



Information Technology
NETWORK



SMART CONTRACT SECURITY AUDIT OF **LUNA MOON**

Smart Contract Audits | Solidity Analysis | Solidity Development | KYC | Project Evaluation

SUMMARY



Auditing Firm	ITNetwork
Client Firm	LMOON
Language	Solidity
Mandatory Audit Check	Static, Software, Auto Intelligent & Manual Analysis
Final Report	Date August 16, 2022

Audit Summary

ITNetwork team has performed a line-by-line manual analysis and automated review of the smart contracts. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

Luna Moon's smart contract source code has LOW RISK SEVERITY

Luna Moon has PASSED the smart contract audit

Luna Moon uses mint to generate governance tokens. The function is Owner.

For the detailed understanding of risk severity, source code vulnerability, and functional test, kindly refer to the audit. Please note, only a number of Luna Moon contracts from their repository are audited, the contracts make external calls and import various code packages to work effectively, ITNetwork does not provide explicit guarantee on the safety and security of these calls/packages.

Verify the authenticity of this report on ITNetwork's GitHub:

<https://github.com/itnetworkk>

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About ITNetwork

PROJECT OVERVIEW



ITNetwork was consulted by Luna Moon to conduct the smart contract security audit of their solidity source codes

About Luna Moon

Luna Moon is a free-to-play, play-and-earn MMO strategy game. Welcome to the arena! Defeat your battle deck in fast-paced real-time matches! A time and multiplayer game featuring your favorite characters.

The Luna Moon team comprises experienced \$LMOON developers, and seasoned blockchain product and project leads.

PROJECT	Luna Moon
Blockchain	Binance Smart Chain
Language	Solidity
Contracts	0x69660C713C6FCE07f29B538121dC3B17A7455b39
Website	https://www.lunamoon.tech/
Telegram	https://t.me/lunamoontoken
Twitter	https://twitter.com/cryptogemsx1000
Telegram Turkey	https://t.me/lunamoonturkiye

PROJECT LOGO



Solidity Source Codes Under Scope

- v MasterChef.sol
- v LMOONToken.sol
- v LMOONVault.sol
- v PancakeFactory.sol
- v PancakePair.sol
- v PancakeRouter.sol
- v PancakeLibrary.sol
- v SmartChefFactory.sol
- v SmartChefInitializable.sol

SHA-1 Hash

**SHA-1 Hash Solidity source codes are audited at hash
#f7c2bef01d6fcfd87103b0f0cdf4241bb8d0789f**

AUDIT SCOPE & METHODOLOGY



The scope of this report is to audit the smart contract source codes of LMOON. ITNetwork has scanned the contract codes and reviewed the project for common vulnerabilities, exploits, hacks, and backdoors. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

Category

Smart Contract Vulnerabilities	v Re-entrancy
	v Unhandled Exceptions
	v Transaction Order Dependency
	v Integer Overflow
	v Unrestricted Action
	v Incorrect Inheritance Order
	v Typographical Errors
Source Code Review	v Requirement Violation
	v Ownership Takeover
	v Gas Limit and Loops
	v Deployment Consistency
	v Repository Consistency
	v Data Consistency
Functional Assessment	v Token Supply Manipulation
	v Access Control and Authorization
	v Operations Trail and Event Generation
	v Assets Manipulation
	v Liquidity Access

ITNETWORK'S ECHELON AUDIT STANDARD



The aim of ITNetwork's "Echelon" standard is to analyze the smart contract and identify the vulnerabilities and the hacks in the smart contract. Mentioned are the steps used by ECHELON-1 to assess the smart contract:

1. Solidity smart contract source code reviewal:

- v Review of the specifications, sources, and instructions provided to ITNetwork to make sure we understand the size, scope, and functionality of the smart contract.
- v Manual review of code, which is the process of reading source code line-byline to identify potential vulnerabilities.

2. Static, Manual, and Software analysis:

- v Test coverage analysis, which is the process of determining whether the test cases are covering the code and how much code is exercised when we run those test cases.
- v Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.

3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.

4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts

Automated 3P frameworks used to assess the smart contract vulnerabilities

- v Slither
- v Consensys MythX, Mythril
- v SWC Registry v Solidity Coverage
- v Open Zeppelin Code Analyzer
- v Solidity Code Compiler

ITNETWORK'S RISK CLASSIFICATION



Smart contracts are generally designed to manipulate and hold funds. This makes them very tempting attack targets, as a successful attack may allow the attacker to directly steal funds from the contract. Below are the typical risk levels of a smart contract:

Vulnerable: A contract is vulnerable if it has been flagged by a static analysis tool as such. As we will see later, this means that some contracts may be vulnerable because of a false-positive.

Exploitable: A contract is exploitable if it is vulnerable and the vulnerability could be exploited by an external attacker. For example, if the "vulnerability" flagged by a tool is in a function which requires to own the contract, it would be vulnerable but not exploitable.

Exploited: A contract is exploited if it received a transaction on the main network which triggered one of its vulnerabilities. Therefore, a contract can be vulnerable or even exploitable without having been exploited.

Risk severity	Meaning
! Critical	This level vulnerabilities could be exploited easily, and can lead to asset loss, data loss, asset manipulation, or data manipulation. They should be fixed right away.
! High	This level vulnerabilities are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to critical risk severity
! Medium	This level vulnerabilities are should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution.
! Low	This level vulnerabilities can be ignored. They are code style violations, and informational statements in the code. They may not affect the smart contract execution

SMART CONTRACT – STATIC ANALYSIS



Symbol

Meaning



Function can be modified



Function is payable



Function is locked



Function can be accessed



Important functionality

```
gratorChef;o* | Interface | 111
L | migrate | External | 1 | NO !
11111
"*""""-8 t- erCh-ef;o* | Implementation | Ownable | 11"
L | <Constructor> | Public | 1 | NO !
L | updateMultiplier | Public | 1 | onlyOwner |
L | updateRewardPerBlock | External | 1 | onlyOwner | poolLength |
External | 1 | NO !
"L | ;id<j | Public | 1 | onlyOwner |"
L | ill | Public | 1 | onlyOwner |
L | updateStakingPool | Internal | 1 | 1 | setMigrator | Public | 1 |
onlyOwner | migrate | Public | 1 | NO !
L | migrateControl | Public | 1 | onlyOwner
L | getMultiplier | Public | 1 | NO !
L | pendingCake | External | 1 | NO !
L | massUpdatePools | Public | 1 | NO !
L | updatePool | Public | 1 | NO !
L | deposit | Public | 1 | NO !
L | withdraw | Public | 1 | NO !
L | enterStaking | Public | 1 | NO !
L | leaveStaking | Public | 1 | NO !
L | emergencyWithdraw | Public | 1 | NO ! L | safeCakeTransfer | Internal
| 1 | 1 | setDevAddress | Public | 1 | NO !
L | setDevShare | Public | 1 | NO !
L | setShareTo | Public | 1 | NO !
111 |
**=tak-e]okeQ** | Implementation | BEP20 | 11
L | 'minrl | Public | 1 | onlyOwner |
L | safeCakeTransfer | Public | 1 | onlyOwner
```

Validated by <https://www.it-network.tech>



```

burn | Public | 4f | INO |
del | tes | Exterl\ill | | INO |
del | te | Exterl\ill | | • INO f | del | teBySig | Exterl\ill | | • INO | (letCurrentVotes |
Exterl\ill | | (NO | (JetPrIorvot es | Exterl\ill | | (NO | |
_del | te | Interl\ill il • | |
_moveoe | tes | Interl\ill.a | il |
_write<:M-ckpoint | Interl\ill Q | •
saf e32 | Interl\ill il | |
| (letCl\ainld | Interl\ill il | |
|||||
"-cakc e"" Y' • • IP.. | Implementat Ion | Ooll\ilble, Pausable |||"
| <Constructor> | Public | • INO |
"depos It | Exterl\ill | 4f | ""4'tenNotPaused notContract wlt.l'MirawAll | Exterl\ill | | •
| notContract |"
"I\arvest | Exterl\ill f | 8 | notContract ""4'tenNotPaused setActnin | Exterl\ill | | • |
onlyCM'ler |"
set Treasury | Exterl\ill | | • | onlyCM'ler |
set Perf ormanceFee | Exterl\ill | | 8 | onlyAdt11Jl setcallFee | Exterl\ill | | • |
onlyAd111Jl | setWlt.r.drawf ee | Exterl\ill f | 8 | onlyAdt11Jl |
setWitl'MirawFeePeriod | Exterl'ilil | | • | onlyAdt11Jl nc-Ml.thdraw; | Exterl\ill | | 8 |
onlyAdt11Jl |
ineaseTokensGetSt uck | Exterl'ilil | | • | onlyAdt11Jl
"I Exterl\ill | | 8 | O11lyAd1'1Jl ""4'tenNotPaused |"
".!!'.IJ lli ei | Exterl\ill ! | 4f | onlyAdt11Jl ""4'tenPaused | c.alculat eHarvestcakeRewards |
Exterl\ill | | (NO |"
c.alculat eTotalPel'MiikeRewards | External | INO | (JetPricePerFullSl\are | Exterrlal | |
INO |
wlt.l'Miraw | Public | | • | l'IotContract | avallable | Public f | | INO f |
balanceOf | Public f | | INO f |
_earn | Interl\ill il 8 | |
_iscont ract | Interl\ill il | |
|||||
-PaftcakeFactorr- | | Implementat on | IPancakeFactory |||
|| <Constructor> | Public | | • INO | | | | | |
| allPairsleth | Exterl\ill f | | INO f || createPaIr | Exterl\ill | | • INO ||
| set.FeeTo | Exterl\ill ! | • INO | |
| 1e:tlLhca.F | Exterl\ill ! | 4f | INO !
| (JetExcl\α*Fee | Exterl\ill | | INO || setFeeSl\are | Exterl\ill | | • INO | |
| set.FeeActnIn | Exterl\ill | | • INO | |
|||||
"-PaftcakePai,._ | Implementat ion | IPanc.akePa Ir , PancakeERC20 |||"
| (letReserves | Public | | (NO f |
_saf eTransf er | Private lii | 4il | |
<Constructor> | Public | | • INO |

```



```
|  ↳ | initialize | External||NO | | | | | |
|  ↳ | _update | Private|  | |
|  ↳ | _mintFee | Private||  |
|  ↳ | mint | External|| lock |
|  ↳ | burn | External|| lock |
|  ↳ | swap | External|| lock |
|  ↳ | skim | External|| lock |
|  ↳ | sync | External|| lock |  |||||
| **PancakeRouter** | Implementation | IPancakeRouter02 |||
|  ↳ | <Constructor> | Public |  |NO |
|  ↳ | <Receive Ether> | External | |NO |
|  ↳ | _addLiquidity | Internal |  | |
|  ↳ | addLiquidity | External | | ensure |
|  ↳ | addLiquidityETH | External |  | ensure |
|  ↳ | removeLiquidity | Public |  | ensure |
|  ↳ | removeLiquidityETH | Public | | ensure |
|  ↳ | removeLiquidityWithPermit | External | |NO |
|  ↳ | removeLiquidityETHWithPermit | External | |NO |
|  ↳ | removeLiquidityETHSupportingFeeOnTransferTokens | Public |  | ensure |
|  ↳ | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | |NO |  | ↳ |
| _swap | Internal | | |
|  ↳ | swapExactTokensForTokens | External |  | ensure | | ↳ | swapTokensForExactTokens |
External | | ensure |  | ↳ | swapExactETHForTokens | External | | ensure |
|  ↳ | swapTokensForExactETH | External | | ensure | | ↳ | swapExactTokensForETH | External | |
ensure | | ↳ | swapETHForExactTokens | External | | ensure |
|  ↳ | _swapSupportingFeeOnTransferTokens | Internal |  | |
|  ↳ | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | ensure |  | ↳ |
swapExactETHForTokensSupportingFeeOnTransferTokens | External |  | ensure |
|  ↳ | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | ensure | | | | | |
|  ↳ | quote | Public| |NO |
|  ↳ | getAmountOut | Public| |NO |
|  ↳ | getAmountIn | Public| |NO |
|  ↳ | getAmountsOut | Public| |NO |
|  ↳ | getAmountsIn | Public| |NO |  |||||
| **PancakeLibrary** | Library |  |||
|  ↳ | sortTokens | Internal||  |
|  ↳ | pairFor | Internal | | |
|  ↳ | getReserves | Internal||  |
|  ↳ | quote | Internal||  |
|  ↳ | getAmountOut | Internal||  |
|  ↳ | getAmountIn | Internal||  |
|  ↳ | getAmountsOut | Internal | |  |
|  ↳ | getAmountsIn | Internal |  | |||||
| **SmartChefFactory** | Implementation | Ownable |||
|  ↳ | <Constructor> | Public | |NO |
```



```
|  └ | allPoolsLength | External | | NO | | | | | | |
|  └ | deployPool    | External | | onlyOwner |
|||||
| **SmartChefInitializable** | Implementation | Ownable, ReentrancyGuard |||
|  └ | <Constructor> | Public | | NO |
|  └ | initialize    | External | | NO |
|  └ | deposit       | External | | nonReentrant | |  └ | withdraw | External | | nonReentrant |
|  └ | emergencyWithdraw | External | | nonReentrant |
|  └ | emergencyRewardWithdraw | External | | onlyOwner |
|  └ | recoverWrongTokens | External | | onlyOwner |
|  └ | stopReward       | External | | onlyOwner |
|  └ | updatePoolLimitPerUser | External | | onlyOwner |
|  └ | updateRewardPerBlock | External | | onlyOwner |
|  └ | updateStartAndEndBlocks | External | | onlyOwner |
|  └ | pendingReward    | External | | NO |
|  └ | _updatePool      | Internal | | |
|  └ | _getMultiplier  | Internal | | |
```

SMART CONTRACT — SOFTWARE ANALYSIS



Function Signatures

26465826 => setCallFee(uint256)
32749461 => getReserves(address,address,address)
74496190 => setMigrator(IMigratorChef)
ef171420 => migrate(IBE20)
5ffe6146 => updateMultiplier(uint256)
01f8a976 => updateRewardPerBlock(uint256)
081e3eda => poolLength()
0812e2c5 => add(uint256,IBE20,bool)
64482f79 => set(uint256,uint256,bool)
9b9c4477 => updateStakingPool()
454b0608 => migrate(uint256)
95f86d80 => migrateControl(address)
8dbb1e3a => getMultiplier(uint256,uint256)
1175a1dd => pendingCake(uint256,address)
630b5ba1 => massUpdatePools()
51eb05a6 => updatePool(uint256)
e2bbb158 => deposit(uint256,uint256)
441a3e70 => withdraw(uint256,uint256)
41441d3b => enterStaking(uint256)
1058d281 => leaveStaking(uint256)
5312ea8e => emergencyWithdraw(uint256)
a2e6ddcc => safeCakeTransfer(address,uint256)
d0d41fe1 => setDevAddress(address)
03c0fa01 => setDevShare(uint256)
bf1bbdae => setShareTo(address)
40c10f19 => mint(address,uint256)
42966c68 => burn(uint256)
587cde1e => delegates(address)
5c19a95c => delegate(address)
c3cda5202=>delegateBySig(address,uint256,uint256,uint8,bytes32,bytes32)
b4b5ea57 => getCurrentVotes(address)
782d6fe1 => getPriorVotes(address,uint256)
a28a42b3 => _delegate(address,address)
955f9fd8 => _moveDelegates(address,address,uint256)
ee59e77f => _writeCheckpoint(address,uint32,uint256,uint256)
869d1f83 => safe32(uint256,string)
3408e470 => getChainId()
b6b55f25 => deposit(uint256)
853828b6 => withdrawAll()
4641257d => harvest()
704b6c02 => setAdmin(address)
f0f44260 => setTreasury(address)
70897b23 => setPerformanceFee(uint256)
b6ac642a => setWithdrawFee(uint256)
1efac1b8 => setWithdrawFeePeriod(uint256)



```
db2e21bc => emergencyWithdraw()
def68a9c => inCaseTokensGetStuck(address)
8456cb59 => pause()
3f4ba83a => unpause()
9d72596b => calculateHarvestCakeRewards()
58ebceb6 => calculateTotalPendingCakeRewards()
77c7b8fc => getPricePerFullShare()
2e1a7d4d => withdraw(uint256)
48a0d754 => available()
722713f7 => balanceOf() 6f48813d => _earn()
7d48441f => _isContract(address)
574f2ba3 => allPairsLength()
c9c65396 => createPair(address,address)
f46901ed => setFeeTo(address)
692eb56f => setExchangeFee(address,uint256)
5f4153f7 => getExchangeFee(address)
b3cba4a2 => setFeeShare(uint256)
6eb2d031 => setFeeAdmin(address)
0902flac => getReserves()
26e6cdde => _safeTransfer(address,address,uint256)
485cc955 => initialize(address,address)
7dc0alfa => _update(uint256,uint256,uint112,uint112)
f65d5f86 => _mintFee(uint112,uint112)
6a627842 => mint(address)
89afcb44 => burn(address)
022c0d9f => swap(uint256,uint256,address,bytes)
bc25cf77 => skim(address) fff6cae9 => sync()
6d7746bc => _addLiquidity(address,address,uint256,uint256,uint256,uint256)
e8e33700 => addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256) f305d719 =>
addLiquidityETH(address,uint256,uint256,uint256,address,uint256)
baa2abde => removeLiquidity(address,address,uint256,uint256,uint256,address,uint256) 02751cec =>
removeLiquidityETH(address,uint256,uint256,uint256,address,uint256)
2195995c=>removeLiquidityWithPermit(address,address,uint256,uint256,uint256,address,uint256,bool,uint8,bytes32,bytes32)
ded9382a=>removeLiquidityETHWithPermit(address,uint256,uint256,uint256,address,uint256,bool,uint8,bytes32,bytes32)
af2979eb=removeLiquidityETHSupportingFeeOnTransferTokens(address,uint256,uint256,uint256,address,uint256)
5b0d5984 =>
removeLiquidityETHWithPermitSupportingFeeOnTransferTokens(address,uint256,uint256,uint256,address,uint256,bool,uint8,bytes32,bytes32)
f5901d4d => _swap(uint256[],address[],address)
38ed1739 => swapExactTokensForTokens(uint256,uint256,address[],address,uint256)
8803dbec => swapTokensForExactTokens(uint256,uint256,address[],address,uint256)
7ff36ab5 => swapExactETHForTokens(uint256,address[],address,uint256)
4a25d94a => swapTokensForExactETH(uint256,uint256,address[],address,uint256)
```



```
18cbafe5 => swapExactTokensForETH(uint256,uint256,address[],address,uint256)
fb3bdb41 => swapETHForExactTokens(uint256,address[],address,uint256)
d1c474e3 => _swapSupportingFeeOnTransferTokens(address[],address)
5c11d795swapExactTokensForTokensSupportingFeeOnTransferTokens(uint256,uint256,address[],address,
uint256)
b6f9de95=>swapExactETHForTokensSupportingFeeOnTransferTokens(uint256,address[],address,uint256)
791ac947=>swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],address,
uint256)
ad615dec => quote(uint256,uint256,uint256) 054d50d4 => getAmountOut(uint256,uint256,uint256)
85f8c259 => getAmountIn(uint256,uint256,uint256)
d06ca61f => getAmountsOut(uint256,address[])
1f00ca74 => getAmountsIn(uint256,address[])
544caa56 => sortTokens(address,address)
6d91c0e2 => pairFor(address,address,address)
cef496b1 => getAmountOut(address,address,uint256,uint256,uint256)
f1dfeabe => getAmountIn(address,address,uint256,uint256,uint256)
bb7b9c76 => getAmountsOut(address,uint256,address[])
192128b2 => getAmountsIn(address,uint256,address[])
efde4e64 => allPoolsLength()
eb8bfb05 => deployPool(IBE20,IBE20,uint256,uint256,uint256,uint256,address)
48cf8750 => initialize(IBE20,IBE20,uint256,uint256,uint256,uint256,address)
3279beab => emergencyRewardWithdraw(uint256)
3f138d4b => recoverWrongTokens(address,uint256)
80dc0672 => stopReward()
a0b40905 => updatePoolLimitPerUser(bool,uint256)
9513997f => updateStartAndEndBlocks(uint256,uint256)
f40f0f52 => pendingReward(address)
2061e1e5 => _updatePool()
8e356d7a => _getMultiplier(uint256,uint256)
```

SMART CONTRACT – SWC ATTACKS



<u>SWC ID</u>	<u>Description</u>	<u>Verdict</u>
SWC - 101	Integer Overflow and Underflow	Passed
SWC - 102	Outdated Compiler Version	Passed
SWC - 103	Floating Pragma	Passed
SWC - 104	Unchecked Call Return Value	Passed
SWC - 105	Unprotected Ether Withdrawal	Passed
SWC - 106	Unprotected SELFDESTRUCT Instruction	Passed
SWC - 107	Re-entrancy	Passed
SWC - 108	State Variable Default Visibility	Passed
SWC - 109	Uninitialized Storage Pointer	Passed
SWC - 110	Assert Violation	Passed
SWC - 111	Use of Deprecated Solidity Functions	Passed
SWC - 112	Delegate Call to Untrusted Callee	Passed
SWC - 113	DoS with Failed Call	Passed
SWC - 114	Transaction Order Dependence	Passed
SWC - 115	Authorization through tx.origin	Passed
SWC - 116	Block values as a proxy for time	Passed
SWC - 117	Signature Malleability	Passed
SWC - 118	Incorrect Constructor Name	Passed

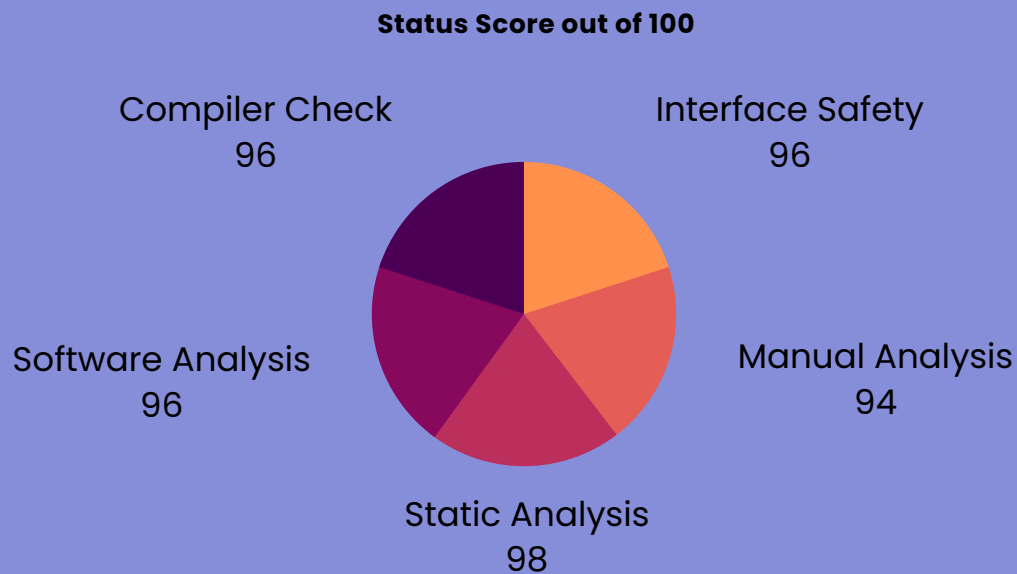
SMART CONTRACT – SWC ATTACKS



<u>SWC ID</u>	<u>Description</u>	<u>Verdict</u>
SWC - 119	Shadowing State Variables	Passed
SWC - 120	Weak Sources of Randomness from Chain Attributes	Passed
SWC - 121	Missing Protection against Signature Replay Attacks	Passed
SWC - 122	Lack of Proper Signature Verification	Passed
SWC - 123	Requirement Violation	Passed
SWC - 124	Write to Arbitrary Storage Location	Passed
SWC - 125	Incorrect Inheritance Order	Passed
SWC - 126	Insufficient Gas Griefing	Passed
SWC - 127	Arbitrary Jump with Function Type Variable	Passed
SWC - 128	DoS With Block Gas Limit	Passed
SWC - 129	Typographical Error	Passed
SWC - 130	Right-To-Left-Override control character (U+202E)	Passed
SWC - 131	Presence of unused variables	Passed
SWC - 132	Unexpected Ether balance	Passed
SWC - 133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC - 134	Message call with hardcoded gas amount	Passed
SWC - 135	Code With No Effects (Irrelevant/Dead Code)	Passed
SWC - 136	Unencrypted Private Data On-Chain	Passed

SMART CONTRACT – RISK STATUS & RADAR CHART

<u>Risk Severity</u>	<u>Status</u>
! Critical	None critical severity issues identified
! High	None high severity issues identified
! Medium	None medium severity issues identified
! Low	2 low severity issues identified
Verified	54 functions and instances verified and checked
Safety Score	98 out of 100



AUDITOR'S VERDICT



ITNetwork team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks.

\$LMOON's smart contract source code has **LOW RISK SEVERITY**.

\$LMOON has **PASSED** the smart contract audit.

Note for stakeholders

- i** Be aware that active smart contract owner privileges constitute an elevated impact on smart contract's safety and security.
- i** Make sure that the project team's KYC/identity is verified by an independent firm, e.g., ITNetwork.

IMPORTANT DISCLAIMER



ITNetwork provides contract auditing and project verification services for blockchain projects. The purpose of the audit is to analyse the on-chain smart contract source code, and to provide basic overview of the project. This report should not be transmitted, disclosed, referred to, or relied upon by any person for any purposes without ITNetwork's prior written consent.

ITNetwork provides the easy-to-understand assessment of the project, and the smart contract (otherwise known as the source code). The audit makes no statements or warranties on the security of the code. It also cannot be considered as an enough assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have used all the data at our disposal to provide the transparent analysis, it is important to note that you should not rely on this report only — we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts. Be aware that smart contracts deployed on a blockchain aren't resistant from external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact to smart contract's safety and security. Therefore, ITNetwork does not guarantee the explicit security of the audited smart contract.

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

This report should not be considered as an endorsement or disapproval of any project or team. The information provided on this report does not constitute investment advice, financial advice, trading advice, or any other sort of advice and you should not treat any of the report's content as such. Do conduct your own due diligence and consult your financial advisor before making any investment decisions.

ABOUT ITNETWORK



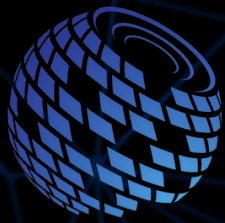
ITNetwork provides intelligent blockchain solutions. ITNetwork is developing an ecosystem that is seamless and responsive. Some of our services: Blockchain Security, Token Launchpad, NFT Marketplace, etc. ITNetwork's mission is to interconnect multiple services like Blockchain Security, DeFi, Gaming, and Marketplace under one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and easy-to-use.

ITNetwork is built by a decentralized team of UI experts, contributors, engineers, and enthusiasts from all over the world. Our team currently consists of 6+ core team members, and 10+ casual contributors. ITNetwork provides manual, static, and automatic smart contract analysis, to ensure that project is checked against known attacks and potential vulnerabilities.

To learn more, visit <https://it-network.tech>

To view our audit portfolio, visit <https://github.com/itnetworkk>

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