



# SMART CONTRACT SECURITY AUDIT

Gulf Coin

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was posted at Soken Github



May, 2022

Website: [soken.io](https://soken.io)

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# Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

# Procedure

## Our analysis contains following steps:

### 1. Project Analysis;

### 2. Manual analysis of smart contracts:

- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

### 3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

### 4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph

# Terminology

**We categorize the finding into 4 categories based on their vulnerability:**

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

# Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

# Token Contract Details for 30.04.2022

Contract Name: **GulfCoin**

Deployed address: **0x014a087b646Bd90E7DCEad3993F49EB1F4B5f30a**

Total Supply: **10,000,000,000**

Token Tracker: **GULF**

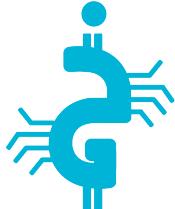
Decimals: **18**

Token holders: **19 038**

Transactions count: **22 079**

Top 100 holders dominance: **99.85%**

## Audit Details



Project Name: **Gulf Coin**

Language: **Solidity**

Compiler Version: **v0.8.9**

Blockchain: **BSC**

# Social Profiles

Project Website: <https://Gulfofficial.com>

Project Twitter: [https://twitter.com/GulfCoin\\_](https://twitter.com/GulfCoin_)

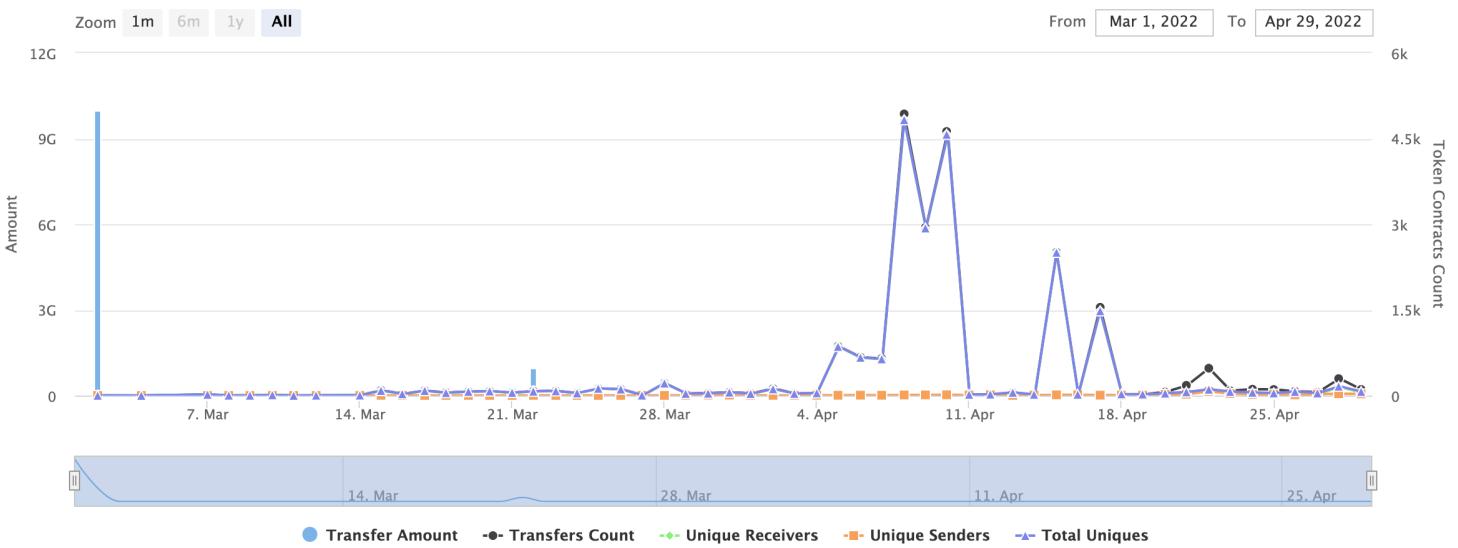
Project Telegram: <https://t.me/GulfCoinOfficial>

Project Instagram: <https://www.instagram.com/gulfcoinofficial/>

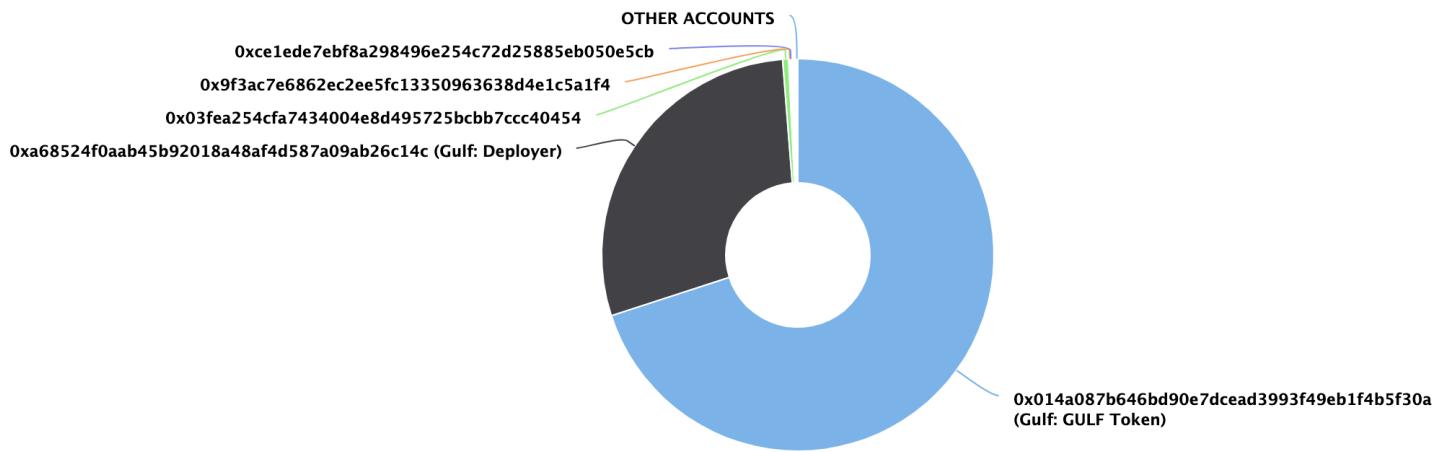
Project Facebook: <https://www.facebook.com/GulfCoinOfficial>

Project YouTube: <https://www.youtube.com/channel/UCmRrpQVjdK2ekzYd01wSs8Q>

# Contract Analytics



# GULF Token Distribution



## GULF Top Holders

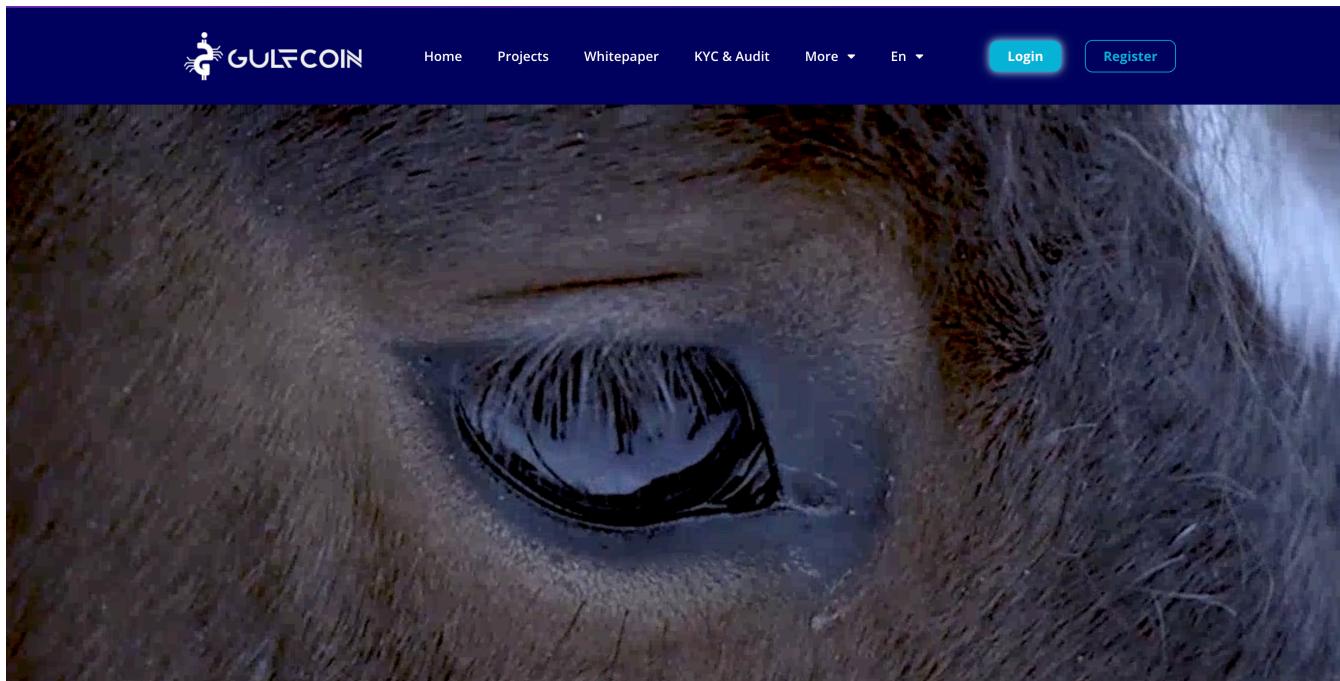
Rank	Address	Quantity (Token)	Percentage
1	0x014a087b646bd90e7dcead3993f49eb1f4b5f30a (Gulf: GULF Token)	7,000,001,003	70.0000%
2	0xa68524f0aab45b92018a48af4d587a09ab26c14c (Gulf: Deployer)	2,876,215,173.667	28.7622%
3	0x03fea254cfa7434004e8d495725bcb7ccc40454	50,000,000	0.5000%
4	0x9f3ac7e6862ec2ee5fc13350963638d4e1c5a1f4	15,300,000	0.1530%
5	0xce1ede7ebf8a298496e254c72d25885eb050e5cb	2,964,167	0.0296%
6	0x46d48af0a43c682828fbac9f58110dbb785d7e11	2,012,614.260690371191580975	0.0201%
7	0x19ee0f7b9b2f66f556890dac9c2649cd4e67eb09	1,792,114	0.0179%
8	0x2567d68deebd1d447f162e2e993f6673d03b45f5	1,792,114	0.0179%
9	0x894b961f9589d07d2cf85cfe1bc1e6b88874e512	1,418,903.616938807857508982	0.0142%
10	0xb74a2e14ebe86acfbb0765eadc46ac1dee8d7e4	1,050,178	0.0105%

# Contract Function Details

- [Int] \_msgSender
- [Int] \_msgData
- [Pub] owner
- [Pub] renounceOwnership
- [Pub] transferOwnership
- [Int] \_transferOwnership
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom
- [Pub] autoBurn\_On
- [Pub] autoBurn\_Off
- [Pub] manual\_burn
- [Pub] manual\_mint
- [Int] \_mint
- [Pub] burn
- [Int] \_burn
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Int] \_transfer
- [Int] \_approve
- [Int] \_daysFromDate
- [Int] timestampFromDateTime
- [Pub] updateDateNow
- [Pub] firstMintExecute
- [Pub] secondMintExecute
- [Pub] thirdMintExecute
- [Pub] fourthMintExecute
- [Pub] fifthMintExecute
- [Pub] sixthMintExecute
- [Pub] seventhMintExecute

- [Int] tryAdd
- [Int] trySub
- [Int] tryMul
- [Int] tryDiv
- [Int] tryMod
- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] mod
- [Int] sub
- [Int] div
- [Int] mod

# Project Website Overview



- ✓ JavaScript errors hasn't been found.
- ✓ Malware pop-up windows hasn't been detected.
- ✓ No issues with loading elements, code, or stylesheets.

## Project Website SSL Certification



**gulfofficial.com**

Issued by: Cloudflare Inc ECC CA-3

Expires: Monday, March 27, 2023 at 7:59:59 PM Eastern Daylight Time

 This certificate is valid

> **Trust**

# Project Website Performance Audit

🔗 <https://gulfofficial.com/>



## Performance

Values are estimated and may vary. The [performance score](#) is calculated directly from these metrics. [See calculator.](#)

▲ 0–49   ■ 50–89   ● 90–100



## METRICS

[Expand view](#)

■ First Contentful Paint

**1.1 s**

▲ Speed Index

**3.3 s**

▲ Largest Contentful Paint

**3.7 s**

■ Time to Interactive

**3.4 s**

● Total Blocking Time

**90 ms**

● Cumulative Layout Shift

**0**

# Project Website Optimization for Mobile

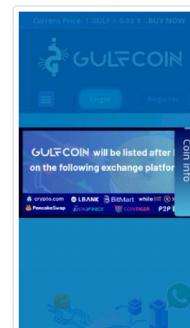
🔗 <https://gulfofficial.com/>



## Performance

Values are estimated and may vary. The [performance score](#) is calculated directly from these metrics. [See calculator.](#)

▲ 0–49   ■ 50–89   ● 90–100



## METRICS

[Expand view](#)

▲ First Contentful Paint

**8.9 s**

▲ Speed Index

**26.5 s**

▲ Largest Contentful Paint

**21.4 s**

▲ Time to Interactive

**37.6 s**

▲ Total Blocking Time

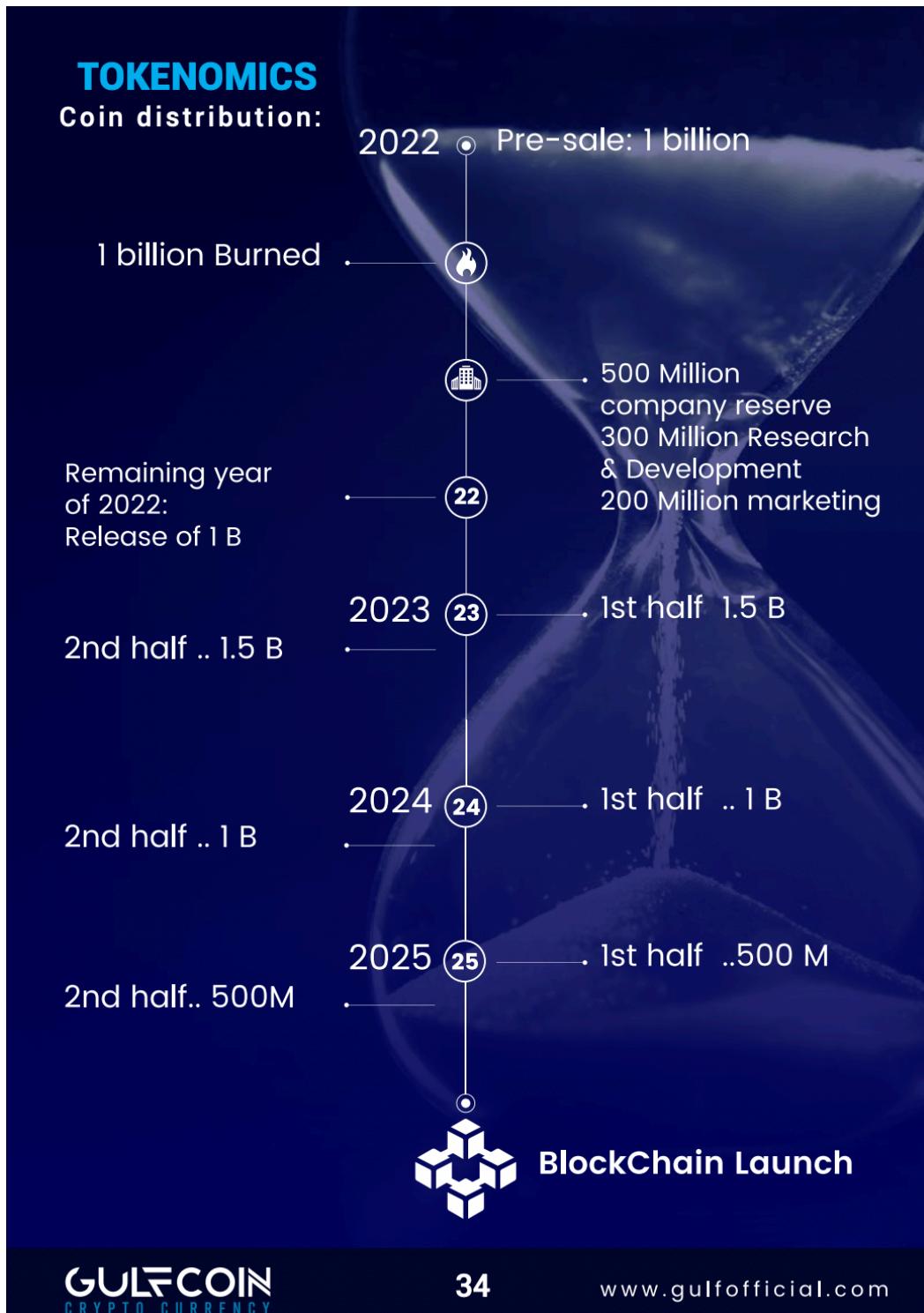
**25,430 ms**

● Cumulative Layout Shift

**0**

# Whitepaper of the project

The whitepaper of Gulf Coin project has been verified on behalf of Soken team.



Whitepaper link: <https://gulfofficial.com/pdf/gulfcoint-white-paper.pdf>

# Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

# Security Issues

## 1) Owner Privileges

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behaviour (for example, disable selling or mint new tokens).

## 2) Use of floating pragma

Solidity source files indicate the versions of the compiler they can be compiled with using a pragma directive at the top of the solidity file. This can either be a floating pragma or a specific compiler version.

The contract was found to be using a floating pragma which is not considered safe as it can be compiled with all the versions described.

# Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

## Soken Contact Info

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