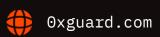
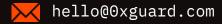


Smart contracts security assessment

Final report
Tariff: Standard

Sh!tcoin Miner - Polygon Land





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| September 2023

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Introduction

The report has been prepared for **Sh!tcoin Miner - Polygon Land**.

The audited contract is a Ponzi staking with rewards in the same coin with a progressive ROI and capped total yield without explicitly defined source of such rewards.

5% of deposited coins goes to the owner's addresses, 2% (default value) - to the referrer.

The SHA-1 hashes of audited files are:

scm-final.sol 2d895ca9c057a7565f63f9d7a7e4a04fdd5afa89.

Update. The updated contract has SHA-1 of 29662c1d78649a718cf6b0c9b49d53bc9dad8fb6 (scm_v3_2.sol) and was deployed to the <u>0xF2E46FB5Eb359A4e0029642fFF4C5040b440E027</u> address in the Polygon Mainnet with an ERC1967 upgradeable proxy at 0xd4E40A4b1F9F46144209FF0496209858D30fc820. The contract code has not been verified. We couldn't ensure its matching with the audited version.

Name	Sh!tcoin Miner - Polygon Land	
Audit date	2023-09-18 - 2023-09-21	
Language	Solidity	
Platform	Polygon Network	

Contracts checked

Name	Address
SCM	0xF2E46FB5Eb359A4e0029642fFF4C5040b440E027

Procedure

We perform our audit according to the following procedure:

Automated analysis

- Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- Manual verification (reject or confirm) all the issues found by the tools

Manual audit

- Manually analyze smart contracts for security vulnerabilities
- Smart contracts' logic check

Known vulnerabilities checked

Title	Check result
Unencrypted Private Data On-Chain	passed
Code With No Effects	passed
Message call with hardcoded gas amount	passed
Typographical Error	passed
DoS With Block Gas Limit	passed
Presence of unused variables	passed
Incorrect Inheritance Order	passed
Requirement Violation	passed
Weak Sources of Randomness from Chain Attributes	passed
Shadowing State Variables	passed



Incorrect Constructor Name passed Block values as a proxy for time passed Authorization through tx.origin passed DoS with Failed Call passed Delegatecall to Untrusted Callee passed Use of Deprecated Solidity Functions passed Assert Violation passed State Variable Default Visibility passed Reentrancy passed Unprotected SELFDESTRUCT Instruction passed Unprotected Ether Withdrawal passed Unchecked Call Return Value passed Floating Pragma passed Outdated Compiler Version passed Integer Overflow and Underflow passed **Function Default Visibility** passed

Classification of issue severity

High severity High severity issues can cause a significant or full loss of funds, change

of contract ownership, major interference with contract logic. Such issues

require immediate attention.

Medium severity Medium severity issues do not pose an immediate risk, but can be

detrimental to the client's reputation if exploited. Medium severity issues may lead to a contract failure and can be fixed by modifying the contract

state or redeployment. Such issues require attention.

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Low severity

Low severity issues do not cause significant destruction to the contract's functionality. Such issues are recommended to be taken into consideration.

Issues

High severity issues

1. Source of rewards (SCM)

Status: Open

The staking offers a positive ROI percent but there's no source of rewards to harden this reward rate. If there will be not enough rewards, the withdraw and compound functions become unusable as token transfer will be reduced to 0.

```
function handleWithdraw(uint256 rewards) private {
if(getBalance() < rewardsValue) {</pre>
  rewardsValue = getBalance();
}
uint256 payout = rewardsValue.sub(fees);
payable(_msgSender()).transfer(payout);
}
```

Medium severity issues

1. Doubtful math (SCM)

Status: Fixed

The calculateSell calculations are different from the getYield estimation. Actual rewards amounts are times several greater than estimated. Without documentation it's impossible to check where the error is, but we suppose it's in the calculateTrade function.

Also, the getUserDailyYieldControl function performs many unnecessary calculations.

Recommendation: Check the math.

Low severity issues

1. Typos (SCM)

Status: Fixed

Typo in 'REFELCTION', 'Mininum'.

2. Inconsistent comment (SCM)

Status: Fixed

There's a comment about constructor in initializable contracts:

```
///@dev no constructor in upgradable contracts. Instead we have initializers
```

In fact, OpenZeppelin's Initializable contract suggest implementing a constructor section with the _disableInitializers function.

Recommendation: Follow the OpenZeppelin's guide.

3. Initialization of the constants (SCM)

Status: Fixed

No need to initialize variables that are constant it its nature:

```
uint256 private _NOT_ENTERED;
uint256 private _ENTERED;
function initialize(address _dev1, address _dev2, address _dev3) public initializer {
  _{NOT}_{ENTERED} = 1;
  ENTERED = 2;
}
```

Recommendation: Use the ReentrancyGuard contract.

○ Conclusion

Sh!tcoin Miner - Polygon Land SCM contract was audited. 1 high, 1 medium, 3 low severity issues were found.

1 medium, 3 low severity issues have been fixed in the update.

The audited contract is designed to be deployed with a proxy, and therefore can be upgraded by the owner.



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