



# Smart Contract Security Audit

**Project: CyberDoge**

Oct 29, 2022



**Contract Address**

0x3D6ACD0b6aBf7817ff8040b8892B0F8d783E46A1

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## Disclaimer

The contents of this report reflect only the CRACKEN TECH audit team's understanding of the current progress and status of the security of the code audited, to verify the integrity of the code provided for the scope of this audit. You agree that your access and/or use, including but not limited to any associated services, products, protocols, platforms, content, and materials, will be at your sole risk. Given the size of the project, the findings detailed here are not to be considered exhaustive, and further testing and audit are recommended after the issues covered are fixed. We do not warrant, endorse, guarantee, or assume responsibility for any product or service advertised or offered by a third party through the product, any open source or third-party software, code, libraries, materials, or information linked to, called by, referenced by or accessible through the report, its content, and the related services and products, any hyperlinked websites, any websites or mobile applications appearing on any advertising, and we will not be a party to or in any way be responsible for monitoring any transaction between you and any third-party providers of products or services.

All information provided in this report does not constitute financial or investment advice, nor should it be used to signal that any persons reading this report should invest their funds without sufficient individual due diligence regardless of the findings presented in this report.

The review does not address the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. If the audited source files are smart contract files, risks or issues introduced by using data feeds from off-chain sources are not extended by this review either.

## Audit Review

The source code of the CyberDoge was audited in order to acquire a clear impression of how the project was implemented. The Cracken Tech audit team conducted in-depth research, analysis, and scrutiny, resulting in a series of observations. A detailed list of each issue found, and vulnerabilities in the source code will be included in the audit report. The problems and potential solutions are given in this report, we will identify common sources for such problems and comments for improvement.

The auditing process will follow a routine as special considerations by Cracken:

- Review of the specifications, sources, and instructions provided to Cracken to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Cracken describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
- Symbolic execution is analyzing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.

## Project Review

### Token Summary

Parameter	Result
Token Name	CyberDoge
Token Symbol	CyberDoge
Token Decimal	18
Total Supply	100,000,000
Platform	BSC
Buy Tax Fee	2%
Sell Tax Fee	2%
Contract Creation Date	Oct 28, 2022
Liquidity Status	Not available when audit
Liquidity Lockup Time	Not available when audit
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	Yes with 200 runs
Contract Address	0x3D6ACD0b6aBf7817ff8040b8892B0F8d783E46A1
Deployer Address	0xCD19bDF3Efb28722ddd59CaD4b86302aB34Fe663
Owner Address	0x8b514a34fdcf0b982ac4d5380e5ebbd2a96caa70

### Source Code

CRACKEN was commissioned by CyberDoge to perform an audit based on the following smart contract:

<https://bscscan.com/address/0x3D6ACD0b6aBf7817ff8040b8892B0F8d783E46A1>





## Smart Contract Vulnerability Checks

Vulnerability	Auto-Scan	Manual-Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	Low / No Risk
Code With No Effects	Complete	Complete	Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	Low / No Risk
Hash Collisions with Multiple Variable Length Arguments	Complete	Complete	Low / No Risk
Unexpected Ether balance	Complete	Complete	Low / No Risk
Presence of unused variables	Complete	Complete	Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	Low / No Risk
Typographical Error	Complete	Complete	Low / No Risk
DoS With Block Gas Limit	Complete	Complete	Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	Low / No Risk
Insufficient Gas Grieving	Complete	Complete	Low / No Risk
Incorrect Inheritance Order	Complete	Complete	Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	Low / No Risk
Requirement Violation	Complete	Complete	Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	Low / No Risk
Authorization through tx. origin	Complete	Complete	Low / No Risk
Delegate call to Untrusted Callee	Complete	Complete	Low / No Risk





Vulnerability	Auto-Scan	Manual-Scan	Result
Use of Deprecated Solidity Functions	Complete	Complete	Low / No Risk
Assert Violation	Complete	Complete	Low / No Risk
Reentrancy	Complete	Complete	Low / No Risk
Unprotected SELF-DESTRUCT Instruction	Complete	Complete	Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	Low / No Risk
Outdated Compiler Version	Complete	Complete	Low / No Risk
Integer Overflow and Underflow	Complete	Complete	Low / No Risk
Function Default Visibility	Complete	Complete	Low / No Risk

## Manual Code Review

### Classification of Issues

Severity	Description
 High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
 Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
 Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
 Informational	A vulnerability that has an informational character but is not affecting any of the code.

### Findings

Severity	Found
 High-Risk	3
 Medium-Risk	0
 Low-Risk	0
 Informational	0
Total	3



● High-Risk: functions make cause the rug or scam project. **Must be fixed.**

## Set max buy / sell tax fee

Description:

**The owner can change the buy & sell fees up to 100%**

**[HIGH-RISK]**

```
function setLPFee(uint256 LPFee) external onlyOwner {
```

```
    _LPFee = LPFee;
```

```
}
```

```
function setMarketingFee(uint256 marketingFee) external onlyOwner {
```

```
    _marketingFee = marketingFee;
```

```
}
```

## Recommendation:

**We recommend adding a requirement to limit the max fee amount.**

● High-Risk: functions make cause the rug or scam project. **Must be fixed.**

## Set trading function is enabled

Description:

**The owner can set close trading [HIGH-RISK]**

```
function closeTrade() external onlyOwner {  
  
    startTradeBlock = 0;  
  
}
```

**Recommendation:**

**We recommend removing the trading function for safety.**

● High-Risk: functions make cause the rug or scam project. **Must be fixed.**

## The blacklist function is enabled

Description:

**The owner can add blacklist users**

**[HIGH-RISK]**

```
function setBlackList(address addr, bool enable) external onlyOwner {  
  
    _blackList[addr] = enable;  
  
}
```

## Recommendation:

**We recommend that the owner should disable the blacklist function.**

## Privileged Functions

onlyOwner

Function Name	Parameters	Visibility
approve	address spender, uint256 amount	Public
claimToken	address token, uint256 amount, address to	External
closeAddLP	None	External
closeTrade	None	External
renounceOwnership	None	Public
setBlackList	address addr, bool enable	External
setBuyBackSwitch	bool _buyBackSwitch	External
setFeeWhiteList	address addr, bool enable	External
setFunAddress	address _fundAddress	External
setLPFee	uint256 LPFee	External
setMarketingFee	uint256 marketingFee	External
setSwapPairList	address addr, bool enable	External
startAddLP	None	External
startTrade	None	External
transfer	address recipient, uint256 amount	External
transferFrom	address sender, address recipient, uint256 amount	Public
transferOwnership	address newOwner	Public

## Contract Ownership

The contract ownership of CyberDoge is not currently being renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0x8b514a34fdcf0b982ac4d5380e5ebbd2a96caa70 which can be viewed: [HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions list above, if the owner wallet is compromised these privileges could be exploited.

We recommend the team renounce ownership at the right time if possible, or gradually migrate to a time lock with governing functionalities in respect of transparency and safety considerations.

## Liquidity Overview

### Liquidity Information

Parameter	Result
Pair Address	Not Available
CyberDoge Reserves	0.00 CyberDoge
BNB Reserves	0.00 BNB
Liquidity Value	\$0.00 USDT
Liquidity Ownership	The token does not have liquidity at the moment of the audit

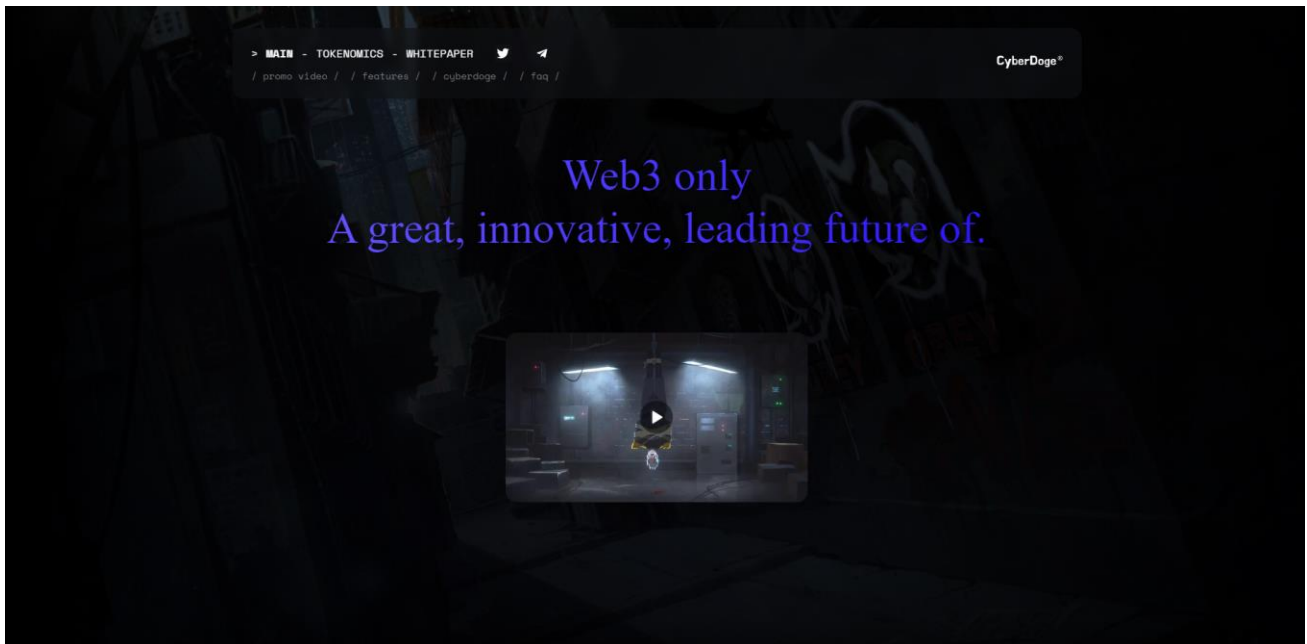
## Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	0x8b514a34fdcf0b982ac4d5380e5ebbd2a96caa70	100,000,000	100.0000%

## Social Media Check

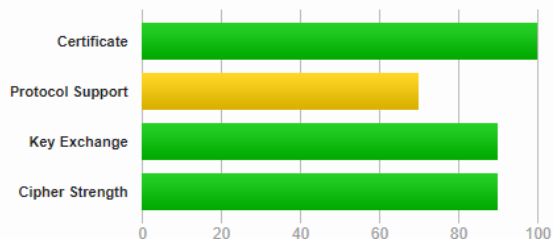
Social Media Type	Link	Result
Website	<a href="https://cyberdoge.world/">https://cyberdoge.world/</a>	Checked
Twitter	<a href="https://twitter.com/CyberDoge_Bsc/">https://twitter.com/CyberDoge_Bsc/</a>	Checked
Telegram	<a href="https://t.me/CyberDogeBstoken/">https://t.me/CyberDogeBstoken/</a>	Checked

## Website Review



### Summary

#### Overall Rating



Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This server supports TLS 1.0 and TLS 1.1. Grade capped to B. [MORE INFO »](#)

## Certificate #1: RSA 2048 bits (SHA256withRSA)



### Server Key and Certificate #1



<b>Subject</b>	cyberdoge.world Fingerprint SHA256: 341a58366fcfbcedb96eedde4ffd65c3752296a86896d8ab0a58b93cc1f82e7 Pin SHA256: touKccSF0BQrxgXiiKO4KgxgaAcygubo4n0apvSvPJw=
<b>Common names</b>	cyberdoge.world
<b>Alternative names</b>	cyberdoge.world www.cyberdoge.world
<b>Serial Number</b>	00e31b50322e1bcae4
<b>Valid from</b>	Fri, 28 Oct 2022 11:23:57 UTC
<b>Valid until</b>	Fri, 27 Oct 2023 16:26:52 UTC (expires in 11 months and 29 days)
<b>Key</b>	RSA 2048 bits (e 65537)
<b>Weak key (Debian)</b>	No
<b>Issuer</b>	Go Daddy Secure Certificate Authority - G2 AIA: <a href="http://certificates.godaddy.com/repository/gdigi2.crt">http://certificates.godaddy.com/repository/gdigi2.crt</a>
<b>Signature algorithm</b>	SHA256withRSA
<b>Extended Validation</b>	No
<b>Revocation information</b>	CRL, OCSP CRL: <a href="http://crl.godaddy.com/gdigi2s1-4695.crl">http://crl.godaddy.com/gdigi2s1-4695.crl</a> OCSP: <a href="http://ocsp.godaddy.com/">http://ocsp.godaddy.com/</a>
<b>Revocation status</b>	Good (not revoked)
<b>DNS CAA</b>	No ( <a href="#">more info</a> )
<b>Trusted</b>	Yes <a href="#">Mozilla</a> <a href="#">Apple</a> <a href="#">Android</a> <a href="#">Java</a> <a href="#">Windows</a>

- Mobile Friendly
- Contains no code errors
- SSL is secured
- No spelling errors



## Audit Conclusion

- The owner cannot pause trading.
- The owner cannot mint new tokens.
- **The owner can disable trading function [High-Risk]**
- **The owner can add blacklist users [High-Risk].**
- The owner cannot set the max transaction amount
- **The owner can change the buy/sell fee up to 100% [High-Risk]**

**(All functions cannot be used if the ownership is renounced)**