



Cyberscope

Audit Report

Asvoria

January 2024

Network SOL

Type SPL Token

Address 5mpqMEaWTHayWP9khGCsx2kXBnmSjD6QRFsuDv45LM8y

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Review

Network	SOL
Token Type	SPL Token
Explorer	https://solscan.io/token/5mpqMEaWTHayWP9khGCsx2kXBnmSjD6QRFsuDv45LM8y
Current Supply	1,200,000,000
Token name	Asvoria (ASV)
Token address	5mpqMEaWTHayWP9khGCsx2kXBnmSjD6QRFsuDv45LM8y
Owner Program	Token 2022 Program
Authority	ASV4xZW71kSfPEtBtb12nJRzFcsNtMmC1HFuWSC3Fvqt
Decimals	9
Current Fee Epoch	565
Transfer fee	3%
Future Fee Epoch	568
Future Transfer Fee	5%
Signature	4mKXbNtzwq7vf4KqDLMCjbBKaj2XfQ64eiCTxyScJYU5NouU1UT9uTQK1pj676yWY5VA9gfdZTnWX9P13yWnj5ut
Block	#244273552
Deploy Time	26/01/2024, 17:52:28 +UTC
Instructions	CreateAccount, InitializeTransferFeeConfig, InitializeMint
By	ASV4xZW71kSfPEtBtb12nJRzFcsNtMmC1HFuWSC3Fvqt

Metadata File Type	JSON
Name	Asvoria
Symbol	ASV
Image	https://bafybeiap2jqce7xki7m6ei2ctkkdwczxglllo3gnueia63c6aipbka3opmu.ipfs.nftstorage.link/asvoria.png
Total Holders (At the time of the report)	2
Total Transactions (At the time of the report)	22

Audit Updates

Initial Audit	29 Jan 2024
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Source Files

Filename	JSON
Metadata/JSON	https://solscan.io/token/5mpqMEaWTHayWP9khGCsx2kXBnmSjD6QRFsuDv45LM8y#metadata

Overview

The Asvoria token, represented by the symbol `ASV`, is an SPL (Solana Program Library) token, as indicated by its presence on the Solana blockchain. The metadata JSON file associated with this token provides essential details about it. The name Asvoria specifies the identity within the Solana ecosystem. A significant aspect of this token's metadata is the image URL

<https://bafybeiap2jgce7xki7m6ei2ctkkdwczxgll03gnueia63c6aipbka3opmu.ipfs.nftstorage.link/asvoria.png>, which points to an image. This image is used for visual identification of the token across various platforms and marketplaces. Overall, the Asvoria token is a distinct entity within the Solana network, identifiable by its unique characteristics as outlined in its metadata.

Holders

At the time of this report, the distribution of Asvoria token holders is as follows:

#	Address	Owner	Quantity	Percentage
1	EGMAVP7BJA1eknn2T EKMGWtCiD42EiRnm5 8T3DaaTpSZ	ASV4xZW71kSfPEtBtb12nJRz FcsNtMmC1HFuWSC3Fvqt	1,199,999,998 .4716494	99.9999%
2	9WbfMs3DHCFsSWg1 ewXrsY6x1NAZNDhHM YrRmBdJBg9f	3g9cFtY1vumboLXb1X3zeTL e3y4dEtwgCYtyUd7QycX1	1.528295603	0.0000%

This distribution represents the token holdings at the specific time of our audit. Changes in distribution may occur due to subsequent transactions.

Metadata

MetaplexMetadata

The MetaplexMetadata is specific to the Metaplex platform on Solana and includes a wide range of technical details necessary for the asset's interaction within that ecosystem. The current JSON file represents the metadata for `Asvoria` (symbol: `ASV`), a digital asset on the Solana blockchain. The `updateAuthority` indicates the account authorized to modify this data, while the `mint` field uniquely identifies the public key of the mint account it derives from. The data section includes the token's name, symbol, a URI for additional information, and notes a zero seller fee. The token has had its primary sale (`primarySaleHappened` : 1), its metadata is changeable (`isMutable` : 1), and it follows a specific token standard within Solana (`tokenStandard` : 2). This metadata provides a concise overview of Asvoria's key characteristics on the blockchain.

```
{
  "chainId": 101,
  "address": "GYaUG9bhv7XhkNeuL5qgS52WdLory1D6CeQ2cens8mik",
  "symbol": "ASV",
  "name": "Asvoria",
  "Ticker": "ASV",
  "decimals": 9,
  "Image":
"https://bafybeiap2jqce7xki7m6ei2ctkkdwczxglllo3gnueia63c6aipbka3opmu.ipfs.nftstorage.link/asvoria.png",
  "tags": null,
  "otherExtensions": {},
  "Icon": "",
  "key": 4,
  "updateAuthority": "ASV4xZW71kSfPEtBtb12nJRzFcsNtMmC1HfUWSC3Fvqt",
  "mint": "5mpqMEaWTHayWP9khGCsx2kXBnmSjD6QRFsuDv45LM8y",
  "data": {
    "name": "Asvoria",
    "symbol": "ASV",
    "uri":
"https://gist.githubusercontent.com/0xlazytron/a625b73ac8589cbe55da9c66a05c28b7/raw/521d2c0ee1045073495df784c0e552faecf9ad6b/metadata.json",
    "sellerFeeBasisPoints": 0
  },
  "primarySaleHappened": 1,
  "isMutable": 1,
  "editionNonce": 255,
  "tokenStandard": 2
}
```

Field	Value	Description
chainId	101	The ID of the chain
Symbol	ASV	The on-chain symbol of the token
Name	Asvoria	The on-chain name of the token
Ticker	ASV	The ticker of the token
Decimals	9	The decimals of the token
Image	https://baf...oria.png	The image of the token
key	4	Account discriminator that identifies the type of metadata account
updateAuthority	ASV4x...Fvqt	The public key that is allowed to update this account
mint	5mpq...5LM8y	The public key of the Mint Account it derives from
Uri	https://gist.githubusercontent.com/0xl...data.json	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	1	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	255	Unique identifier for this edition
tokenStandard	2	The standard of the token

URI Metadata

The URI Metadata represents the essential details of the `Asvoria`, symbolized with `ASV`.

It includes all the information of the token including its name, symbol, and its decimals. A feature is the inclusion of an image URL,

["https://bafybeiap2jgce7xki7m6ei2ctkkdwcxglllo3gnueia63c6aipbka3opmu.ipfs.nftstorage.link/asvoria.png"](https://bafybeiap2jgce7xki7m6ei2ctkkdwcxglllo3gnueia63c6aipbka3opmu.ipfs.nftstorage.link/asvoria.png). This image link is crucial for visual identification and representation of the

Asvoria token across various platforms and marketplaces. This metadata succinctly encapsulates the key visual and identifying features of the Asvoria token.

```
{
  "chainId": "101",
  "address": "GYaUG9bhv7XhkNeuL5qgS52WdLory1D6CeQ2cens8mik",
  "symbol": "ASV",
  "name": "Asvoria",
  "collection": null,
  "ticker": "ASV",
  "decimals": 9,
  "image":
  "https://bafybeiap2jgce7xki7m6ei2ctkkdwcxglllo3gnueia63c6aipbka3opmu.ipf
  s.nftstorage.link/asvoria.png",
  "tags": null,
  "otherExtensions": {}
}
```

Token Sale Allocation

At the time of this report, the project's token sale allocation is outlined as follows:

Round	%	Tokens	PRICE	VALUATION	AMOUNT RAISED
Seed	8	96,000,000	\$ 0,02	\$24,000,000	\$1,920,000
Private sale*	14,7	176,000,000	\$ 0,03	\$36,000,000	\$5,280,000
Public sale	5	60,000,000	+/- \$ 0,04 TBD	+/- \$48,000,000 TBD	+/- \$2,400,000 TBD
Total	27,7	332,000,000	-	-	+/- \$9,600,000 TBD

*Ongoing; could be allocated to Public Sale

Distribution and Vesting Details

At the time of this report, the project's expected distribution and vesting details are as follows:

Name	TGE	Cliff	Linear Vesting Time
SEED	4%	3 months	9 months
PRIVATE SALE	5%	3 months	8 months
PUBLIC SALE	16%	-	6 months
TEAM	0%	3 months	20 months
ADVISORS	0%	3 months	20 months
MARKETING & OPERATIONS	0%	-	10 months
LIQUIDITY & EXCHANGE	50% LOCKED	-	5 months
ECOSYSTEM & DEVELOPMENT	0%	-	16 months
STAKING	0%	-	12 months
TREASURY	0%	-	6 months

Findings Breakdown



Critical	0
Medium	0
Minor / Informative	4

Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	0	0	0	0
Minor / Informative	4	0	0	0

CR - Centralization Risk

Criticality	Minor / Informative
Status	Unresolved

Description

The token account `EGMAVP7BJA1eknn2TEKMGWtCiD42EiRNm58T3DaaTpSZ`, owned by the account address `ASV4xZW71kSfPEtBtb12nJRzFcsNtMmC1HFuWSC3Fvqt`, holds almost all the entire supply of the Asvoria token. Following the deployment, all tokens were transferred to this single account. Consequently, this address now owns the entire token supply, amounting to 1,199,999,998 ASV. This concentration of almost all the entire token supply in one address 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.

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 address consists 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.

ELFM - Exceeds Fees Limit

Criticality	Minor / Informative
Status	Unresolved

Description

The contract owner has the authority to set the transaction fees to any number even up to 100%. The owner may take advantage of it by calling the `SetTransferFee` instruction with a high percentage value.

Recommendation

To resolve this issue, the owner should disable the `SetTransferFee` functionality.

MT - Mints Tokens

Criticality	Minor / Informative
Status	Unresolved

Description

The owner has the ability to mint additional tokens at any time. This will lead to an increase in total supply, which will have several impacts, including potential inflationary effects on the token's value, alterations in the token distribution, and implications for token holders regarding the predictability and stability of the token's supply. The presence of an unrestricted minting capability in a token contract is a crucial factor that token holders should be aware of, as it confers a considerable amount of control and influence over the token's economy to the token's owner or the authorized entity.

Recommendation

It is recommended that the token's owner should consider disabling further minting. This will provide a layer of assurance to the token holders, affirming that the total supply of the token will remain fixed and not subject to unexpected changes. This action will not only enhance the trust and credibility of the token but also stabilize its economic model by ensuring a predictable supply.

MMC - Mutable Metadata Capability

Criticality	Minor / Informative
Status	Unresolved

Description

The `isMutable` variable is a boolean indicating if the metadata can be updated. Currently, this variable is set to `1`. This configuration indicates that the metadata associated with the token is mutable, meaning it can be altered or updated post-creation. The ability to change metadata presents certain risks and considerations. While this feature offers flexibility in correcting potential errors or updating information, it also introduces a level of uncertainty regarding the token's attributes. The mutable nature of the metadata could be leveraged by the token's owner to alter crucial attributes of the token, potentially affecting the perception and value of the token. This can lead to trust issues among token holders, as they might perceive a risk of arbitrary changes that could impact the token's identity or utility.

Recommendation

Considering the potential risks associated with mutable metadata, it is recommended to carefully evaluate the necessity of this feature for the token's intended use and lifecycle. If the mutable nature of the metadata is not essential or if it poses a significant risk to the token's integrity and the trust of its holders, it would be prudent to set the `isMutable` to `0`, making the metadata immutable. This action will ensure that the metadata cannot be altered once it has been set, thereby providing assurance to the token holders regarding the stability and reliability of the token's attributes.

Summary

The Asvoria token, built on the Solana network, implements a robust smart contract structure, with analysis revealing no critical issues in its design or functionality.

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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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