



# SECURITY ASSESSMENT Cobra King TOKEN

May 23, 2024

Audit Status: Pass














BLADE POOL

# RISK ANALYSIS | Cobra King.

## ■ Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 High	Be Careful or Fail test.
 Medium	Improve is needed.
 Low	Pass, Not-Detected or Safe Item.
 Informational	Function Detected

## ■ Manual Code Review Risk Results

Contract Security	Description
 Buy Tax	0%
 Sale Tax	0%
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	0%
 Modify Tax	Yes
 Fee Check	Pass
 Is Honeypot?	Not Detected
 Trading Cooldown	Not Detected
 Enable Trade?	True
 Pause Transfer?	Not Detected

[illegible]

Contract Security	Description
<div><div></div> Max Tx?</div>	Pass
<div><div></div> Is Anti Whale?</div>	Not Detected
<div><div></div> Is Anti Bot?</div>	Not Detected
<div><div>i</div> Is Blacklist?</div>	Not Detected
<div><div></div> Blacklist Check</div>	Pass
<div><div></div> is Whitelist?</div>	Pass
<div><div></div> Can Mint?</div>	Pass
<div><div></div> Is Proxy?</div>	Not Detected
<div><div></div> Can Take Ownership?</div>	Not Detected
<div><div></div> Hidden Owner?</div>	Not Detected
<div><div>i</div> Owner</div>	BPFLoader21111111111111111111111111111111
<div><div></div> Self Destruct?</div>	Not Detected
<div><div></div> External Call?</div>	Not Detected
<div><div></div> Other?</div>	Not Detected
<div><div></div> Holders</div>	2,145+
<div><div></div> Audit Confidence</div>	Medium
<div><div></div> Authority Check</div>	Pass
<div><div></div> Freeze Check</div>	Pass

The summary section reveals the strengths and weaknesses identified during the assessment, including any vulnerabilities or potential risks that may exist. It serves as a valuable snapshot of the overall security status of the audited project. However, it is highly recommended to read the entire security assessment report for a comprehensive understanding of the findings. The full report provides detailed insights into the assessment process, methodology, and specific recommendations for addressing the identified issues.

CFG.NINJAPage 2 of 19



## Cobra King

### Executive Summary

#### TYPES

DeFi

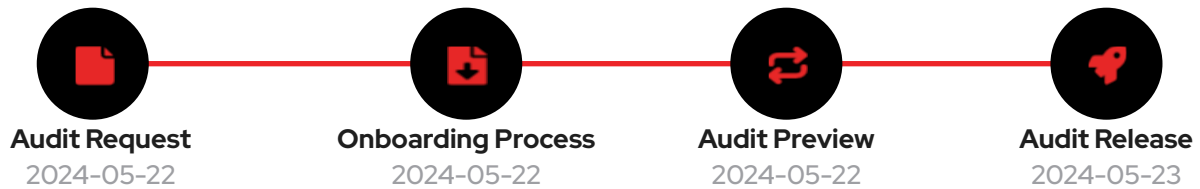
#### ECOSYSTEM

Solana

#### LANGUAGE

RUST

### Timeline



### Vulnerability Summary



0

Total Findings

0

Resolved

0

Pending

0

Unresolved

#### 0 Critical

Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.

#### 0 High

High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.

#### 0 Medium

Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.

#### 0 Low

Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.

#### 0 Informational

Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

# PROJECT OVERVIEW | Cobra King.

## Token Summary

Parameter	Result
Address	4uJCVLoLqQARTHiroKe45dAtcnrmcdfZgEEf55t1kMSR
Name	Cobra King
Token Tracker	Cobra King (COB)
Decimals	8
Supply	50,000,000,000
Platform	Solana
Compiler	v0.8.3+commit.8d00100c
Contract Name	Cobra King
Optimization	Yes with 200 runs
LicenseType	Unlicensed
Language	RUST
Codebase	<a href="https://solscan.io/token/4uJCVLoLqQARTHiroKe45dAtcnrmcdfZgEEf55t1kMSR#metadata">https://solscan.io/ token/4uJCVLoLqQARTHiroKe45dAtcnrmcdfZgEEf55t1kMSR#metadata</a>

## Advance Verification

Parameter	Result
Transfer From Owner	Pass
Transfer From Holder	Pass
Add Liquidity	Pass
RemoveLiquidity	Pass
Buy from Owner	Pass
Buy from Holder	Pass
Sale from Owner	Pass
Sale from Holder	Pass
SwapAndLiquify	Pass
LaunchPad	PinkSale

The following is a simulation of the contract in our local testnet or using one of the public testnet environments, this is to ensure the contract operations are fully functional and that are able to pass the specific launchpad criterias. While this section may be a pass, please understand you need to review all other details of the project. Always DYOR.

## Main Contract Assessed

Name	Contract	Live
Cobra King	4uJCvLoLqQARTHiroKe45dAtcnrmcdfZgEEf55t1kMSR	No

## TestNet Contract Was Not Assessed

## Solidity Code Provided

SolidID	File Sha-1	FileName
Cobra King	N/A	COB.sol
Cobra King		
Cobra King		
Cobra King		
Cobra King		
Cobra King		

# PROJECT OVERVIEW | Cobra King.

## Token Summary - Solana

Parameter	Result
Address	4uJCVLoLqQARTHiroKe45dAtcnrmcdfZgEEf55t1kMSR
Name	Cobra King
Token Tracker	Cobra King (COB)
Decimals	8
Supply	50,000,000,000
Platform	Solana
Program	TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA
Creator Name	Pinksale
Creation Site	<a href="https://pinksale.finance">https://pinksale.finance</a>
Language	RUST
Image	<a href="https://cobraking.meme/wp-content/uploads/2024/01/Slider-object-2c.png">https://cobraking.meme/wp-content/uploads/2024/01/Slider-object-2c.png</a>
Metadata File Type	JSON
Solana Source	<a href="https://nftstorage.link/ipfs/bafkreicvnqykay4dz3ta2xpoq6az6c5d7elhxtpb7e2ck2hut5uvmatbl4">https://nftstorage.link/ipfs/bafkreicvnqykay4dz3ta2xpoq6az6c5d7elhxtpb7e2ck2hut5uvmatbl4</a>



# PROJECT OVERVIEW | Cobra King.

## Metaplex Metadata (on-chain data)

Solana metadata refers to the additional information associated with a digital asset or NFT (Non-Fungible Token) on the Solana blockchain. It includes details such as the name, description, image, attributes, and other relevant data about the asset.

In the context of Solana, metadata is typically stored in a JSON format and is linked to the asset's unique identifier or token ID. This metadata provides important information about the asset, allowing users and applications to understand and interact with it.

Solana metadata can be used for various purposes, including displaying asset information in marketplaces, creating rich visual representations of NFTs, and enabling advanced functionalities like royalties, provenance tracking, and interoperability across different platforms.

It's worth noting that the specific structure and content of Solana metadata can vary depending on the project or application that utilizes the Solana blockchain.

```
{ 8 items
  key : 4
  updateAuthority : "6CChMQBHXA71m7H53ouZpwQdewzepq96chmE7iUMwepa"
  mint : "4uJCVLoLqQARTHiroKe45dAtcnrmcdfZgEEf55t1kMSR"
  data : { 5 items
    name : "Cobra King"
    symbol : "COB"
    uri : "https://nftstorage.link/ipfs/bafkreicvnqykay4dz3ta2xpoq6az6c5d7e1hxtpb7e2ck2hut5 ..."
    sellerFeeBasisPoints : 0
    creators : [ 1 item
      0 : { 3 items
        address : "6CChMQBHXA71m7H53ouZpwQdewzepq96chmE7iUMwepa"
        verified : 1
        share : 100
      }
    ]
  }
  primarySaleHappened : 0
  isMutable : 1
  editionNonce : 255
  tokenStandard : 2
}
```

## COB | Metadata Results.

Parameter	Value	Description
key	4	This is an integer value (int4) that represents the key associated with the root object.
updateAuthority	6CChMQBHXA71m7H53o uZpWQdewzepq96chmE7i UMwepa	This is a string value that represents the update authority for the program.
mint	4uJCVLoLqQARTHiroKe4 5dAtcnrmcdfZgEEf55t1kM SR	This is a string value that represents the mint address for the program.
name	Cobra King	This is a string value that represents the name of the token.
symbol	COB	This is a string value that represents the symbol of the token.
uri	https://nftstorage.link/ ipfs/bafkreicvnqykay4dz3t a2xpoq6az6c5d7elhxtpb7 e2ck2hut5uvmatbl4	This is a string value that represents the URI (Uniform Resource Identifier) of the token.
sellerFeeBasisPoints	0	This is an integer value (int0) that represents the seller fee basis points for the token
primarySaleHappened	0	This is an integer value (int0) that indicates whether the primary sale of the token has happened.
isMutable	1	This is an integer value (int1) that indicates whether the token is mutable. The specific value is 1, which suggests that the token is mutable. and 0 suggest is not mutable.
editionNonce	255	This is an integer value (int255) that represents the edition nonce for the token.
tokenStandard	2	This is an integer value (int2) that represents the token standard for the program.

# PROJECT OVERVIEW | Cobra King.

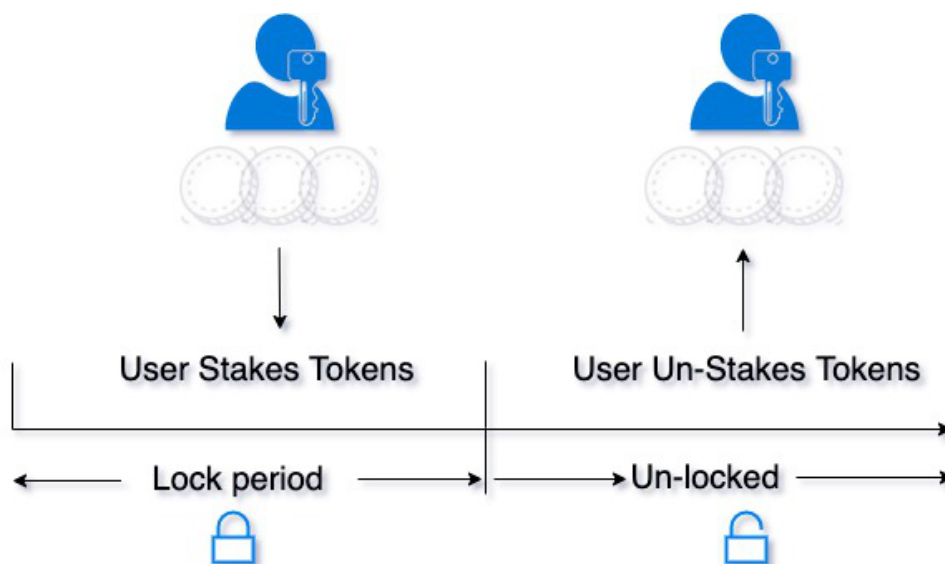
## URI Metadata

URI metadata in Solana refers to the metadata associated with a token that is retrieved from its URI (Uniform Resource Identifier). In this case, the token's URI is <https://nftstorage.link/ipfs/bafkreicvnqykay4dz3ta2xpoq6az6c5d7elhxtpb7e2ck2hut5uvmatbl4>.

```
▼ { 6 items
  name : "Cobra King"
  symbol : "COB"
  description : "$COBRAKING is designed to provide both entertainment and value. Governed by a De ..."
  image : "https://cobraking.meme/wp-content/uploads/2024/01/Slider-object-2c.png"
  ▼ creator : { 2 items
    name : "PinkSale"
    site : "https://pinksale.finance"
  }
  ▼ extensions : { 4 items
    telegram : "https://t.me/cobrakingtoken"
    twitter : "https://twitter.com/cobraking_meme"
    website : "https://cobraking.meme/"
    discord : "https://discord.gg/QWqDD8kHCn"
  }
}
```

## What is a Staking Contract?

A smart contract which allows users to stake and un-stake a specified ERC20 token. Staked tokens are locked for a specific length of time (set by the contract owner at the outset). Once the time period has elapsed, the user can remove their tokens again.

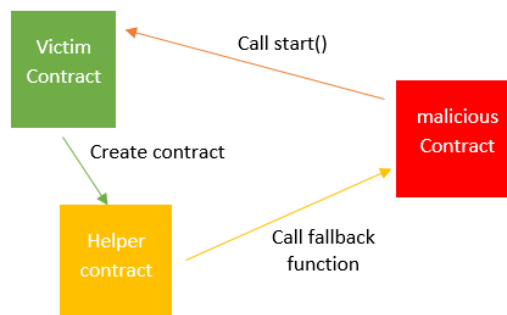


## Reentrancy Check

**The Project Owners of Cobra King have implemented Reentrancy Guard Library**

**The Team has done a great job to avoid potential reentrancy issues in the contract.**






**You can read more about the reentrancy library used. [ReentrancyGuard](#)**



## TECHNICAL FINDINGS **Cobra King.**

Smart contract security audits classify risks into several categories: Critical, High, Medium, Low, and Informational. These classifications help assess the severity and potential impact of vulnerabilities found in smart contracts.






### Classification of Risk

Severity	Description
 Critical	Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.
 High	High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.
 Medium	Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.
 Low	Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.
 Informational	Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

By categorizing risks into these classifications, smart contract security audits can prioritize the resolution of critical and high-risk vulnerabilities to ensure the contract's overall security and protect user funds and data.

## FINDINGS

In this document, we present the findings and results of the smart contract security audit. The identified vulnerabilities, weaknesses, and potential risks are outlined, along with recommendations for mitigating these issues. It is crucial for the team to address these findings promptly to enhance the security and trustworthiness of the smart contract code.

Severity	Found	Pending	Resolved
 Critical	0	0	0
 High	0	0	0
 Medium	0	0	0
 Low	0	0	0
 Informational	0	0	0
Total	0	0	0

In a smart contract, a technical finding summary refers to a compilation of identified issues or vulnerabilities discovered during a security audit. These findings can range from coding errors and logical flaws to potential security risks. It is crucial for the project owner to thoroughly review each identified item and take necessary actions to resolve them. By carefully examining the technical finding summary, the project owner can gain insights into the weaknesses or potential threats present in the smart contract. They should prioritize addressing these issues promptly to mitigate any risks associated with the contract's security. Neglecting to address any identified item in the security audit can expose the smart contract to significant risks. Unresolved vulnerabilities can be exploited by malicious actors, potentially leading to financial losses, data breaches, or other detrimental consequences. To ensure the integrity and security of the smart contract, the project owner should engage in a comprehensive review process. This involves understanding the nature and severity of each identified item, consulting with experts if needed, and implementing appropriate fixes or enhancements. Regularly updating and maintaining the smart contract's codebase is also essential to address any emerging security concerns. By diligently reviewing and resolving all identified items in the technical finding summary, the project owner can significantly reduce the risks associated with the smart contract and enhance its overall security posture.

## SOCIAL MEDIA CHECKS | Cobra King.

Social Media	URL	Result
Website	<a href="https://cobraking.meme/">https://cobraking.meme/</a>	Pass
Telegram	<a href="https://t.me/cobrakingtoken">https://t.me/cobrakingtoken</a>	Pass
Twitter	<a href="https://twitter.com/cobraking_meme">https://twitter.com/cobraking_meme</a>	Pass
Facebook		N/A
Reddit	N/A	N/A
Instagram	N/A	N/A
CoinGecko	N/A	N/A
Github	N/A	Pass
CMC	N/A	N/A
Email	N/A	Contact
Other	<a href="https://discord.gg/QWqDD8kHCn">https://discord.gg/QWqDD8kHCn</a>	Pass

From a security assessment standpoint, inspecting a project's social media presence is essential. It enables the evaluation of the project's reputation, credibility, and trustworthiness within the community. By analyzing the content shared, engagement levels, and the response to any security-related incidents, one can assess the project's commitment to security practices and its ability to handle potential threats.

### Social Media Information Notes:

**Auditor Notes:** Website looks good but definitely think about possibly putting a flash warning? The flashes start to hurt someone's eyes after a few minutes on it.

### Project Owner Notes:



## ASSESSMENT RESULTS | Cobra King.

### Score Results

Review	Score
Overall Score	84/100
Auditor Score	85/100

Review by Section	Score
Manual Scan Score	14
SWC Scan Score	37
Advance Check Score	33

Our security assessment or audit score system for the smart contract and project follows a comprehensive evaluation process to ensure the highest level of security. The system assigns a score based on various security parameters and benchmarks, with a passing score set at 80 out of a total attainable score of 100. The assessment process includes a thorough review of the smart contracts codebase, architecture, and design principles. It examines potential vulnerabilities, such as code bugs, logical flaws, and potential attack vectors. The evaluation also considers the adherence to best practices and industry standards for secure coding. Additionally, the system assesses the projects overall security measures, including infrastructure security, data protection, and access controls. It evaluates the implementation of encryption, authentication mechanisms, and secure communication protocols. To achieve a passing score, the smart contract and project must attain a minimum of 80 points out of the total attainable score of 100. This ensures that the system has undergone a rigorous security assessment and meets the required standards for secure operation.



## Important Notes for COB

- One or two vulnerabilities were found.
- Contract by DEXLAB MINTING LAB.

**Auditor Score =85**  
**Audit Passed**



## Appendix

### Finding Categories

#### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

#### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

#### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

#### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

#### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

#### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

#### Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

#### Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.

## Disclaimer

The purpose of this disclaimer is to outline the responsibilities and limitations of the security assessment and smart contract audit conducted by Bladepool/CFG NINJA. By engaging our services, the project owner acknowledges and agrees to the following terms:

1. Limitation of Liability: Bladepool/CFG NINJA shall not be held liable for any damages, losses, or expenses incurred as a result of any contract malfunctions, vulnerabilities, or exploits discovered during the security assessment and smart contract audit. The project owner assumes full responsibility for any consequences arising from the use or implementation of the audited smart contract. 2. No Guarantee of Absolute Security: While Bladepool/CFG NINJA employs industry-standard practices and methodologies to identify potential security risks, it is important to note that no security assessment or smart contract audit can provide an absolute guarantee of security. The project owner acknowledges that there may still be unknown vulnerabilities or risks that are beyond the scope of our assessment. 3. Transfer of Responsibility: By engaging our services, the project owner agrees to assume full responsibility for addressing and mitigating any identified vulnerabilities or risks discovered during the security assessment and smart contract audit. It is the project owner's sole responsibility to ensure the proper implementation of necessary security measures and to address any identified issues promptly. 4. Compliance with Applicable Laws and Regulations: The project owner acknowledges and agrees to comply with all applicable laws, regulations, and industry standards related to the use and implementation of smart contracts. Bladepool/CFG NINJA shall not be held responsible for any non-compliance by the project owner. 5. Third-Party Services: The security assessment and smart contract audit conducted by Bladepool/CFG NINJA may involve the use of third-party tools, services, or technologies. While we exercise due diligence in selecting and utilizing these resources, we cannot be held liable for any issues or damages arising from the use of such third-party services. 6. Confidentiality: Bladepool/CFG NINJA maintains strict confidentiality regarding all information and data obtained during the security assessment and smart contract audit. However, we cannot guarantee the security of data transmitted over the internet or through any other means. 7. Not a Financial Advice: Bladepool/CFG NINJA please note that the information provided in the security assessment or audit should not be considered as financial advice. It is always recommended to consult with a financial professional or do thorough research before making any investment decisions.

By engaging our services, the project owner acknowledges and accepts these terms and releases Bladepool/CFG NINJA from any liability, claims, or damages arising from the security assessment and smart contract audit. It is recommended that the project owner consult legal counsel before entering into any agreement or contract.

