Cyberscope

Audit Report

SUILAMA

October 2024

Network SUI

Address 0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27::suilama::SUILAMA

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

Network	SUI
Address	0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27::suilama::SUILAMA
Explorer	https://suivision.xyz/coin/0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27::suilama::SUILAMA
Creator	0x0260802fd70718dc5e560073bb51d1dc5b260a80c3b42c01ffa662a90af440f8
Package ID	0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27
Owner	Immutable
Total Supply	10,000,000,000
Decimals	6
Symbol	SUILAMA
Name	Suilama
Description	Solama the Official Unofficial Sui Mascot
Icon URL	https://api.movepump.com/uploads/1000030596_8a14750351.jpg

Audit Updates

Initial Audit	16 Oct 2024

Overview

The `Suilama` token, symbolized as `SUILAMA`, is a token deployed using the Move smart contract framework on the Sui blockchain. It was initialized using the `0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27::suilama::SUILAMA` module, which is part of the package identified by the package ID `0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27`. The token's metadata includes a total supply of `10,000,000,000` tokens and custom metadata attributes. The visual identity of the token is defined by the image located at https://api.movepump.com/uploads/1000030596_8a14750351.jpg. This makes the token distinct in its presentation across various platforms and marketplaces. The owner of the contract is set to `Immutable`, meaning further changes to certain metadata or logic are restricted.

Source Code

The SUI token utilizes the Move language and follows a structured code format, enabling seamless integration with dApps and marketplaces within the Sui ecosystem. The token's visuals and metadata are available through decentralized URLs, enabling secure and persistent access.

- **Decimals**: `6`
- **Symbol**: `SUILAMA`
- **Name**: `Suilama`
- **Description**: `Solama the Official Unofficial Sui Mascot`
- **Icon URL**: https://api.movepump.com/uploads/1000030596_8a14750351.jpg
- **Token Minting**: The token is created via the function `0x2::coin::create_currency<SUI>`.

During this process, an object representing the token's `Treasury Cap` (`v0`) is generated, which defines the total supply of tokens allowed for this currency. The minting function also generates `Coin Metadata` (`v1`), which stores the metadata of the token, which are the decimals, name, symbol, description, and icon URL.

- **Public Transfer**: After minting, the `public_transfer` function is called to move the `Treasury Cap` (`v0`) of the token to the sender's account (`0x2::tx_context::sender(arg1)`). This enables the token creator to control the initial supply of tokens and allows them to distribute them as needed.
- **Public Share Object**: The metadata for the token can be shared through the function `public_share_object` to ensure compatibility across platforms. This allows external dApps and marketplaces to retrieve and display token details such as its name, symbol, and associated icon.

```
module
0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27::suila
ma {
    struct SUILAMA has drop {
        dummy_field: bool,
    }

    fun init(arg0: SUILAMA, arg1: &mut 0x2::tx_context::TxContext) {
        let (v0, v1) = 0x2::coin::create_currency<SUILAMA>(arg0, 6,
b"SUILAMA", b"Suilama", b"Solama the Official Unofficial Sui Mascot",
0x1::option::some<0x2::url::Url>(0x2::url::new_unsafe_from_bytes(b"https:
//api.movepump.com/uploads/1000030596_8a14750351.jpg")), arg1);

0x2::transfer::public_transfer<0x2::coin::TreasuryCap<SUILAMA>>(v0,
0x2::tx_context::sender(arg1));

0x2::transfer::public_share_object<0x2::coin::CoinMetadata<SUILAMA>>(v1);
    }

    // decompiled from Move bytecode v6
}
```

Field	Value	Description
Module	0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27::suilama	The module defines the token's functionality, such as creation, transfer, and metadata handling.
Package ID	0x5a4f64079daed04d923c93f3ac4ee04b637e5b3ea2db87d591981c1049508a27	The package ID associated with the SUI token, containing the Move module that defines its behavior.
Decimals	6	The number of decimal places used for token calculations.
Symbol	SUILAMA	The on-chain symbol of the token.
Name	Suilama	The on-chain name of the token.

Description	Solama the Official Unofficial Sui Mascot	The description of the token.
Icon URI	https://api.movepump.com/uploads/1000030596_8a14750351.jpg	The URL to the external image used for the visual representation of the token.
Treasury Cap	Determined by minting	The initial supply of the token as minted by the creator

Findings Breakdown

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

Summary

The `Suilama` token, built on the Sui network, leverages the Move smart contract framework, providing a robust and flexible architecture for token management. This audit evaluates its security, functionality, and compliance with Sui's best practices. The review focuses on identifying potential vulnerabilities, optimizing performance, and ensuring the token's reliability within the Sui ecosystem.

The token's smart contract analysis indicates that the owner's control over the token's key operational features has been set to immutable, ensuring that certain critical parameters, such as the total supply and metadata, cannot be altered after deployment. While this enhances security, ensuring no further unauthorized updates, it also means any future modifications to the token's functionality will require a new deployment. The current configuration safeguards the integrity of the token, making it a secure asset within the Sui network.

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Cyberscope is a 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.

The Cyberscope team

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