

Audit Report DorkVader

May 2024

Network SOL

Type SPL-Token

Address AhqanaDsDppjgWWpDyFkzHWrc22UJRgwq6F6GnFDpjmm

Audited by © cyberscope



Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit (Transfer Fee Authority)	Passed
•	MT	Mints Tokens (Mint Authority)	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses (Freeze Authority)	Passed



Diagnostics

	Critical	M	edium		Minor /	Informative
--	----------	---------------------	-------	--	---------	-------------

Severity	Code	Description	Status
•	UA	Update Authority	Unresolved
•	ITA	Initial Token Allocation	Unresolved



Table of Contents

Analysis	1
Diagnostics	2
Table of Contents	2
Review	4
Audit Updates	4
Overview	5
Metadata	6
Findings Breakdown	10
UA - Update Authority	11
Description	11
Recommendation	11
ITA - Initial Token Allocation	12
Description	12
Recommendation	12
MT - Mint Tokens (Mint Authority)	13
Description	13
Summary	14
Disclaimer	15
About Cyberscope	16



Review

Network	SOL
Explorer	https://solscan.io/token/AhqanaDsDppjgWWpDyFkzHWrc22UJ Rgwq6F6GnFDpjmm
Fixed Supply	1,000,000,000.00
Token Address	AhqanaDsDppjgWWpDyFkzHWrc22UJRgwq6F6GnFDpjmm
Token name	DorkVader (DORKVADER)
Owner Program	<u>Token Program</u>
Decimals	9
Metadata File Type	JSON
Badge Eligibility	Yes

Audit Updates

Initial Audit	27 May 2024
---------------	-------------



Overview

The DorkVader token symbolized as DORKVADER, is a distinguished SPL (Solana Program Library) token initialized using the TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA Token Program on the Solana blockchain, with a supply of 1,000,000,000 tokens. The token uses the URL https://nftstorage.link/ipfs/bafkreicqwpepob7paj2cb37rucqkddztj52pd6g7raahu7m446efb5 b5pq, which points to a decentralized storage service, while the image https://photos.pinksale.finance/file/pinksale-logo-upload/1714966593143-0a0c3d81fbdbe4 365366f625d41f1842.jpeg 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.



Metadata

The Metaplex Metadata provides details of the characteristics of the DorkVader token, a distinctive digital asset on the Solana blockchain tailored for utilizing the Metaplex Metadata. This metadata includes crucial information necessary for the asset's seamless integration and operation within the Solana ecosystem. Specifically, the metadata was initiated by declaring the HUPyxfemGJTmWA8qBFaJ1uiLt6TFn2HBToB5SbqnUqzd as the update authority attribute, which points to the account authorized to modify the metadata. The mint attribute specified the account

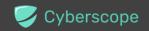
AhqanaDsDppjgWWpDyFkzHWrc22UJRgwq6F6GnFDpjmm authorized for the initial token mint. The asset imposes sellerFeeBasisPoints of 0 basis points, indicating no transaction fee for trading is set. The metadata indicates that the asset has not yet undergone its primary sale as indicated by the primarySaleHappened value set to 0, and is marked as mutable since isMutable is 1, allowing for future changes to the metadata. The editionNonce of 254 signifies a unique edition, while the tokenStandard of 2, aligns with a specified token standard within the Solana blockchain, ensuring its compatibility and standardization across the network. This detailed metadata structure offers a comprehensive overview of the token's key features and its operational framework within the Metaplex ecosystem on Solana.



```
"key": 4,
  "updateAuthority": "HUPyxfemGJTmWA8qBFaJ1uiLt6TFn2HBToB5SbqnUqzd",
  "mint": "AhqanaDsDppjgWWpDyFkzHWrc22UJRgwq6F6GnFDpjmm",
  "data": {
    "name": "DorkVader",
    "symbol": "DORKVADER",
"https://nftstorage.link/ipfs/bafkreicqwpepob7paj2cb37rucqkddztj52pd6g7raahu7m
446efb5b5pq",
    "sellerFeeBasisPoints": 0,
    "creators": [
        "address": "HUPyxfemGJTmWA8qBFaJ1uiLt6TFn2HBToB5SbqnUqzd",
        "verified": 1,
        "share": 100
    ]
  "primarySaleHappened": 0,
  "isMutable": 1,
  "editionNonce": 254,
  "tokenStandard": 2
```



Field	Value	Description
key	4	Account discriminator that identifies the type of metadata account
updateAuthority	HUPyxfemGJTmWA8qBFaJ1 uiLt6TFn2HBToB5SbqnUqzd	The public key that is allowed to update this account
mint	AhqanaDsDppjgWWpDyFkzH Wrc22UJRgwq6F6GnFDpjm m	The public key of the Mint Account it derives from
name	DorkVader	The on-chain name of the token
symbol	DORKVADER	The on-chain symbol of the token
uri	https://nftstorage.link/ipfs/baf kreicqwpepob7paj2cb37rucq kddztj52pd6g7raahu7m446ef b5b5pq	The URI to the external metadata. This URI points to an off-chain JSON file that contains additional data following a certain standard
sellerFeeBasisPoints	0	The royalties shared by the creators in basis points — This field is used by most NFT marketplaces, it is not enforced by the Token Metadata program itself
primarySaleHappened	0	A boolean indicating if the token has already been sold at least once. Once flipped to True, it cannot ever be False again. This field can affect the way royalties are distributed
isMutable	1	A boolean indicating if the metadata account can be updated. Once



		flipped to False, it cannot ever be True again
editionNonce	254	Unique identifier for this edition
tokenStandard	2	The standard of the token



Findings Breakdown



Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	1	0	0	0
Minor / Informative	1	0	0	0



UA - Update Authority

Criticality	Medium
Status	Unresolved

Description

The contract is currently configured in a manner that allows the update authority, identified by the address <code>HUPyxfemGJTmWA8qBFaJ1uilt6TFn2HBToB5SbqnUqzd</code>, to retain privileges that enable the modification of crucial metadata fields. The failure to revoke the update authority leaves the token vulnerable to potential risks, as the designated address retains the capability to make changes to the metadata. This oversight could lead to unauthorized or malicious modifications that might compromise the integrity and intended functionality of the token.

Recommendation

It is recommended to revoke the update authority privileges. This action would ensure a consistent security posture across the contract's operational aspects, eliminating the discrepancy that currently allows for undue modification privileges. Implementing this recommendation would align the contract's security measures, providing a more robust defense against unauthorized changes and enhancing the overall security of the contract's operational environment.



ITA - Initial Token Allocation

Criticality	Minor / Informative
Status	Unresolved

Description

The account HUPyxfemGJTmWA8qBFaJ1uiLt6TFn2HBToB5SbqnUqzd holds a large portion of the total supply. Consequently, at the time of the report, this address owns 49.50% of the entire token supply, amounting to 495,000,000.56 DORKVADER . This concentration of such a large amount of the token supply in some addresses raises significant concerns about centralization within the token's ecosystem. Such a scenario creates a risk of market manipulation and could lead to other adverse effects, potentially undermining the token's decentralized nature and the overall health of its ecosystem.

Account	Quantity	Percentage
HUPyxfemGJTmWA8qBFaJ1uiLt6TFn2HBToB5Sbqn Uqzd	495,000,000.56	49.50%

Recommendation

It is recommended to distribute the tokens more broadly to achieve a more decentralized token holding structure. This can mitigate the risks associated with centralization and ensure a more stable and secure ecosystem for all participants. If the new addresses consist of a team's wallet address, then the team should carefully manage the private keys of that account. We strongly recommend implementing a robust security mechanism to prevent a single user from accessing the contract admin functions, such as a multi-sign wallet so that many addresses will confirm the action.



MT - Mint Tokens (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.

The information regarding the revoke transaction of the mint authority can be accessed through the following link:

https://solscan.io/tx/3vFT9W4ECf84LtHTV7cUGqpByCsCM21WDsz2gYRstFjwRgSQGFHR MvsFRXRchCnTnErWL5bbqFfEkhuu4KD4wb1T



Summary

The DorkVader 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. The token program analysis reported that the update authority privileges have not yet been revoked. This means that the token's metadata, including essential attributes like the token's name, symbol, description, and image, remains vulnerable to modification.



Disclaimer

The information provided in this report does not constitute investment, financial or trading advice and you should not treat any of the document's content as such. This report may not be transmitted, disclosed, referred to or relied upon by any person for any purposes nor may copies be delivered to any other person other than the Company without Cyberscope's prior written consent. This report is not nor should be considered an "endorsement" or "disapproval" of any particular project or team. This report is not nor should be regarded as an indication of the economics or value of any "product" or "asset" created by any team or project that contracts Cyberscope to perform a security assessment. This document does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors' business, business model or legal compliance. This report should not be used in any way to make decisions around investment or involvement with any particular project. This report represents an extensive assessment process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

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

https://www.cyberscope.io