Cyberscope

Audit Report
BABY GECKO

February 2024

Network	SOL
Type	SPL Token
Address	DsUTWSt3gT4tkaEBK9uJHPVgNuKzquCpoQkeCPcfh3Si
Audited by	© cyberscope

Table of Contents

Review

Network	SOL
Token Type	SPL Token
Explorer	https://solscan.io/token/DsUTWSt3gT4tkaEBK9uJHPVgNuKzquCpoQkeCPcfh3Si
Current Supply	1,000,000,000
Token name	BABY GECKO (BABYGECKO)
Token address	DsUTWSt3gT4tkaEBK9uJHPVgNuKzquCpoQkeCPcfh3Si
Owner Program	Token Program
Authority	11111111111111111111111111111111
Mint Authority	System Program
Decimals	9
Signature	nD1fJBiKtDi5DvsfCMPqc6BBera4b91R36MBKEQNK18jUcRAtu4hjZyQxCm8im5y2m3EDQxFMSSqAReYDv8Zoa9
Block	245230472
Deploy Time	Jan 31, 2024 at 10:28:56 Eastern European Standard Time
Instructions	Create Account, Initialize Mint, CreateAssociatedAccount, Mint To, Token Metadata Program, Transfer
By	4G62dtouiZs4U829TBA7br4wRodQ9M9CfTPeUeEHoFsE
Metadata File Type	JSON
Name	BABY GECKO
Symbol	BABYGECKO

Description	NONE
Image	NONE
Total Transfers (At the time of the report)	1
Total Transactions (At the time of the report)	1
Total Holders (At the time of the report)	2

Audit Updates

Initial Audit	16 Feb 2024

Source Files

Filename	JSON
Metadata/JSON	https://explorer.solana.com/address/DsUTWSt3gT4tkaEBK9uJHPVgNuKzquCpoQkeCPcfh3Si/metadata

Overview

The BABY GECKO token, represented by the symbol `BABYGECKO`, 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 BABYGECKO specifies the identity within the Solana ecosystem. The description field in the metadata is left empty, indicating that no additional descriptive information has been provided. Overall, the BABY GECKO token is a distinct entity within the Solana network, identifiable by its unique characteristics as outlined by its Solana address.

Transfers

At the time of this report, the transfer transactions of BABY GECKO token are as follows:

Signature	Time	From	To	Amount
2janLLwgK3S9i4okb7k HPBbU4oF3yzrVCsFa cUQdJoc3Mx5ELAj15t aeQ3Lxhyuaouc8jQua WdAahMf8rGdx9NCY	02-16-2024 10:41:14	4G62dtouiZs4U 829TBA7br4wR odQ9M9CfTPe UeEHoFsE	HKv2xtfs1hHWX uqM3GixA7kV7H w7ZMhqJuLb4Ti p5a3a	960,000,000 BABY GECKO (BABYGECKO)

Transactions

At the time of this report, the transactions of BABY GECKO token are as follows:

Signature	Block	Time	Instructions	By	Fee (SOL)
2janLLwgK3S9i4okb7k HPBbU4oF3yzrVCsFa cUQdJoc3Mx5ELAj15t aeQ3Lxhyuaouc8jQua WdAahMf8rGdx9NCY	#248513124	02-16-202 4 10:41:14	Compute Budget: Set Compute Unit Price, Compute Budget: Set Compute Unit Limit, Unknown	4G62dtouiZs 4U829TBA7 br4wRodQ9 M9CfTPeUe EHoFsE	0.0.000035

Holders

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

#	Address	Owner	Quantity	Percentage
1	8whHHJG7W6JiSgvQQ7KEthvTu4x9eN2SyVe53keBTfXE	HKv2xtfs1hHWXuqM3GixA7kV7Hw7ZMhqJuLb4Tip5a3a	960,000,000	96%
2	BYyaRyciBLspwDw5Q1JZMMXMuhi6FVCptp1xJrdT4jci	4G62dtouiZs4U829TBA7br4wRodQ9M9CfTPeUeEHoFsE	40,000,000	4%

Metadata

MetaplexMetadata

The MetaplexMetadata provided outlines the specifics for "BABY GECKO" token with BABYGECKO symbol, a unique digital asset on the Solana blockchain. The metadata encapsulates essential details that facilitate the asset's integration and functionality within the Solana ecosystem. The `updateAuthority` field specifies the account with privileges to alter this metadata, identified by the public key `4G62dtouiZs4U829TBA7br4wRodQ9M9CfTPeUeEHoFsE`. Additionally, the mint attribute declares the account `DsUTWSt3gT4tkaEBK9uJHPVgNuKzquCpoQkeCPcfh3Si` with privileges to mint tokens.

```
{
  "key": 4,
  "updateAuthority": "4G62dtouiZs4U829TBA7br4wRodQ9M9CfTPeUeEHoFsE",
  "mint": "DsUTWSt3gT4tkaEBK9uJHPVgNuKzquCpoQkeCPcfh3Si",
  "data": {
    "name": "BABY GECKO",
    "symbol": "BABYGECKO",
    "uri": "Small BABYGECKO",
    "sellerFeeBasisPoints": 0
  },
  "primarySaleHappened": 0,
  "isMutable": 0,
  "editionNonce": 252,
  "tokenStandard": 2
}
```

Metadata description

The `data` section of the metadata reveals the asset's `name` "BABY GECKO", its trading `symbol` "BABYGECKO", and a `URI` labeled "Small BABYGECKO". Notably, the asset is set with a zero seller fee basis points, indicating no transaction fee for trading. The metadata flags the asset as not having undergone its primary sale yet (`primarySaleHappened` : 0), and it is marked as non-mutable (`isMutable` : 0), meaning once set, the metadata cannot be changed. An `editionNonce` of 252 suggests a specific edition, and it adheres to a particular token standard within the Solana network (`tokenStandard` : 2), ensuring compatibility and standardization across the platform. This comprehensive metadata structure provides a clear snapshot of "BABY GECKO's" attributes and its operational framework by utilizing the Metaplex ecosystem on Solana.

Field	Value	Description
key	4	Account discriminator that identifies the type of metadata account
updateAuthority	4G62dtouiZs4U829 TBA7br4wRodQ9M 9CfTPeUeEHoFsE	The public key that is allowed to update this account
mint	DsUTWSt3gT4tkaE BK9uJHPVgNuKzq uCpoQkeCPcfh3Si	The public key of the Mint Account it derives from
Name	BABY GECKO	The on-chain name of the token
Symbol	BABYGECKO	The on-chain symbol of the token
Uri	Small BABYGECKO	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	0	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

Expected Token Distribution

At the time of this report, the project's expected token distribution for ANT coin token is outlined as follows:

Category	Percentage	Total Tokens
Liquidity	95%	950,000,000
Cex Listing	5%	50,000,000

Initial Minted Supply 1,000,000,000 BABYGECKO

Cex Listing
5.0%
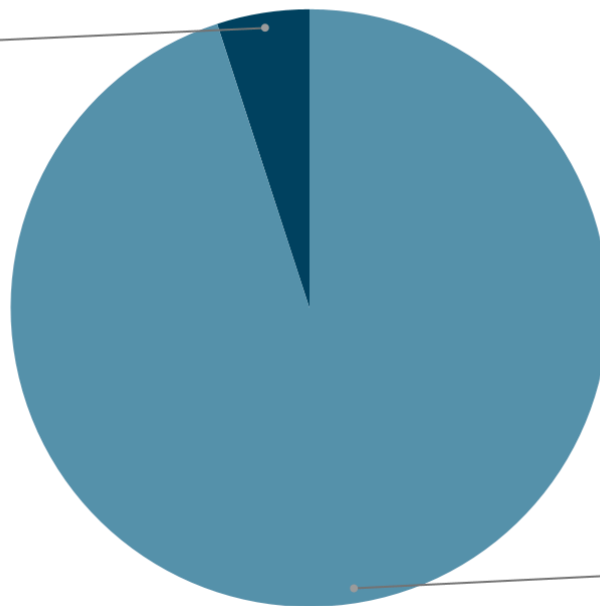
Liquidity
95.0%

Findings Breakdown
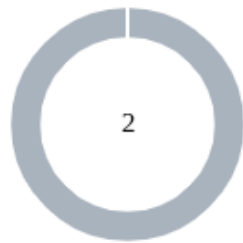
● Critical	0
● Medium	0
● Minor / Informative	2

Severity	Unresolved	Acknowledged	Resolved	Other
● Critical	0	0	0	0
● Medium	0	0	0	0
● Minor / Informative	2	0	0	0

Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	CR	Centralization Risk	Unresolved
●	MAM	Minting Authority Misinterpretation	Unresolved

CR - Centralization Risk

Criticality	Minor / Informative
Location	BABYGECKO
Status	Unresolved

Description

The token account `8whHHJG7W6JiSgvQQ7KEthvTu4x9eN2SyVe53keBTfXE` , owned by the account address `HKv2xtfs1hHWXuqM3GixA7kV7Hw7ZMhqJuLb4Tip5a3a` , holds a huge supply of the BABY GECKO token. Following the deployment, all tokens were transferred to this single account. Consequently, this address now owns the 96 % of the token supply, amounting to 960,000,000 `BABYGECKO` tokens. This concentration of 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.

MAM - Minting Authority Misinterpretation

Criticality	Minor / Informative
Location	BABYGECKO
Status	Unresolved

Description

The contract is currently set up in a manner that may lead to confusion regarding the token's supply capabilities. As indicated by the Solana Explorer for the token address `DsUTWSt3gT4tkaEBK9uJHPVgNuKzquCpoQkeCPcfh3Si` , the mint authority has been assigned to the System Program (`11111111111111111111111111111111`). This assignment typically signifies that the ability to mint new tokens has been intentionally disabled or renounced, as the authority is transferred to an address that cannot be controlled by any external operator (Externally Owned Account). Despite this, the token's minting capability is not explicitly disabled, leading to the token's supply being labeled as `Current` rather than `Fixed` in the Solana Explorer. This discrepancy can mislead users or platforms interacting with the token into believing that the supply is not permanently set and could potentially be altered in the future.

```
Current Supply     1,000,000,000
Mint Authority     System Program: 11111111111111111111111111111111
```

Recommendation

It is recommended to explicitly disable the minting functionality instead of merely transferring the mint authority to an uncontrolled address. This action would involve altering the token's smart contract to ensure that no new tokens can be minted under any circumstances, thereby permanently fixing the token's supply. Implementing this change would provide clear and unambiguous information regarding the token's supply status, ensuring that it is displayed as `Fixed` in the Explorers and other platforms. This clarity is crucial for users and platforms that rely on the immutability of the token's supply for their operations and investment decisions, fostering a more transparent and trustful environment.

Summary

The BABY GECKO 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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The Cyberscope team

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