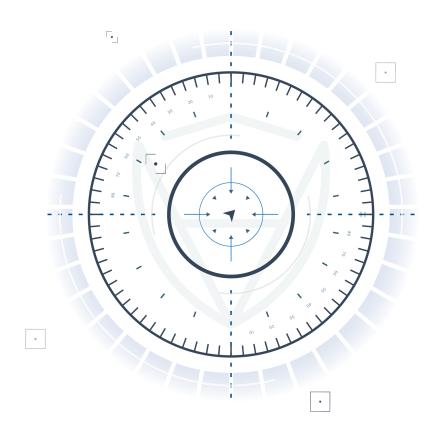


GFC-NFT-LP Protocol

Skynet Scanning Report

May 6th, 2021





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Source-code Score | 89

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About CertiK



Summary

This report is based on the results from CertiK Skynet Scanning, a proprietary security service that leverages automated scanning technologies to check smart contracts against a wide range of known vulnerabilities. Clients could reference the content to reason about the security score calculations. Automated static analysis can cover a wide range of known security issues and vulnerabilities, yet a full security assessment by security experts is always recommended to cover potential security concerns at business levels.

Scope of Works

The nature of CertiK Skynet is to provide real-time security intelligence, and scanning based on static analysis tool sets is one of the 6 Security Primitives. In summary:

- 1. Smart contracts run against CertiK's in-house tool chains (together with open source libraries for cross-checking purposes);
- 2. Manual efforts involved in reviewing the scanning outputs and filter out false alarms. We map scanning results into SWCs for better categorizing and we encourage the development team of the projects to visit the website and follow the recommendations: https://swc-registry.certik.foundation/;
- 3. Manual efforts on a high level walkthrough of code logics to better understand the project and its intentions that may benefit a future full security assessment.



Overview

Below is the very basic manual understanding of the contracts covered by the Skynet Scanning technologies, and none of the contents matter to the final outputs of the software we use. Please refer to the full assessment (if any) for the complete understanding or the walkthroughs of the smart contracts in scope.

LpPool

The contract LpPool takes three tokens, 1p, gfv and nft, where 1p and gfv are ERC20 tokens and nft is an ERC721 token. The pool can receive 1p and nft and let users take part in rounds of awards.



Scanning Results

Primitive Scores

Source-code Score | 89

• LpPool | 89

Smart Contracts

LpPool

Source-code Primitive Results

In summary, 5 issues were found out of 33 checks for **LpPool**.

SWC-107	-5 pts
Title	Reentrancy
Contract	LpPool
Location	Line#693-697, 704-710

<u>SWC-115</u>	-3 pts
Title	Authorization through `tx.origin`
Contract	LpPool
Location	Line#13

SWC-CTK-67	-1 pts
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Title	Weak Randomness
Contract	LpPool
Location	Line#800

SWC-CTK-44	-1 pts
Title	Uninitialized Local Variables
Contract	LpPool
Location	Line#771, 785

SWC-120	-1 pts
Title	Block Timestamps
Contract	LpPool
Location	Line#667, 669, 787



Disclaimer

Skynet Scanning could be leveraged as an automated toolset, however, it cannot replace a formal full security assessment, the toolset is best used synergistically alongside a full formal security audit. Security experts are extremely important in analyzing complex business logic and unknown vulnerabilities specific to each organization. QuickScan is a proprietary CertiK service, offered exclusively to existing and potential clients.

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About CertiK

Founded in 2017 by leading academics in the field of Computer Science from both Yale and Columbia University, CertiK is a leading blockchain security company that serves to verify the security and correctness of smart contracts and blockchain-based protocols. Through the utilization of our world-class technical expertise, alongside our proprietary, innovative tech, we're able to support the success of our clients with best-in-class security, all whilst realizing our overarching vision; provable trust for all throughout all facets of blockchain.

