



Building the Futuristic **Blockchain Ecosystem**

SECURITY AUDIT REPORT

Ducky Duck

TOKEN OVERVIEW

Risk Findings

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

Centralization Risks

Owner Privileges	Description
● Can Owner Set Taxes ?	Not Detected
● Owner needs to enable trading ?	Not Detected
● Does Owner needs to manually list ?	Not Detected
● 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
Audit Date	22 Feb 2024

CONTRACT DETAILS

Token Address: 6PAfWTBKxATlwY5hqeQwBJ9axCzScUukSJiUdnTu3ZPJ

Name: Ducky Duck

Symbol: DUCKY

Current Supply: 1,000,000,000.00

Unlocked: 31,198,907.50 (3.11%)

Decimals: 9

Fees: 0%

Network: Solana

Owner: Renounced

Update Authority:

EWCQ9Wy5BeorNksp8lUeBCNgtf9a5Aqao88mxLJC6xHM

Listing On: Raydium AMM V4

METADATA RESULTS

key: 4

update Authority: EWCQ9Wy5BeorNksp81UeBCNgtf9a5Aqao88mxLJC6xHM

mint: 6PAfWTBKxATlwY5hqe qwBJ9axCzScUukSJiUdnTu3ZPJ

name: Ducky Duck

symbol: DUCKY

Uri: <https://cdn.pinksale.finance/file/pinksale-metadata/tokens/1740097293026-51540d18cdda5c8ff044ec7b68961700.json>

sellerFeeBasisPoints: 0

Address: EWCQ9Wy5BeorNksp81UeBCNgtf9a5Aqao88mxLJC6xHM

verified: 1

Share: 100

primarySaleHappened: 0

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.

```
{ 8 items
  key : 4
  updateAuthority : "EWCQ9Wy5BeorNksp81UeBCNgtf9a5Aqao88mxLJC6xHM"
  mint : "6PAfWTBKxAT1wY5hqeQwBJ9axCzScUukSJiUdnTu3ZPJ"
  data : { 5 items
    name : "Ducky Duck"
    symbol : "DUCKY"
    uri : "https://cdn.pinksale.finance/file/pinksale-metadata/tokens/1740097293026-51540d1 ..."
    sellerFeeBasisPoints : 0
    creators : [ 1 item
      0 : { 3 items
        address : "EWCQ9Wy5BeorNksp81UeBCNgtf9a5Aqao88mxLJC6xHM"
        verified : 1
        share : 100
      }
    ]
  }
  primarySaleHappened : 0
  isMutable : 1
  editionNonce : 255
  tokenStandard : 2
}
```

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:

<https://cdn.pinksale.finance/file/pinksale-metadata/tokens/1740097293026-51540d18cdda5c8ff044ec7b68961700.json>

```
▼ { 6 items
  name : "Ducky Duck"
  symbol : "DUCKY"
  description : "Hello, my name is Ducky and I love to dance!"
  image : "https://photos.pinksale.finance/file/pinksale-logo-upload/1740096997556-be539af3 ..."
  ▼ creator : { 2 items
    name : "PinkSale"
    site : "https://www.pinksale.finance"
  }
  ▼ extensions : { 3 items
    telegram : "https://t.me/duckyduck_dance"
    twitter : "https://x.com/duckyduck_dance?s=21"
    website : "https://duckyduck.xyz/"
  }
}
```


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 standarts.

Vulnerabilities are dividend into three primary risk categroies:

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			

MEDIUM RISK FINDING

Centralization – Metadata Update

Severity: **Medium**

function: Token metadata

Status: Open

Overview:

Metadata of a token includes details such as its name, symbol, image, and other relevant information.

The authority to modify this metadata resides with the owner of the token contract.

Suggestion

The updateAuthority holds the power to alter the token metadata, including aspects like the name, symbol, and logo.

While changes of this nature are uncommon, it is important to acknowledge that they can occur.

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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