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SonicSnipeBot

AUDIT SECURITY ASSESSMENT

30th Jan 2025



Making Blockchain, Defi And Web3 A Safer Place.





















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INTRODUCTION

Auditing Firm	VITAL BLOCK SECURITY		
Client Firm	SONICSNIPEBOT		
Methodology	Automated Analysis, Manual Code Review		
Language	Move		
Contract Code	sui_staking_contract.move ownership.move		
Source Code Light	Open Source		
Centralization	Active ownership		
Blockchain	Sui Network		
Website	https://sonicsnipebot.com		
Telegram	https://t.me/SonicSnipePortal		
Twitter	https://x.com/sonicSnipeBot		
Bot	https://t.me/SonicSnipeBot		
Doc	https://docs.sonicsnipebot.com		
Prelim Report Date	January 28 th 2025		
Final Report Date	January 30 th 2025		

■ Verify the authenticity of this report on our GitHub Repo: https://www.github.com/vital-block





Document Properties

Client	SONICSNIPEBOT	
Title	Smart Contract Audit Report	
Target	SONICSNIPEBOT	
Version	1.0	
Author	Akhmetshin Marat	
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Approved by	Prince Mitchell	
Classification	Public	

Version Info

Version	Date	Author(s)	Description
1.0	January 28 TH , 2025	C. John	Final Release
1.0-AP	January 30 TH , 2025	C. John	Release Candidate

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In the following, we show the specific pull request and the commit hash value used in this audit.

- <u>Sonicsnipebot · Staking Contract</u> (TNNB4550)
- https://github.com/SonicSnipeBot/SonicStakingSmartContract/blob/master/sui-staking-contract/so-urces/sui-staking-contract.move (ARSD522)

About Vital Block Security

Vital Block Security provides professional, thorough, fast, and easy-to-understand smart contract security audit. We do in-depth and penetrative static, manual, automated, and intelligent analysis of the smart contract. Some of our automated scans include tools like ConsenSys MythX, Mythril, Slither, Surya. We can audit custom smart contracts, DApps, NFTs, etc (including the service of smart contract auditing). We are reachable at Telegram (https://t.me/vitalblock), Twitter (https://t.me/vitalblock), Twitter (https://twitter.com/Vb_Audit), or Email (info@vitalblock.org).

High Critical High Medium

High High Medium

Low Low

High Medium

Low

Likelihood

Table 1.2: Vulnerability Severity Classification

Methodology

To standardize the evaluation, we define the following terminology based on the OWASP Risk Rating Methodology.

- <u>Likelihood</u> represents how likely a particular vulnerability is to be uncovered and exploited in the wild;
- Impact measures the technical loss and business damage of a successful attack;
- · Severity demonstrates the overall criticality of the risk.





SCOPE OF WORK

Vital Block was consulted by **SONICSNIPEBOT** to conduct the smart contract audit of its. Rust (MOVE) source code. The audit scope of work is strictly limited to the mentioned .Move file only:

O.Move.toml

External contracts and/or interfaces dependencies are not checked due to being out of scope.

Verify audited contract's contract address and deployed link below:

Public Contract File	
https://github.com/SonicS	nipeBot/SonicStakingSmartContract/blob/master/sui_staking_contract/Move.toml
Contract Name	Sui_Staking_Contract
	OWNERSHIP.Move
Blockchain	Sui





AUDIT METHODOLOGY

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of Vital Block

Security auditing process and methodology:

CONNECT

The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

AUDIT

- Automated analysis is performed to identify common contract vulnerabilities. We may use the
 following third-party frameworks and dependencies to perform the automated analysis:
 - Remix IDE Developer Tool
 - Open Zeppelin Code Analyzer
 - SWC Vulnerabilities Registry
 - DEX Dependencies, e.g., Pancakeswap, Uniswap
- o Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.
 We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

Centralized Exploits	0	Token Supply Manipulation
	0	Access Control and Authorization
	0	Assets Manipulation
	0	Ownership Control
	0	Liquidity Access
	0	Stop and Pause Trading
	0	Ownable Library Verification





Common Contract Vulnerabilities

- Integer Overflow
- Lack of Arbitrary limits
- Incorrect Inheritance Order
- Typographical Errors
- Requirement Violation
- Gas Optimization
- Coding Style Violations
- Re-entrancy
- Third-Party Dependencies
- Potential Sandwich Attacks
- Irrelevant Codes
- Divide before multiply
- Conformance to Solidity Naming Guides
- Compiler Specific Warnings
- Language Specific Warnings

REPORT

- The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.
- o The client's development team reviews the report and makes amendments to the codes.
- o The auditing team provides the final comprehensive report with open and unresolved issues.

PUBLISH

- o The client may use the audit report internally or disclose it publicly.
- It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.





Table 1.0 The Full Audit Checklist

Category	Checklist Items	
	Constructor Mismatch	
	Ownership Takeover	
	Redundant Fallback Function	
	Overflows & Underflows	
	Reentrancy	
The state of the s	Money-Giving Bug	
	Blackhole	
	Unauthorized Self-Destruct	
	Revert DoS	
Basic Coding Bugs	Unchecked External Call	
	Gasless Send	
	Send Instead Of Transfer	
	Costly Loop	
	(Unsafe) Use Of Untrusted Libraries	
	(Unsafe) Use Of Predictable Variables	
	Transaction Ordering Dependence	
	Deprecated Uses	
Semantic Consistency Checks	Semantic Consistency Checks	
	Business Logics Review	
	Functionality Checks	
	Authentication Management	
	Access Control & Authorization	
	Oracle Security	
Advanced DoFi Corutiny	Digital Asset Escrow	
Advanced DeFi Scrutiny	Kill-Switch Mechanism	
	Operation Trails & Event Generation	
	ERC20 Idiosyncrasies Handling	
	Frontend-Contract Integration	
	Deployment Consistency	
	Holistic Risk Management	
	Avoiding Use of Variadic Byte Array	
	Using Fixed Compiler Version	
Additional Recommendations	Making Visibility Level Explicit	
	Making Type Inference Explicit	
	Adhering To Function Declaration Strictly	
	Following Other Best Practices	





EXECUTIVE SUMMARY

Vital Block Security has performed the automated and manual analysis of the SONICSNIPEBOT Move code. The code was reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical !	Major " 🤴	Medium # 🛑	Minor \$	Unknown %
Open	0	0	0	1	0
Acknowledged	0	0	0	2	1
Resolved	0	0	0	0	0
Noteworty onlyOwner Privileges	Set Taxes and Ratios, Airdrop, Set Protection Settings, Set Reward Properties, Set Reflector Settings, Set Swap Settings, Set Pair and Router				

SONICSNIPEBOT contract Code has achieved the following score: 93.0



- i Please note that smart contracts deployed on blockchains aren't resistant to exploits, vulnerabilities and/or hacks. Blockchain and cryptography assets utilize new and emerging technologies. These technologies present a high level of ongoing risks. For a detailed understanding of risk severity, source code vulnerability, and audit limitations, kindly review the audit report thoroughly.
- i Please note that centralization privileges regardless of their inherited risk status constitute an elevated impact on smart contract safety and security.





RISK CATEGORIES

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
	These risks could be exploited easily and can lead to asset loss, data loss, asset, or
Critical 🥮	data manipulation. They should be fixed right away.
Matan	These risks are hard to exploit but very important to fix, they carry an elevated risk
Major	of smart contract manipulation, which can lead to high-risk severity.
	These risks should be fixed, as they carry an inherent risk of future exploits, and
Medium #	hacks which may or may not impact the smart contract execution. Low-risk re-
	entrancy-related vulnerabilities should be fixed to deterexploits.
	These risks do not pose a considerable risk to the contract or those who interact
Minor 🗭	with it. They are code-style violations and deviations from standard practices. They
	should be highlighted and fixed nonetheless.
	These risks pose uncertain severity to the contract or those who interact with it. They
Unknown 🖗	should be fixed immediately to mitigate the riskuncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.





CENTRALIZED PRIVILEGES

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- Privileged roles can be granted the power to pause()the contract in case of an external attack.
- Privileged roles can use functions like, include(), and exclude() to add or remove wallets from fees,
 swap checks, and transaction limits. This is useful to run a presale and to list on an exchange.

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.

- The client can lower centralization-related risks by implementing below mentioned practices:
- o Privileged role's private key must be carefully secured to avoid any potential hack.
- o Privileged role should be shared by multi-signature (multi-sig) wallets.
- Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.
- Renouncing the contract ownership, and privileged roles.
- Remove functions with elevated centralization risk.
- Understand the project's initial asset distribution. Assets in the liquidity pair should be locked.
 Assets outside the liquidity pair should be locked with a release schedule.





AUDIT SONICSNIPEBOT

ID	Repo	Comment	File	SHM321 Checksum
SSB0	contracts/sui_staking_contra ct.move	Cc512474	.move	788099YIRHVSK853PKTGYHHH67843OKJ FGYYY766l09
SSB1	contracts/sui_staking_contract .move	cC512474	<u>.move</u>	347520JHDB7549H22HRTFRRE45563DES PDHBVHD655
SSB2	contracts/sui_staking_contract .move	cC512474	<u>.move</u>	1988Y73HUGFDINN353840OPUUYTEHH GDTFF9NNDU
SSB3	contracts/sui_staking_contract .move	cC512474	<u>.move</u>	4438648TEOHBF6378309EHROECNEPOEJ DNETE8EYEU3
SSB4	contracts/sui_staking_contract .move	cC512474	<u>.move</u>	66390028765RVNKDBYFTGW553T2KOER EDW7890007
SSB5	sui_staking_contract.move	cC512474	ownership.move	09825539BDYG543DVNKOMIKEBYRRRE4 367DGVR5EUY
SSB6	sui_staking_contract.move	cC512474	ownership.move	8654RJVT3DWI865YK2643YTRFVDJBOBE T8386YF3683G
SSB7	sui_staking_contract.move	cC512474	ownership.move	7763888636TGYGFFTFHBTGDC VSNDO788U59
SSB8	sui_staking_contract.move	cC512474	ownership.move	88530486494YRHFTEICBGEIEGWTWYWU HEJEHEIE33U3
SSB9	sui_token_contract_tests.mov e	cC512474	ownership.move	1209873KHJLKJNFJHGE98763990029774 BCUHHDUU239
SSB10	sui_token_contract_tests.mov e	cC512474	pool.move	23456UGFYUHE98756EFHJHE7654ESDFG HGERTYUJ3897
SSB11	sui_token_contract_tests.mov e	cC512474	pool.move	37889UHBIONEO7TYRDFGVBN5678939IJ WSFVDYUHDCI
SSB12	sui_token_contract_tests.mov e	cC512474	pool.move	678903098TFHJKFCPOIUGFGHJKE9865ER GBEIVBHE8767
SSB13	SonicStakingSmartContract	cC512474	Move.toml	98765SDFGBNFCOI56789UIYHGGHEJDIU YTRDCVBN3459
SSB14	SonicStakingSmartContract	cC512474	Move.toml	3348y9808hgtrusvnmu43100ejfojgf nut8496230hb574he
SSB15	SonicStakingSmartContract	cC512474	Move.toml	9864byf5f379eig28ffre64085jv1613 251guhkdmue87
SSB16	SonicStakingSmartContract	cC512474	Move.toml	7ej2d8jg765tjfiowg538ij74dwftyv64 78ij3gs820
SSB17	SonicStakingSmartContract	cC512474	Move.toml	864fr46de438hdguw903rfdcb246db uhb2917enk



SSB-01 POSSIBLE OVERFLOW

Category	Severity •	Location	Status
Status Mathematical Operations	Minor	sui_staking_contract/Move.toml	Acknowledged

Description

In updateForAddress, the following equation is used inside an unchecked block

```
[addresses]
sui_staking_contract = "0x0"

# Named addresses will be accessible in Move as `@name`. They're also exported:
# for example, `std = "0x1"` is exported by the Standard Library.
# alice = "0xA11CE"
```

Address can **Not** issue more contract staking tokens indefinitely.

Note that as of the date of publishing, the above review reflects the current understanding of known security patterns as they relate to the **SonicsnipeBot** contract.

Recommendation

We recommend either checking for overflow in this case, or ensuring that the **PairsIn** is close enough it will never cause an overflow...





SSB-02 Key Findings

Category	Severity •	Target	Status
Business Logic	Medium	sources/ownership.move	Low

Description

In **updateForOwner**, Relevant Function Snippet

```
public entry fun transfer_ownercap(cap: OwnerCap, to: address, ctx: &mut TxContext) {
    transfer::transfer(cap, to);
    event::emit(OwnerCapTransferredEvent {
        from: sui::tx_context::sender(ctx),
        to,
```

Description

For Ownership efficiency, the **SonicSnipeBot** Team is engineered with the reserve cache mechanism, which necessi-tates the common steps to be followed when operating with the reserve Ownership data in different scenarios, including the tax generation, update, and eventual persistence.

Recommendation

the above functions to following a consistent approach to use the reserve cache mechanism.





OPTIMIZATIONS | SONICSNIPEBOT

ID	Title	Category	Status
FTV	Logarithm Refinement Optimization	Gas Optimization	Acknowledged
FOP	Checks Can Be Performed Earlier	Gas Optimization	Acknowledged •
FDP	Unnecessary Use Of SafeMath	Gas Optimization	Acknowledged •
FWY	Struct Optimization	Gas Optimization	Acknowledged •
FGT	Unused State Variable	Gas Optimization	Acknowledged





General Detectors

Missing Zero Address Validation

Some functions in this contract may not appropriately check for zero addresses being used.

Attention Required



Attention Required

\rm Correct Move Version

This contract uses a conventional version of Move Dependences

- No compiler version inconsistencies found
- No unchecked call responses found
- No vulnerable self-destruct functions found
- No assertion vulnerabilities found
- No old solidity code found
- No external delegated calls found
- ✓ No external call dependency found
- No vulnerable authentication calls found
- No invalid character typos found
- No RTL characters found
- No dead code found
- No risky data allocation found
- No uninitialized state variables found
- No uninitialized storage variables found
- No vulnerable initialization functions found
- No risky data handling found
- No number accuracy bug found
- No out-of-range number vulnerability found
- No map data deletion vulnerabilities found

- No tautologies or contradictions found
- No faulty true/false values found
- No innacurate divisions found
- No redundant constructor calls found
- No vulnerable transfers found
- No vulnerable return values found
- No uninitialized local variables found
- No default function responses found
- No missing arithmetic events found
- No missing access control events found
- No redundant true/false comparisons found
- No state variables vulnerable through function calls found
- No buggy low-level calls found
- No expensive loops found
- No bad numeric notation practices found
- ✓ No missing constant declarations found
- No missing external function declarations found
- No vulnerable payable functions found
- No vulnerable message values found





Vulnerability Scan

REENTRANCY

✓ No reentrancy risk found

Severity Minor

Confidence Parameter Certain

Vulnerability Description

Scanning Line:

'Z' POOI: No additional amount of this Staking pool can be minted by a private wallet or contract...

(Which is normal for major contract utility options)







```
fun init(ctx: &mut TxContext) {
    // initialize admin cap and transfer to publisher
    transfer::transfer(OwnerCap {
        id: object::new(ctx),
    }, tx_context::sender(ctx));

// initialize operator cap and transfer to publisher
    transfer::transfer(OperatorCap {
        id: object::new(ctx),
    }, tx_context::sender(ctx));
}

public entry fun transfer_ownercap(cap: OwnerCap, to: address, ctx: &mut TxContext) {
    transfer::transfer(cap, to);
    event::emit(OwnerCapTransferredEvent {
        from: sui::tx_context::sender(ctx),
        to,
```

Alleviation:

All of the initially minted assets are transfer to the contract deployer when deploying the contract. This is Normal for most deployer and/or contract owner.

RECOMMENDATION

Project stakeholders should be consulted during the initial asset distribution process.





Repository

https://github.com/SonicSnipeBot/SonicStakingSmartContract/

Audited Files

SONICSTAKINGCONTRACT/Move.toml
OWNERSHIP.Move

Contracts
Creator Hash:

CREATOR TXN HASH: Not Established

Contracts:

Staking Contract Address
Not Deployed





MANUAL REVIEW

SONICSNIPEBOT: Sonic Snipe Bot is an Automated trading bot designed for fast trading execution, embedded in the Telegram Application. Sonic simplifies trading by eliminating the need to navigate to the right Dex, adjust Gas settings, or manually enter slippage.

TOKEN NAME: SONICSNIPEBOT Chain/Standard: SUI NETWORK

LAUNGUGE: MOVE



The SONICSNIPEBOT Platform Is Launched On the Sui Network









Issue Description Checking Status

1.	Compiler errors.	PASSED
2.	Race Conditions and reentrancy. Cross-Function Race Conditions.	PASSED
3.	Possible Delay In Data Delivery.	PASSED
4.	Oracle calls.	PASSED
5.	Front Running.	PASSED
6.	Move Dependency.	PASSED
7.	Integer Overflow And Underflow.	PASSED
8.	DoS with Revert.	PASSED
9.	Dos With Block Gas Limit.	PASSED
10.	Methods execution permissions.	PASSED
11.	Economy Model of the contract.	PASSED
12.	The Impact Of Exchange Rate On the Move Logic.	PASSED
13.	Private use data leaks.	PASSED
14.	Malicious Event log.	PASSED
15.	Scoping and Declarations.	PASSED
16.	Uninitialized storage pointers.	PASSED
17.	Arithmetic accuracy.	PASSED
18.	Design Logic.	PASSED
19.	Cross-Function race Conditions	PASSED
20.	Save Upon Move contract Implementation and Usage.	PASSED
21.	Fallback Function Security	PASSED







Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 🏐

All of the initially Address assets are exported to the standard liabrary...

```
# Named addresses will be accessible in Move as `@name`. They're also exported # for example. `std = "0x1"` is exported by the Standard Library.
```

RECOMMENDATION

Project stakeholders should be consulted during the initial asset distribution process.





RECOMMENDATION

Deployer and/or contract owner private keys are secured carefully.

Please refer to PAGE-09 CENTRALIZED PRIVILEGES for a detailed understanding.

ALLEVIATION

The SONICSNIPEBOT project team understands the centralization risk. Some functions are provided privileged access to ensure a good runtime behavior in the project





Identifier	Definition	Severity
COD-10	Third Party Dependencies	Minor 🏐

Smart contract is interacting with third party protocols e.g., Pancakeswap router, cashier contract, protections contract. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

RECOMMENDATION

Inspect and validate third party dependencies regularly, and mitigate severe impacts whenever necessary.





DISCLAIMERS

Vital Block Security provides the easy-to-understand audit of Solidity, Move and Raw source codes (commonly known as smart contracts).

The smart contract for this particular audit was analyzed for common contract vulnerabilities, and centralization exploits. This audit report makes no statements or warranties on the security of the code. This audit report does not provide any warranty or guarantee regarding the absolute bug-free nature of the smart contract analyzed, nor do they provide any indication of the client's business, business model or legal compliance. This audit report does not extend to the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. Cryptographic tokens are emergent technologies, they carry high levels of technical risks and uncertainty. 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. This audit report could include false positives, false negatives, and other unpredictable results.

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ABOUT VITAL BLOCK

Vital Block provides intelligent blockchain Security Solutions. We provide solidity and Raw Code Review, testing, and auditing services. We have Partnered with 15+ Crypto Launchpads, audited 50+ smart contracts, and analyzed 200,000+ code lines. We have worked on major public blockchains e.g., Ethereum, Binance, Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Aptos, Oasis, etc.

Vital Block is Dedicated to Making Defi & Web3 A Safer Place. We are Powered by Security engineers, developers, Ul experts, and blockchain enthusiasts. Our team currently consists of 5 core members, and 4+ casual contributors.

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