Cyberscope

Audit Report

Vhagar

September 2024

Network	SOL
Address	4UvV46RjhL4Xvy1DeGWBHJ2EWUwzgNN2EzUumMqMVDQA
Audited by	© cyberscope

Analysis

Critical Medium Minor / Informative Pass

Severity	Code	Description	Status
●	STMA	Mint Authority	Passed
●	STFA	Freeze Authority	Passed
●	ST2TMM	Token Modifiable Metadata	Unresolved

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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	Solana
Address	4UvV46RjhL4Xvy1DeGWBHJ2EWUwzgNN2EzUumMqMVDQA
Explorer	https://solscan.io/address/4UvV46RjhL4Xvy1DeGWBHJ2EWUwzgNN2EzUumMqMVDQA
Name	Vhagar
Symbol	VGR
Decimals	6
Total Supply	100,000,000,000
Metadata File Type	JSON
Owner Program	https://solscan.io/address/TokenzQdBNbLqP5VEhdkAS6EPFLC1PHnBqCXEpPxuEb
Badge Eligibility	Yes

Audit Updates

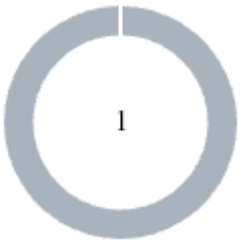
Initial Audit	06 Sep 2024

Overview

The Vhagar token symbolized as VGR, is a distinguished SPL (Solana Program Library) token initialized using the `TokenzQdBNbLqP5VEhdkAS6EPFLC1PHnBqCXEpPxuEb` Token Program on the Solana blockchain, with a supply of 100,000,000,000 tokens. The token uses the URL https://i.degencdn.com/ipfs/bafkreia5l2u2mih65y2c35sik3ssrteadeue7tdziyhkngwuyix4tctcey, which points to a decentralized storage service, while the image is used for visual identification of the token across platforms and marketplaces. Overall, the solana token is a distinct entity within the Solana network, identifiable by its unique characteristics as outlined in its metadata.

Field	Value	Description
mint	4UvV46RjhL4Xvy1DeGWBHJ2EWUwzgNN2EzUumMqMVDQA	The public key of the Mint Account it derives from
name	Vhagar	The on-chain name of the token
symbol	VGR	The on-chain symbol of the token
uri	https://i.degencdn.com/ipfs/bafkreia5l2u2mih65y2c35sik3ssrteadeue7tdziyhkngwuyix4tctcey	The URI to the external metadata. This URI points to an off-chain JSON file that contains additional data following a certain standard

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

STMA - Mint Authority

Criticality	Passed
Status	Resolved

Description

The token has a fixed supply of tokens, as the mint authority has been revoked, ensuring a stable and unchangeable total supply. This key characteristic enhances its value proposition within the ecosystem by eliminating the possibility of future inflation of the token value through additional minting. This creates a predictable environment for investors and users, contributing to a perception of increased trustworthiness and security. This decision aligns with the best practices aiming to preserve the token's integrity and value, fostering a more sustainable and confident market presence.

STFA - Freeze Authority

Criticality	Passed
Status	Resolved

Description

The freeze authority of the token has been revoked, permanently disabling the ability to freeze and thaw accounts. This action signals a definitive stance on account management within the token's ecosystem, emphasizing the permanence of account statuses. Removing the possibility of altering account states, establishes a more secure environment for token holders, reinforcing the network's commitment to stability and reliability. This decision reflects adherence to best security practices, aiming to solidify investor confidence and enhance the token's value by ensuring consistent operational integrity.

ST2TMM - Token Modifiable Metadata

Criticality	Minor / Informative
Status	Unresolved

Description

The token program is currently susceptible to risks associated with mutable metadata due to non-renounced authorities within the metadata extensions. This setup permits unauthorized or unintended modifications to the token’s metadata, potentially leading to inconsistencies and misinformation that could affect the token's integrity and reliability within the ecosystem.

The use of the `metadataPointer` extension with an active authority that has not been renounced, allows changes to the metadata's designated pointing location.

Recommendation

To mitigate these risks and ensure the stability and integrity of the token’s metadata, it is advisable to secure the metadata by revoking the relevant authorities.

For the `metadataPointer` extension, revoke the `authority` of the metadataPointer to permanently lock the metadata's location and eliminate the possibility of redirection.

Summary

The Vhagar token, built on the Solana network, leverages a solid architecture initiated via the Token program. This audit rigorously evaluates its performance, security, and compliance with best practices. The investigation aims to identify and address any operational vulnerabilities, performance bottlenecks, and areas for optimization, ensuring the token's robustness and reliability in the Solana ecosystem.

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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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