

Audit Report

Lanco - Decentralized Freelancing Platform

July 2023

Network BSC

Address 0x270fdb771725e1718f9937ce4f79bc3405ae2614

Audited by © cyberscope



Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L13	Divide before Multiply Operation	Unresolved



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Review

Contract Name	Lanco
Compiler Version	v0.8.20+commit.a1b79de6
Optimization	200 runs
Explorer	https://bscscan.com/address/0x270fdb771725e1718f9937ce4f7 9bc3405ae2614
Address	0x270fdb771725e1718f9937ce4f79bc3405ae2614
Network	BSC
Symbol	\$LANC
Decimals	18
Total Supply	1,000,000,000

Audit Updates

Initial Audit	31 Jul 2023 https://github.com/cyberscope-io/audits/blob/main/lanc/v1/audit.pdf
Corrected Phase 2	07 Aug 2023



Source Files

Filename	SHA256
src/Vesting.sol	a212a9b7352682b53bdd1968d0fd057542 6f32e3934bbeb95d34f2f52a869c3e
src/LancToken.sol	b50fff2f3fc82dc56af0f6d68749ce6fa03cb d193ecbac76bbfad80e72a32b89
@openzeppelin/contracts/utils/Context.sol	1458c260d010a08e4c20a4a517882259a2 3a4baa0b5bd9add9fb6d6a1549814a
@openzeppelin/contracts/utils/Address.sol	8b85a2463eda119c2f42c34fa3d942b61ae e65df381f48ed436fe8edb3a7d602
@openzeppelin/contracts/token/ERC20/IERC20.sol	7ebde70853ccafcf1876900dad458f46eb9 444d591d39bfc58e952e2582f5587
@openzeppelin/contracts/token/ERC20/ERC20.sol	d20d52b4be98738b8aa52b5bb0f88943f6 2128969b33d654fbca731539a7fe0a
@openzeppelin/contracts/token/ERC20/utils/SafeE RC20.sol	c8309ed2c1c7edf52a23833798c9450770 2248debfc4ed1f645e571e3c230f8b
@openzeppelin/contracts/token/ERC20/extensions /IERC20Permit.sol	b7383c48331f3cc9901fc05e5d5830fcd53 3699a77f3ee1e756a98681bfbb2ee
@openzeppelin/contracts/token/ERC20/extensions /IERC20Metadata.sol	af5c8a77965cc82c33b7ff844deb9826166 689e55dc037a7f2f790d057811990
@openzeppelin/contracts/finance/VestingWallet.so	c9f8d2f9404b4c16465cf6db64cbdd9cdde 5a7a1083a768bd9e5b94dcfadc5b0
@openzeppelin/contracts/access/Ownable.sol	a8e4e1ae19d9bd3e8b0a6d46577eec098c 01fbaffd3ec1252fd20d799e73393b



Findings Breakdown



Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	0	0	0	0
Minor / Informative	1	0	0	0



L13 - Divide before Multiply Operation

Criticality	Minor / Informative
Location	src/Vesting.sol#L36,39
Status	Unresolved

Description

It is important to be aware of the order of operations when performing arithmetic calculations. This is especially important when working with large numbers, as the order of operations can affect the final result of the calculation. Performing divisions before multiplications may cause loss of prediction.

Recommendation

To avoid this issue, it is recommended to carefully consider the order of operations when performing arithmetic calculations in Solidity. It's generally a good idea to use parentheses to specify the order of operations. The basic rule is that the multiplications should be prior to the divisions.



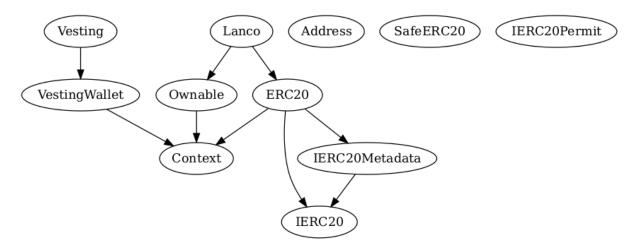
Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Vesting	Implementation	VestingWalle t		
		Public	Payable	VestingWallet
	intervel	Public		-
	_vestingSchedule	Internal		
Lanco	Implementation	ERC20, Ownable		
		Public	✓	-
		External	Payable	-
	recoverothertokens	Public	✓	onlyOwner
	recovertoken	Public	1	onlyOwner

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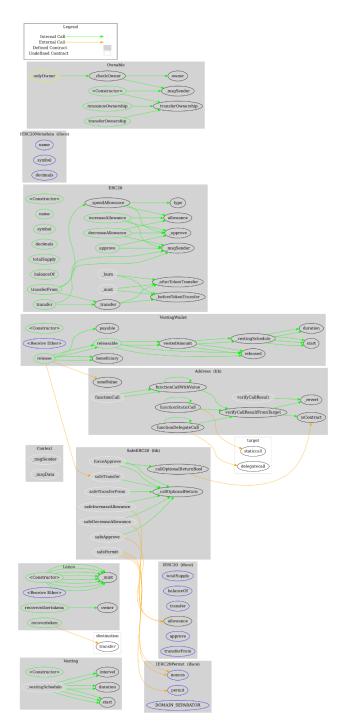


Inheritance Graph





Flow Graph



Summary

Lanco - Decentralized Freelancing Platform. contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Lanco - Decentralized Freelancing Platform. is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors 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.

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About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.

