Cyberscope

A TAC Security Company

Audit Report

Utopia Miner

October 2025

Network	BSC
Address	0x61ea85a817344789d836fbc18b9099bb280b383d
Audited by	© cyberscope

Table of Contents

Risk Classification

The criticality of findings in Cyberscope's smart contract audits is determined by evaluating multiple variables. The two primary variables are:

1. **Likelihood of Exploitation**: This considers how easily an attack can be executed, including the economic feasibility for an attacker.
2. **Impact of Exploitation**: This assesses the potential consequences of an attack, particularly in terms of the loss of funds or disruption to the contract's functionality.

Based on these variables, findings are categorized into the following severity levels:

1. **Critical**: Indicates a vulnerability that is both highly likely to be exploited and can result in significant fund loss or severe disruption. Immediate action is required to address these issues.
2. **Medium**: Refers to vulnerabilities that are either less likely to be exploited or would have a moderate impact if exploited. These issues should be addressed in due course to ensure overall contract security.
3. **Minor**: Involves vulnerabilities that are unlikely to be exploited and would have a minor impact. These findings should still be considered for resolution to maintain best practices in security.
4. **Informative**: Points out potential improvements or informational notes that do not pose an immediate risk. Addressing these can enhance the overall quality and robustness of the contract.

Severity	Likelihood / Impact of Exploitation
Critical	Highly Likely / High Impact
Medium	Less Likely / High Impact or Highly Likely/ Lower Impact
Minor / Informative	Unlikely / Low to no Impact

Review

Explorer	https://bscscan.com/address/0x61ea85a817344789d836fbc18b9099bb280b383d

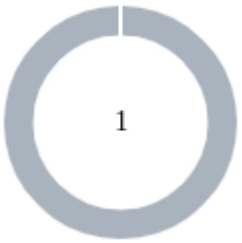
Audit Updates

Initial Audit	06 Nov 2025

Source Files

Filename	SHA256
UtopiaMiner.sol	4f57792b04f9369eae5c35d3ea0db982106eb8717820c358e3a6c20d952c1c4d
interfaces/UtopiaToken.sol	78942fff0feaf8f6901a3408cd09bf66e5c96fd811b0351959b33d03419b0804
interfaces/IUtopiaMiner.sol	27f9b64445e55d4f960cc47f44517dd8bff4387efd206460e2d96527519736bc

Findings Breakdown



Critical	0
Medium	0
Minor / Informative	1

Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	0	0	0	0
Minor / Informative	1	0	0	0

Diagnostics

Critical Medium Minor / Informative

Severity	Code	Description	Status
●	IDI	Immutable Declaration Improvement	Unresolved

IDI - Immutable Declaration Improvement

Criticality	Minor / Informative
Location	UtopiaMiner.sol#L62
Status	Unresolved

Description

The contract declares state variables that their value is initialized once in the constructor and are not modified afterwards. The `immutable` is a special declaration for this kind of state variable that saves gas when it is defined.

```
Shell
developmentAddress
```

Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.

Functions Analysis

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
UtopiaMiner	Implementation	IUtopiaMiner, Ownable, ReentrancyGuard		
		Public	✓	Ownable
		External	Payable	-
	initialize	External	Payable	onlyOwner
	beanRewards	External		-
	calculateBoneSell	Public		-
	calculateBoneBuy	Public		-
	calculateBoneBuySimple	External		-
	getBalance	External		-
	getMyExplorers	External		-
	getMyBones	Public		-
	getBonesSinceLastHatch	Public		-
	getDailyBoneRewards	External		-
	compoundExplorers	External	✓	nonReentrant onlyInitialized whenTradingAllowed
	hireExplorers	External	Payable	nonReentrant onlyInitialized whenTradingAllowed
	collectRewards	External	✓	nonReentrant onlyInitialized whenTradingAllowed

	setTradingState	External	✓	onlyOwner
	setToken	External	✓	onlyOwner
	setMinimumTokenBalance	External	✓	onlyOwner
	_compoundExplorers	Private	✓	
	calculateTrade	Private		
	calculateDevelopmentFee	Private		
	isTradingOpen	Private		
	min	Private		
IDexRouter	Interface			
	factory	External		-
	WETH	External		-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	addLiquidityETH	External	Payable	-
IDexFactory	Interface			
	createPair	External	✓	-
UtopiaToken	Implementation	ERC20, ERC20Burnable, Ownable		
		Public	✓	ERC20 Ownable
		External	Payable	-
	_update	Internal	✓	
	swapBack	Private	✓	lockTheSwap

	swapTokensForEth	Private	✓	
	isExcludedFromFees	External		-
	setSwapTokensAtAmount	External	✓	onlyOwner
	setMinerAddress	External	✓	onlyOwner
	setMarketingAddress	External	✓	onlyOwner
	setExcludedFromFee	External	✓	onlyOwner
	setMinerFee	External	✓	onlyOwner
	setMarketingFee	External	✓	onlyOwner
IUtopiaMiner	Interface			
	initialize	External	Payable	-
	setTradingState	External	✓	-
	setToken	External	✓	-
	setMinimumTokenBalance	External	✓	-
	compoundExplorers	External	✓	-
	hireExplorers	External	Payable	-
	collectRewards	External	✓	-
	beanRewards	External		-
	calculateBoneSell	External		-
	calculateBoneBuy	External		-
	calculateBoneBuySimple	External		-
	getBalance	External		-
	getMyExplorers	External		-
	getMyBones	External		-
	getBonesSinceLastHatch	External		-

	getDailyBoneRewards	External		-

Summary

Utopia contract implements a utility mechanism. This audit investigates security issues, business logic concerns and potential improvements.

Disclaimer

The information provided in this report does not constitute investment, financial or trading advice and you should not treat any of the document's content as such. This report may not be transmitted, disclosed, referred to or relied upon by any person for any purposes nor may copies be delivered to any other person other than the Company without Cyberscope's prior written consent. This report is not nor should be considered an "endorsement" or "disapproval" of any particular project or team. This report is not nor should be regarded as an indication of the economics or value of any "product" or "asset" created by any team or project that contracts Cyberscope to perform a security assessment. This document does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors' business, business model or legal compliance. This report should not be used in any way to make decisions around investment or involvement with any particular project. This report represents an extensive assessment process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk Cyberscope's position is that each company and individual are responsible for their own due diligence and continuous security Cyberscope's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies and in no way claims any guarantee of security or functionality of the technology we agree to analyze. The assessment services provided by Cyberscope are subject to dependencies and are under continuing development. You agree that your access and/or use including but not limited to any services reports and materials will be at your sole risk on an as-is where-is and as-available basis Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives false negatives and other unpredictable results. The services may access and depend upon multiple layers of third parties.

About Cyberscope

Cyberscope is a TAC blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.

A **TAC Security** Company

The Cyberscope team

cyberscope.io