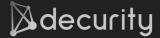


Security audit proposal

By Decurity For Asterizm



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Recent Hacks

2023 - \$1.5+ billion 2024 - \$1.1+ billion

(loss of users' funds)

Euler Finance - REKT \$197,000,000 | 03/13/2023



<u>Sonne Finance - Rekt</u> \$20,000,000 | 05/15/2024



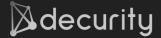
Hedgey Finance - Rekt \$44,700,000 | 04/19/2024



ZKasino - Rekt \$33,000,000 | 04/20/2024







Introduction

\$15 000 000

Rescued directly by our team

+08

Audits delivered since 2022

<u>Security Audit reports by</u>

<u>Decurity</u>





















Omar Ganiev

(CEO)

- Cybersecurity enthusiast since 2007
- Entrepreneur, winner of numerous CTF competitions, penetration tester and web3 security auditor, speaker and author









Arseniy Reutov

(CTO)

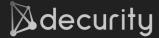
- Speaker at DEFCON, AppSec California, OWASP London, ETHDubai, TrustX
- Author of research papers on application security since 2008, developer of popular open-source tools for blockchain security











Top-notch hackers at your service

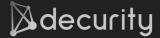


Top-2 in Paradigm CTF 2022



Top-2 in OpenZeppelin CTF 2024





• Team experience

We employ full-stack web3 hackers with vast experience both in blockchain and traditional financial systems such as banks and payment gateways.

Network

We've provided security reviews for multiple DeFi projects including Compound, Zircuit, 1inch, Yearn, Gearbox, GIVEth, Symbiosis Finance, Ether Fi, and also audited Layer 1 blockchains including NEM, Waves, Symbol, BitClout, and others (Security Audit reports by Decurity).

Achievements

We've scored 2nd places in both some of the hardest smart contract security audit competitions – <u>Paradigm CTF 2022</u> and <u>OpenZeppelin CTF</u> 2024.

Authorship

- Fuzzy differ for the DeFi codebases <u>contract-diff.xyz</u>
- Semgrep SAST rulepack for Solidity vulnerability scanning: <u>Semgrep rules</u>
 for smart contracts based on DeFi exploits
- The function signature bruteforcer: <u>GitHub Decurity/abi-decompiler:</u>
 <u>Ethereum (EVM) smart contracts reverse engineering helper utility</u>

Developing

We are developers of <u>DeFiMon</u> — real-time on-chain hack detection product. We post some of the alerts on X: <u>Decurity (@DecurityHQ) / X</u>.

Publishing

We have a few research write-ups in our blog https://blog.decurity.io/ including the \$5M critical bug disclosure and the AMM, CDP, and LSD auditing checklists.



Trusted by

















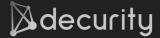
zkBob





Clearpool





Scope of work

This document contains a security audit service proposal made by Decurity for Asterizm (hereinafter referred to as the "Customer").

Company info:

Name: Decentralized Security LLC-FZ (Decurity).

Website: https://decurity.io/.

Email: <u>sales@decurity.io</u>.

Tasks solved during the work are:

- Review the protocol design and the usage of 3rd party dependencies,
- Audit the implementation of the contracts,
- Develop recommendations and suggestions to improve the security of the contracts.

The audit scope includes the contracts in the following repository:

EVM: https://github.com/Asterizm-Protocol/asterizm-contracts-evm

SOLANA: https://github.com/Asterizm-Protocol/asterizm-contracts-sol

TON: https://github.com/Asterizm-Protocol/asterizm-contracts-ton



Terms of work

Option 1

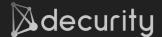
Stage	Workload/Time	Price	Result
Security Audit EVM + TVM	15 business days A team of 4 senior researchers	60 000 USD 35 000 USD	Fixed vulnerabilities Improved security
Security Audit SOL	15 business days A team of 4 senior researchers	60 000 USD 40 000 USD	Improved securityOfficial Security Audit Report
Mitigation verification of the previously identified issues	5 business days	0 USD	 Fixes validation Updated Security Audit Report

The updates are to be provided weekly in an informal way via online chat or email. The final report will contain an executive summary and detailed description of all the discovered weaknesses along with remediation recommendations.

Payment options: USDT/USDC (ERC/TRC), wire transfer.

This offer is valid until Oct 18, 2024.

The closest preferred slots for booking are starting on Oct 14, 2024 and Oct 21, 2024.



Option 2

Stage	Workload/Time	Price		Result
Security Audit EVM + TVM + SOL	30 business days A team of 8 senior researchers	75-000-USD 60 000 USD	•	Fixed vulnerabilities Improved security Reduced risk of hacks Official Security Audit Report
Re-testing	5 business days	0 USD	•	Remediation validation Updated Security Audit Report
		7 5 000 USD 60 000 USD		

The updates are to be provided weekly in an informal way via online chat or email. The final report will contain an executive summary and detailed description of all the discovered weaknesses along with remediation recommendations.

Payment options: USDT/USDC (ERC/TRC), Wire transfer.

This offer is valid until Oct 18, 2024.

The closest preferred slots for booking are starting on Oct 14, 2024 and Oct 21, 2024.



Description of work

The audit will follow well-known application security testing methodologies and implement checks specific to DeFi and smart contract security.

The diagram below shows the key stages of the security audit:

Protocol Analysis

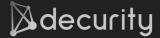
We analyze the documentation, dependencies, tests

Vulnerability Assessment

We do code review, fuzzing, economics analysis

Reporting & Re-testing

We develop remediation plan and check its execution



The high-level steps are as follows:

1. Protocol analysis

- 1.1. Reconnaissance of the contracts, 3rd party libraries, external dependencies, and interfaces in the scope,
- 1.2. Contract diffing and identification of the code reuse,
- 1.3. Documentation and intended business logic analysis,
- 1.4. Study of the previous audits if available,
- 1.5. Contract tests analysis if available.

2. Vulnerability assessment

- 2.1. Automated static analysis for the low-hanging fruits,
- 2.2. Manual deep analysis of code-specific weaknesses such as insufficient access control or susceptibility to reentrancy,
- 2.3. Manual deep analysis of DeFi-specific weaknesses such as susceptibility to front-running or flash loan manipulations,
- 2.4. Setting up the fuzzing invariants if applicable, running the fuzzing tests, and verifying the results.

3. Exploitation

- 3.1. Development of potential attack vectors for the identified weaknesses,
- 3.2. Development of test scripts for proof of concept attacks on the forks of blockchain.

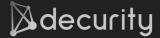
4. Reporting

- 4.1. Risk analysis of the validated weaknesses and vulnerabilities,
- 4.2. Development of recommendations relevant to the codebase and the protocol's limitations,
- 4.3. Writing the executive summary and detailed description of the findings.

5. Finalization

- 5.1. Optional retesting after appropriate patches are implemented
- 5.2. Updating the status of vulnerabilities in the report.

Apart from the report, if requested, we can provide audit artifacts such as developed unit tests, the output of the automated analysis and fuzzing tools, the breakdown of the contract methods and attributes, etc.



Legal

The company's legal entities are "Continuous Technologies Global Inc." in the USA and "Decentralized Security LLC-FZ" in the UAE.

Social

Our website and research blog:

- https://decurity.io/
- https://blog.decurity.io/









