change fee receivers.
- Owner can change fees.
- Owner can change router and pair addresses.

Testnet deployment

Contracts Description Table

Contract	Type	Bases	Mutability	Modifiers
L	Function Name	Visibility		
BetCoVerse	Implementation	Context, IBEP20, Ownable		
L	transfer	Public !		NO!
L	approve	Public !		NO!
L	transferFrom	Public !		NO!
L	increaseAllowance	Public !		NO!
L	decreaseAllowance	Public !		NO!
L	excludeFromFee	Public !		onlyOwner
L	includeInFee	Public !		onlyOwner
L	setMinTokenNumberToSell	Public !		onlyOwner
L	setSwapAndLiquifyEnabled	Public !		onlyOwner
L	launch	Public !		onlyOwner
L	setTxLimit	External !		onlyOwner
L	setIsTxLimitExempt	External !		onlyOwner
L	addSniperInList	External !		onlyOwner
L	removeSniperFromList	External !		onlyOwner
L	setMarketWallet	External !		onlyOwner
L	setStakingWallet	External !		onlyOwner
L	setLoyaltyWallet	External !		onlyOwner
L	setDevWallet	External !		onlyOwner
L	setBuyBackWallet	External !		onlyOwner
L	setRoute	External !		onlyOwner
L	withdrawBNB	External !		onlyOwner
L	withdrawToken	External !		onlyOwner
L	setBuyFeePercent	External !		onlyOwner
L	setSellFeePercent	External !		onlyOwner

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Conclusion

Smart contracts contain does not high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are NOT provided by the team.

Security score: 86.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.