Cyberscope

Audit Report
GBCMOBILE

January 2025

Network   SUI

Address   0xdb5162ae510a06dd9ce09016612e64328a27914e9570048bbb8e61b2cb5d6b3e::kw::KW

Audited by   © cyberscope

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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	0xdb5162ae510a06dd9ce09016612e64328a27914e9570048bbb8e61b2cb5d6b3e::kw::KW
Explorer	https://www.suiscan.xyz/mainnet/coin/0xdb5162ae510a06dd9ce09016612e64328a27914e9570048bbb8e61b2cb5d6b3e::kw::KW
Creator	0x54797ad359f59b512c6a4089d0946fb0ee179bbe175edbda470df5d1ff4dd9b8
Package ID	0xdb5162ae510a06dd9ce09016612e64328a27914e9570048bbb8e61b2cb5d6b3e
Owner	Immutable
Total Supply	1,000,000,000
Decimals	9
Symbol	KW
Name	GBCMOBILE
Description	GBC is the first Arab pioneering company to innovate in the field of providing services
URL	https://gbcmobile.com/en/

Audit Updates

Initial Audit	24 Jan 2025

Overview

The `GBCMOBILE` token, symbolized as `KW`, is a token deployed using the Move smart contract framework on the Sui blockchain. It was initialized using the `0xdb5162ae510a06dd9ce09016612e64328a27914e9570048bbb8e61b2cb5d6b3e ::kw::KW` module, which is part of the package identified by the package ID `0xdb5162ae510a06dd9ce09016612e64328a27914e9570048bbb8e61b2cb5d6b3e`. The token's metadata includes a total supply of `1,000,000,000` tokens and custom metadata attributes. The URL representing the token is https://gbcmobile.com/en/. The owner of the contract is set to `Immutable`, meaning further changes to certain metadata or logic are restricted.

Source Code

The 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 metadata are available through decentralized URLs, enabling secure and persistent access.

- **Decimals**: `9`
- **Symbol**: `KW`
- **Name**: `GBCMOBILE`
- **Description**: `GBC is the first Arab pioneering company to innovate in the field of providing services`
- **URL**: https://gbcmobile.com/en/
- **Token Creation:** The token is created in the `create_currency<KW>`. In this function the KW token is created with 9 decimals, the name GBCMOBILE, description and URL.
- **Token Minting:** The token is minted via the function. `mint_and_transfer<KW>`. This function mints a specified amount of coins and transfers them to the recipient. It calls the mint function internally. The tokens that are minted are `1,000,000,000,000,000,000` without calculating the decimals. Next, they are sent to the recipient.
- **Public Transfer**: After minting, the `public_transfer` function is called to move the `Treasury Cap  ( v2 )` of the token to (`@0x0`).
- **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
0xdb5162ae510a06dd9ce09016612e64328a27914e9570048bbb8e61b2cb5d6b3e::kw {
    struct KW has drop {
        dummy_field: bool,
    }


    fun init(arg0: KW, arg1: &mut 0x2::tx_context::TxContext) {
        let (v0, v1) = 0x2::coin::create_currency<KW>(arg0, 9, b"KW",
b"GBCMOBILE", b"GBC is the first Arab pioneering company to innovate in
the field of providing services",
0x1::option::some<0x2::url::Url>(0x2::url::new_unsafe_from_bytes(b"https:
//gbcmobile.com/en/")), arg1);
        let v2 = v0;
        0x2::coin::mint_and_transfer<KW>(&mut v2, 1000000000000000000,
0x2::tx_context::sender(arg1), arg1);
        0x2::transfer::public_transfer<0x2::coin::TreasuryCap<KW>>(v2,
@0x0);

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


    // decompiled from Move bytecode v6
}
```

Field	Value	Description
Module	0xdb5162ae510a06dd9ce090 16612e64328a27914e957004 8bbb8e61b2cb5d6b3e::kw	The module defines the token's functionality, such as creation, transfer, and metadata handling.
Package ID	0xdb5162ae510a06dd9ce090 16612e64328a27914e957004 8bbb8e61b2cb5d6b3e	The package ID associated with the SUI token, containing the Move module that defines its behavior.

Decimals	9	The number of decimal places used for token calculations.
Symbol	KW	The on-chain symbol of the token.
Name	GBCMOBILE	The on-chain name of the token.
Description	GBC is the first Arab pioneering company to innovate in the field of providing services	The description of the token.
URL	https://gbcmobile.com/en/	The URL to the external image used for the visual representation of the token.
Treasury Cap	Determined during minting	Capability allowing the bearer to mint and burn coins.

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 `GBCMOBILE` 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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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 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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