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Blockchain Security | Smart Contract Audit | KYC Certification | **SAFU** |
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MADE IN CANADA

SonicSnipeBot

AUDIT
SECURITY ASSESSMENT

30th Jan 2025

For



Making Blockchain, Defi And Web3 A Safer Place.



**Smart
Check**



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INTRODUCTION

Auditing Firm	 VITAL BLOCK SECURITY
Client Firm	 SONICSNIPBOT
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 28th 2025
Final Report Date	January 30th 2025

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



Document Properties


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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.

- [Sonicsnipebot · Staking Contract](#) (TNNB4550)
- https://github.com/SonicSnipeBot/SonicStakingSmartContract/blob/master/sui_staking_contract/sources/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 (http://twitter.com/Vb_Audit), or Email (info@vitalblock.org).

Table 1.2: Vulnerability Severity Classification

Impact	High	Medium	Low
	Critical	High	Medium
	High	Medium	Low
	Medium	Low	Low
Likelihood			
High Medium Low			

Methodology

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

- Likelihood 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 **SONICSNIPBOT** 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/SonicSnipeBot/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
- 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

- Token Supply Manipulation
- Access Control and Authorization
- Assets Manipulation
- Ownership Control
- Liquidity Access
- Stop and Pause Trading
- 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.**
- **The client's development team reviews the report and makes amendments to the codes.**
- **The auditing team provides the final comprehensive report with open and unresolved issues.**

PUBLISH

- **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

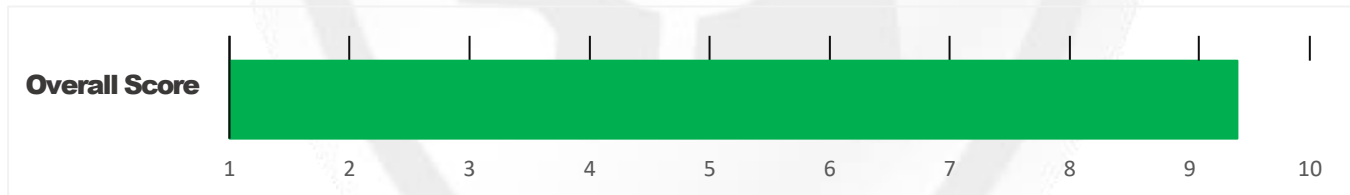
Category	Checklist Items
Basic Coding Bugs	Constructor Mismatch
	Ownership Takeover
	Redundant Fallback Function
	Overflows & Underflows
	Reentrancy
	Money-Giving Bug
	Blackhole
	Unauthorized Self-Destruct
	Revert DoS
	Unchecked External Call
	Gasless Send
	Send Instead Of Transfer
	Costly Loop
	(Unsafe) Use Of Untrusted Libraries
	(Unsafe) Use Of Predictable Variables
	Transaction Ordering Dependence
	Deprecated Uses
Semantic Consistency Checks	Semantic Consistency Checks
Advanced DeFi Scrutiny	Business Logics Review
	Functionality Checks
	Authentication Management
	Access Control & Authorization
	Oracle Security
	Digital Asset Escrow
	Kill-Switch Mechanism
	Operation Trails & Event Generation
	ERC20 Idiosyncrasies Handling
	Frontend-Contract Integration
	Deployment Consistency
	Holistic Risk Management
Additional Recommendations	Avoiding Use of Variadic Byte Array
	Using Fixed Compiler Version
	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
Noteworthy 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
Critical 🚫	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major 🟡	These risks are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity.
Medium 🟠	These risks 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-risk re-entrancy-related vulnerabilities should be fixed to deter exploits.
Minor 🟢	These risks do not pose a considerable risk to the contract or those who interact with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown 🟤	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

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:**
- **Privileged role's private key must be carefully secured to avoid any potential hack.**
- **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 SCOPE

SONICSNIPBOT

ID	Repo	Comment	File	SHM321 Checksum
SSB0	contracts/sui_staking_contract.move	Cc512474	.move	788099YIRHVS853PKTGYHHH67843OKJ FGYYY766I09
SSB1	contracts/sui_staking_contract.move	cC512474	.move	347520JHDB7549H22HRTFRRE45563DES PDHBVHD655
SSB2	contracts/sui_staking_contract.move	cC512474	.move	1988Y73HUGFDINN353840OPUUYTEHH GDTFF9NNDU
SSB3	contracts/sui_staking_contract.move	cC512474	.move	4438648TEOHBF6378309EHROECNEPOEJ DNETE8EYEU3
SSB4	contracts/sui_staking_contract.move	cC512474	.move	66390028765RVNKDBYFTGW553T2KOER EDW7890007
SSB5	sui_staking_contract.move	cC512474	ownership.move	09825539BDYG543DVNKOMIKEBYRRRE4 367DGVRS5EUY
SSB6	sui_staking_contract.move	cC512474	ownership.move	8654RJVT3DWI865YK2643YTRFVDJBOBE T8386YF3683G
SSB7	sui_staking_contract.move	cC512474	ownership.move	7763888636TGYGFFTFHBTGDC VSND0788U59
SSB8	sui_staking_contract.move	cC512474	ownership.move	88530486494YRHFEICBGEIEGWTWYWU HEJEHEIE33U3
SSB9	sui_token_contract_tests.move	cC512474	ownership.move	1209873KHJLKJNFJHGE98763990029774 BCUHHDDU239
SSB10	sui_token_contract_tests.move	cC512474	pool.move	23456UGFYUHE98756EFHJHE7654ESDFG HGERTYUJ3897
SSB11	sui_token_contract_tests.move	cC512474	pool.move	37889UHBIONE07TYRDFGVBN5678939IU WSFVDYUHDIC
SSB12	sui_token_contract_tests.move	cC512474	pool.move	678903098TFHJKFCPOIUGFGHJKE9865ER GBEIVBHE8767
SSB13	SonicStakingSmartContract	cC512474	Move.toml	98765SDFGBNFCOI56789UIYHGGHEJDIU YTRDCVBN3459
SSB14	SonicStakingSmartContract	cC512474	Move.toml	3348y9808hgtrusvnm43100ejfojgf nut8496230hb574he
SSB15	SonicStakingSmartContract	cC512474	Move.toml	9864byf5f379eig28ffre64085jv1613 251guhkdmue87
SSB16	SonicStakingSmartContract	cC512474	Move.toml	7ej2d8jg765tjfiowg538ij74dwftvy64 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_ownership(cap: OwnerCap, to: address, ctx: &mut TxContext) {
    transfer::transfer(cap, to);
    event::emit(OwnershipTransferredEvent {
        from: sui::tx_context::sender(ctx),
        to,
```






Description

For Ownership efficiency, the **SonicSnipeBot** Team is engineered with the reserve cache mechanism, which necessitates 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 | SONICSNIPBOT

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

Correct Move Version

This contract uses a conventional version of Move Dependences



Attention
Required

- | | |
|--|--|
|  No compiler version inconsistencies found |  No tautologies or contradictions found |
|  No unchecked call responses found |  No faulty true/false values found |
|  No vulnerable self-destruct functions found |  No inaccurate divisions found |
|  No assertion vulnerabilities found |  No redundant constructor calls found |
|  No old solidity code found |  No vulnerable transfers found |
|  No external delegated calls found |  No vulnerable return values found |
|  No external call dependency found |  No uninitialized local variables found |
|  No vulnerable authentication calls found |  No default function responses found |
|  No invalid character typos found |  No missing arithmetic events found |
|  No RTL characters found |  No missing access control events found |
|  No dead code found |  No redundant true/false comparisons found |
|  No risky data allocation found |  No state variables vulnerable through function calls found |
|  No uninitialized state variables found |  No buggy low-level calls found |
|  No uninitialized storage variables found |  No expensive loops found |
|  No vulnerable initialization functions found |  No bad numeric notation practices found |
|  No risky data handling found |  No missing constant declarations found |
|  No number accuracy bug found |  No missing external function declarations found |
|  No out-of-range number vulnerability found |  No vulnerable payable functions found |
|  No map data deletion vulnerabilities found |  No vulnerable message values found |



Vulnerability Scan

REENTRANCY

✓ No reentrancy risk found

Severity

Minor

Confidence Parameter

Certain

Vulnerability Description

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

(Which is normal for major contract utility options)

```
public entry fun update_active_status<CoinTypeA>(
    _owner_cap: &OwnerCap,
    self: &mut Pool<CoinTypeA>,
    is_active: bool,
    clock: &Clock
) {
    assert_version(self);
    assert!(self.is_active != is_active, E_UPDATE_ACTIVE_STATUS);

    self.is_active = is_active;
    let current_time = clock::timestamp_ms(clock) / MILLISECONDS_IN_SECONDS;
```

Scanning Line:



Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor \$ 

```

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_owncap(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

SONICSNIPBOT: 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: SONICSNIPBOT

Chain/Standard: SUI NETWORK

LAUNGUGE: MOVE



The SONICSNIPBOT Platform Is Launched On the Sui Network





ISSUES CHECKING STATUS

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



AUDIT RESULT

PASSED



Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 

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

```
[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"
```

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

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