



TechRate
AUDIT COMPANY

Smart Contract Security Audit

TechRate

November, 2021

Audit Details



Audited project

Clouch



Deployer address

0xA3d8f9aD765F61dA30e57E23ca3B7Ce4814CBF60



Client contacts:

clouch@clouch.com



Blockchain

Ethereum



Project website:

<https://clouch.com/clouch>

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 below 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 Clouch to perform an audit of smart contracts:

<https://etherscan.io/address/0x510fd78b4514dd8dcb5c74a89d89079ba62eff7c#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.

Contracts Details

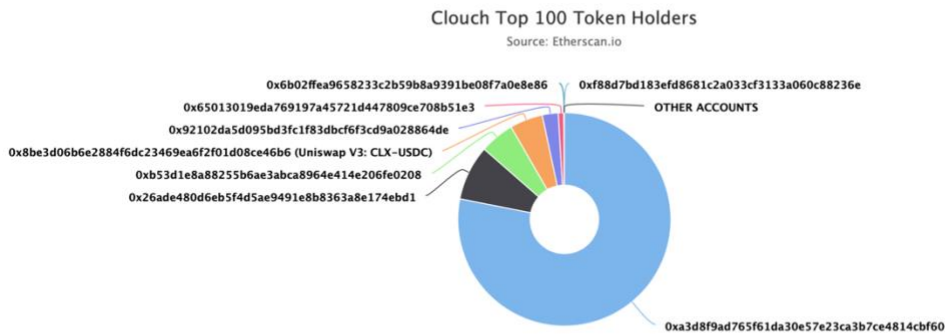
Token contract details for 06.11.2021

Contract name	Clouch
Contract address	0x510FD78B4514dd8DCb5C74a89d89079BA62eff7c
Total supply	213,888,000,000
Token ticker	CLX
Decimals	18
Token holders	41
Transactions count	45
Top 100 holders dominance	100.00%
Contract deployer address	0xA3d8f9aD765F61dA30e57E23ca3B7Ce4814CBF60

Clouch Token Distribution

The top 100 holders collectively own 100.00% (213,888,000,000.00 Tokens) of Clouch

Token Total Supply: 213,888,000,000.00 Token | Total Token Holders: 41

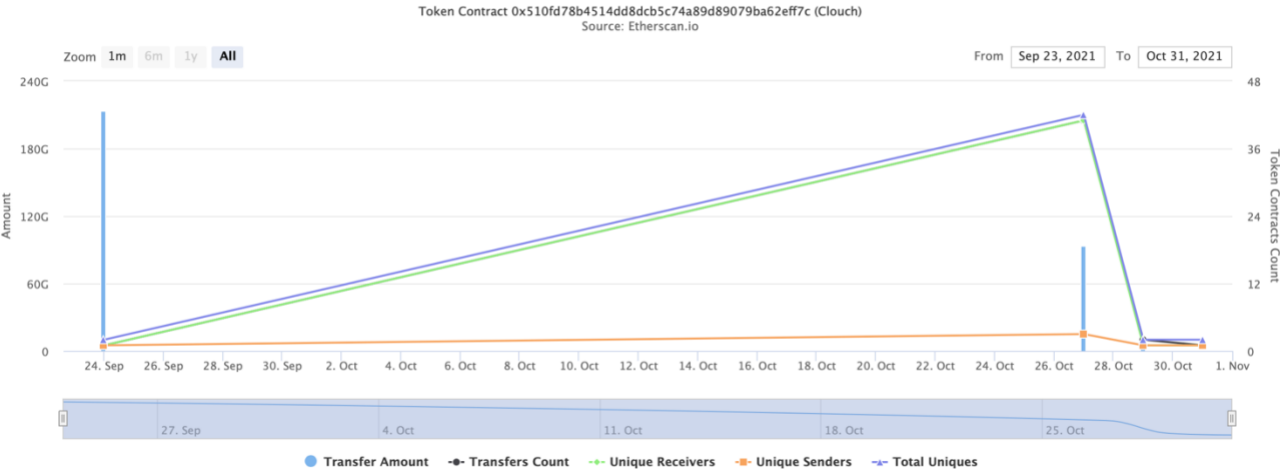


(A total of 213,888,000,000.00 tokens held by the top 100 accounts from the total supply of 213,888,000,000.00 token)


Clouch Contract Interaction Details

Time Series: Token Contract Overview

Fri 24, Sept 2021 - Sun 31, Oct 2021



Clouch Top 10 Token Holders

Rank	Address	Quantity	Percentage
1	0xa3d8f9ad765f61da30e57e23ca3b7ce4814cbf60	167,041,000,000	78.0974%
2	0x26ade480d6eb5f4d5ae9491e8b8363a8e174ebd1	17,824,000,000	8.3333%
3	0xb53d1e8a88255b6ae3abca8964e414e206fe0208	11,200,000,000	5.2364%
4	 Uniswap V3: CLX-USDC	10,693,879,999.999999636579196426	4.9998%
5	0x92102da5d095bd3fc1f83dbcf6f3cd9a028864de	5,167,145,285	2.4158%
6	0x65013019eda769197a45721d447809ce708b51e3	1,782,400,000	0.8333%
7	0x17381af7e92ca510fb100b5eaf3b777ec35e66ff	40,000,000	0.0187%
8	0x6b02ffa9658233c2b59b8a9391be08f7a0e8e86	40,000,000	0.0187%
9	0x069574a57722b6861e079c2c0ef7e71c69862fd7	10,000,160	0.0047%
10	0xfd3d2f544655c6b5e62b273739830655353eca09	10,000,000	0.0047%



Contract functions details

- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + [Int] IERC20Metadata (IERC20)
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
- + Context
 - [Int] _msgSender
 - [Int] _msgData
- + ERC20 (Context, IERC20, IERC20Metadata)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Int] _transfer #
 - [Int] _mint #
 - [Int] _burn #
 - [Int] _approve #
 - [Int] _beforeTokenTransfer #
 - [Int] _afterTokenTransfer #
- + ERC20Burnable (Context, ERC20)
 - [Pub] burn #
 - [Pub] burnFrom #
- + ERC20PresetFixedSupply (ERC20Burnable)
 - [Pub] <Constructor> #
 - modifiers: ERC20
- + Clouch (ERC20PresetFixedSupply)
 - [Pub] <Constructor> #
 - modifiers: ERC20PresetFixedSupply

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.	Passed
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.

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details are NOT provided by the team.

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.