



Building the Futuristic **Blockchain Ecosystem**

SECURITY AUDIT REPORT

ASTROPUP

TOKEN OVERVIEW

Risk Findings

Severity	Found
● High	2
● Medium	0
● Low	0
● Informational	1

Centralization Risks

Owner Privileges	Description
● Can Owner Set Taxes ?	Not Detected
● Owner needs to enable trading ?	Yes, owner needs to enable trades
● Does Owner needs to manually list ?	Yes, owner needs to manually set LP
● Can Owner Mint ?	Not Detected
● Can Owner Blacklist ?	Not Detected
● Can Owner Freeze Authority ?	Not Detected
● Can Owner Update Metadata ?	Yes

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OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

Audit Result	Passed with High Risk
Audit Date	23 March 2024

CONTRACT DETAILS

Token Address:

DtEDeShrXDLjbazZsHaVSXUpXu1qFvUr7wkf83ib68hX

Name: ASTROPUP

Symbol: APUP

Current Supply: 9,999,800,000.00

Total Unlocked: 9,999,800,000.00

Decimals: 9

Fees: 0%

Network: SolScan

Token Type: Solana

Owner:

51S5us2CjgnPLDfc4gzWDjltZuoZNtxhdTyrmMpHkaNS

METADATA RESULTS

Name	ASTROPUP
Symbol	APUP
Key	4
UpdateAuthority	51S5us2CjgnPLDfc4gzWDjltZuoZNtxhdTyrMmPHkaNS
Mint	DtEDeShrXDLjbazZsHaVSXUpXu1qFvUr7wkf83ib68hX
Uri	https://bafkreiafnnpqz3age3ke2rwn6mtirptucrcu2ipr7ffb5efjeipx4ty5ay.ipfs.nftstorage.link
SellerFeeBasisPoints	0
PrimarySaleHappened	1
IsMutable	1
EditionNonce	255
TokenStandard	2

METAPLEX METADATA

Metadata on the Solana blockchain serves as supplementary data for a digital asset or Non-Fungible Token (NFT), encompassing details such as the asset's name, description, image, attributes, and other significant information that offers a comprehensive description of the asset.

Within the Solana network, this metadata typically takes the form of JSON files linked to the asset via its distinct identifier, or token ID. The aim of this metadata is to furnish crucial insights about the asset, thereby improving user and application interaction with and comprehension of the asset.

Metaplex Metadata (on-chain data)

View URI Metadata

```
{
  "root": {
    "key": 4,
    "updateAuthority": "51S5us2CjgnPLDfc4gzWDj1tZuoZNTxhdTyrmMpHkaNS",
    "mint": "DTEDeShrXDLjbazZsHaVSXUpXu1qFvUr7wkf83ib68hX",
    "data": {
      "name": "ASTROPUP",
      "symbol": "APUP",
      "uri": "https://bafkreiafnnpqz3age3ke2rwn6mtirptucrcu2ipr7ffb5efjeipx4ty5ay.ipfs.nftstorage.link",
      "sellerFeeBasisPoints": 0
    },
    "primarySaleHappened": 1,
    "isMutable": 1,
    "editionNonce": 255,
    "tokenStandard": 2,
    "name": "ASTROPUP",
    "symbol": "APUP"
  }
}
```

URI METADATA

In the Solana ecosystem, URI metadata refers to the data associated with a token that can be retrieved using its Uniform Resource Identifier (URI).

URI For Dev is Missing :

<https://bafkreiafnnpqz3age3ke2rwn6mtirptucrcu2ipr7ffb5efjeipx4ty5ay.ipfs.nftstorage.link/>

Metadata is retrieved from token's URI: <https://bafkreiafnnpqz3age3ke2rwn6mtirptucrcu2ipr7ffb5efjeipx4ty5ay.ipfs.nftstorage.link>

View Metaplex Metadata

```
{
  "root": {
    "name": "ASTROPUP",
    "symbol": "APUP",
    "image": "https://bafkreihnodxlqbdk3gszvk65solpxmqgvi4gbxgru2eptxk63xe54hf7u.ipfs.nftstorage.link",
    "description": "Get ready to blast off with AstroPup (APUP), the coolest meme coin in the galaxy! This little space-loving pup is on a mission to explore the crypto universe and bring some serious fun to the Solana (SOL) network. AstroPup is like a cosmic cocktail of cute and crazy, mixing the adorable charm of a puppy with the mind-blowing wonders of space. It's a match made in the stars, and trust us, it's going to be a wild ride! Picture this: a brave little pup in a space suit, zooming through the galaxy on a rocket powered by memes and good vibes. That's AstroPup in a nutshell! With this coin, you're not just investing in a cryptocurrency – you're joining a community of fun-loving, meme-obsessed space cadets. AstroPup is all about bringing people together through the power of laughter and the magic of space. We've got big plans for this little pup, including space-themed games, collectibles, and merch that'll make you say, 'I need that in my life!' So, if you're ready to have a blast and join the",
    "extensions": {
      "website": "www.apup.xyz",
      "twitter": "https://twitter.com/astropup_coin",
      "telegram": "https://t.me/Astropup_coin",
      "discord": "https://t.me/Astropup_coin",
      "description": ""
    }
  }
}
```


AUDIT METHODOLOGY

Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed

RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warnings that can remain unfixed.

Informational

Issues on this level are minor details and warnings that can remain unfixed.

MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standards.

Vulnerabilities are divided into three primary risk categories:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity				
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Note	Low	Medium
		LOW	MEDIUM	HIGH
	Likelihood			

HIGH RISK FINDING

Centralization – Enabling Trades

Severity: **High**

Function: Manual Liquidity Pool Creation

Status: Open

Overview:

This Solana blockchain project, needs to manually establish their liquidity pool (LP), since it lacks an automatic system for setting up liquidity pools.

This requirement for a manual process to add LP can present risks to investors.

Suggestion:

Automated market maker (AMM) like Raydium can be used to provide liquidity.

HIGH RISK FINDING

Centralization/Privilege

Severity: High

Function: Initial Distribution of Tokens

Status: Open

Overview:

When the smart contract is deployed, the full supply of tokens is assigned to the deployer, leading to a considerable risk of centralization.

This situation is concerning because it gives the deployer the power to allocate tokens without obtaining community agreement.

Suggestion:

It is advisable for the team to maintain transparency and openness about the initial token distribution process or lock their tokens with a renowned Solana token locker.

INFORMATIONAL & OPTIMIZATIONS

Optimization

Severity: Informational

Subject: Token Metadata Update

Status: Open

Overview:

Metadata includes the token's name, symbol, image, and other relevant details. The power to modify this metadata lies with the token contract's owner or another appointed authority, separate from the mint authority's functions.

Suggestion:

The `updateAuthority` possesses the ability to alter the metadata of a token, covering aspects such as its name, symbol, and logo. While such modifications are uncommon, it is crucial to acknowledge the existence of this capability.

ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up. Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

 www.expelee.com

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expelee

Building the Futuristic **Blockchain Ecosystem**

DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantess against the sale of team tokens or the removal of liquidity by the project audited in this document.

Always do your own research and project yourselves from being scammed. The Expelee team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools.

Under no circumstances did Expelee receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Alway do your own research and protect yourselves from scams.

This document should not be presented as a reason to buy or not buy any particular token. The Expelee team disclaims any liability for the resulting losses.

The logo for Expelee, featuring the word "expelee" in a stylized font. The "ex" is in white, and "pelee" is in orange. The letters are bold and modern.

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