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FINAL REPORT:

DegenWin

June 2023



Diselaimer:

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Executive Overview

This report been made for the DegenWin token. DegenWin is a premier online casino and sports betting platform which is fully licensed and based on the DGW Token

More information can be found here: https://degenwin.gitbook.io/degenwin/

1. Project Details

| Project | Cairo Finance | |
|----------|--|--|
| | | |
| | | |
| Website | https://degenwin.com/ | |
| Туре | ERC20 | |
| Language | Solidity | |
| Methods | Manual Review | |
| Github | 1. | |
| | https://github.com/DegenWin/Token/blob/main/DGW%20 | |
| | Token%20Pre%20Audit | |
| | | |
| | 2. | |
| | https://github.com/DegenWin/Token/blob/main/DGW%20 | |
| | <u>Token%20Final</u> | |

2. Detections Overview

| Severity | Found | Resolved | Partially Resolved | Acknowledged (no change made) |
|---------------|-------|----------|-----------------------|-------------------------------------|
| High | 0 | | | |
| Medium | 0 | | | |
| Low | 0 | | | |
| Informational | 3 | 3 | | |
| Total | 3 | 3 | | |



2.1 Detections Definitions

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|--|--|
| Severity | Description |
| High | The problem poses a significant threat to the confidentiality of a considerable number of users' sensitive data. It also has the potential to cause severe damage to the client's reputation or result in substantial financial losses for both the client and the affected users. |
| Medium | While medium level vulnerabilities may not be easy to exploit, they can still have a major impact on the execution of a smart contract. For instance, they may allow public access to critical functions, which could lead to serious consequences. |
| Low | Poses a very low level risk to the project or users. Nevertheless the issue should be fixed immediately |
| Informational | Effects are small and do not post an immediate danger to the project or users |



3. Detections

The **DegenWin** token is a simple ERC20

https://github.com/OpenZeppelin/openzeppelincontracts/blob/master/contracts/token/ER C20/ERC20.sol) token with a max supply of 11400000000 tokens. All tokens are pre-minted during contract deployment to the _mintAddress. This address will custody all tokens until further notice and it is not possible to mint additional tokens.

The contract is extended by the **ERC20Burnable** extension (https://github.com/OpenZeppelin/openzeppelincontracts/blob/master/contracts/token/ERC20/extensions/ERC20Burnable.sol) which allows users to burn their own tokens and approved addresses to burn tokens from the corresponding address.

Furthermore, the contract inherits OpenZeppelin's **Ownable** library, however, it is not actively used.

| Issue | Ownable library is unused |
|-----------------|--|
| Severity | Informational |
| Description | The above mentioned library is inherited by the DegenWin contract but is not actively used. |
| Recommendations | Think about the use case of this function, if it in fact serves a purpose and consider implementing this purpose. If it does not serve any purpose it should be removed. |
| Comments | The library has been removed. |



| Issue | _beforeTokenTransfer function is unnecessary |
|-----------------|--|
| Severity | Informational |
| Description | The above mentioned function does not serve any use case, it is simply calling the function within the ERC20 contract without any additional checks or calls. |
| Recommendations | Think about the use case of this function, if it in fact serves a purpose and consider implementing this purpose. If it does not serve any purpose it should be removed. |
| Comments | The function has been removed. |

| Issue | ERC20 inheritance is unnecessary |
|-----------------|--|
| Severity | Informational |
| Description | Since the ERC20Burnable extension already inherits the ERC20 contract, it is not necessary to inherit ERC20 twice. abstract contract ERC20Burnable is Context, ERC20 |
| Recommendations | Remove the ERC20 inheritance. |
| Comments | The inheritance has been removed. |