



Cyberscope

# Audit Report

# **Miner Arena**

May 2023

Network    BSC

Address    0x6D4e8507084C7B58D33B3b88915591670F959B2f

Audited by    © cyberscope

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## Review

|                  |                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contract Name    | MINAR                                                                                                                                                       |
| Compiler Version | v0.8.18+commit.87f61d96                                                                                                                                     |
| Optimization     | 200 runs                                                                                                                                                    |
| Explorer         | <a href="https://bscscan.com/address/0x6d4e8507084c7b58d33b3b88915591670f959b2f">https://bscscan.com/address/0x6d4e8507084c7b58d33b3b88915591670f959b2f</a> |
| Address          | 0x6d4e8507084c7b58d33b3b88915591670f959b2f                                                                                                                  |
| Network          | BSC                                                                                                                                                         |
| Symbol           | MINAR                                                                                                                                                       |
| Decimals         | 18                                                                                                                                                          |
| Total Supply     | 200,000,000                                                                                                                                                 |

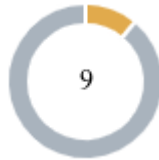
## Audit Updates

|               |             |
|---------------|-------------|
| Initial Audit | 08 May 2023 |
|---------------|-------------|

## Source Files

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| Filename  | SHA256                                                           |
| MINAR.sol | 844d2df5712b3908ef6a977a7caafb516f3ac563a3a225188afe5ef3120c7ed4 |

## Findings Breakdown



|                     |   |
|---------------------|---|
| Critical            | 0 |
| Medium              | 1 |
| Minor / Informative | 8 |

| Severity            | Unresolved | Acknowledged | Resolved | Other |
|---------------------|------------|--------------|----------|-------|
| Critical            | 0          | 0            | 0        | 0     |
| Medium              | 1          | 0            | 0        | 0     |
| Minor / Informative | 8          | 0            | 0        | 0     |

# Analysis

● Critical ● Medium ● Minor / Informative ● Pass

| Severity | Code | Description                        | Status     |
|----------|------|------------------------------------|------------|
| ●        | ST   | Stops Transactions                 | Unresolved |
| ●        | OCTD | Transfers Contract's Tokens        | Unresolved |
| ●        | OTUT | Transfers User's Tokens            | Passed     |
| ●        | ELFM | Exceeds Fees Limit                 | Passed     |
| ●        | ULTW | Transfers Liquidity to Team Wallet | Passed     |
| ●        | MT   | Mints Tokens                       | Passed     |
| ●        | BT   | Burns Tokens                       | Passed     |
| ●        | BC   | Blacklists Addresses               | Passed     |

## ST - Stops Transactions

|             |                 |
|-------------|-----------------|
| Criticality | Medium          |
| Location    | MINAR.sol#L1302 |
| Status      | Unresolved      |

### Description

The contract owner has the authority to stop the transactions for all users excluding the addresses that are excluded from fees. The owner may take advantage of it by setting the `tradingActive` to false.

```
if (!tradingActive) {  
    require(  
        _isExcludedFromFees[from] || _isExcludedFromFees[to],  
        "MINAR : Trading is not active."  
    );  
}
```

### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. Some suggestions are:

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-sign wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.
- Renouncing the ownership will eliminate the threats but it is non-reversible.

## OCTD - Transfers Contract's Tokens

|             |                     |
|-------------|---------------------|
| Criticality | Minor / Informative |
| Location    | MINAR.sol#L1400     |
| Status      | Unresolved          |

### Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the `recoverERC20` function.

```
function recoverERC20(  
    address tokenAddress,  
    uint256 tokenAmount  
) external onlyOwner {  
    require(tokenAddress != address(0), "MINAR: Invalid receive address");  
    require(  
        marketingWallet != address(0),  
        "MINAR: Invalid receive address"  
    );  
  
    IERC20(tokenAddress).transfer(marketingWallet, tokenAmount);  
}
```

### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. Some suggestions are:

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-sign wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.
- Renouncing the ownership will eliminate the threats but it is non-reversible.

## Diagnostics

● Critical ● Medium ● Minor / Informative

| Severity | Code | Description                                | Status     |
|----------|------|--------------------------------------------|------------|
| ●        | RSML | Redundant SafeMath Library                 | Unresolved |
| ●        | IDI  | Immutable Declaration Improvement          | Unresolved |
| ●        | L04  | Conformance to Solidity Naming Conventions | Unresolved |
| ●        | L07  | Missing Events Arithmetic                  | Unresolved |
| ●        | L09  | Dead Code Elimination                      | Unresolved |
| ●        | L15  | Local Scope Variable Shadowing             | Unresolved |
| ●        | L20  | Succeeded Transfer Check                   | Unresolved |

## RSML - Redundant SafeMath Library

|             |                     |
|-------------|---------------------|
| Criticality | Minor / Informative |
| Location    | MINAR.sol           |
| Status      | Unresolved          |

### Description

SafeMath is a popular Solidity library that provides a set of functions for performing common arithmetic operations in a way that is resistant to integer overflows and underflows.

Starting with Solidity versions that are greater than or equal to 0.8.0, the arithmetic operations revert to underflow and overflow. As a result, the native functionality of the Solidity operations replaces the SafeMath library. Hence, the usage of the SafeMath library adds complexity, and overhead and increases gas consumption unnecessarily.

```
library SafeMath {...}
```

### Recommendation

The team is advised to remove the SafeMath library. Since the version of the contract is greater than `0.8.0` then the pure Solidity arithmetic operations produce the same result.

If the previous functionality is required, then the contract could exploit the `unchecked { ... }` statement.

Read more about the breaking change at

<https://docs.soliditylang.org/en/v0.8.16/080-breaking-changes.html#solidity-v0-8-0-breaking-changes>.

## IDI - Immutable Declaration Improvement

|                    |                     |
|--------------------|---------------------|
| <b>Criticality</b> | Minor / Informative |
| <b>Location</b>    | MINAR.sol#L1151     |
| <b>Status</b>      | Unresolved          |

### Description

The contract is using variables that initialize them only in the constructor. The other functions are not mutating the variables. These variables are not defined as `immutable`.

```
reserveWallet
```

### Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.

## L04 - Conformance to Solidity Naming Conventions

|             |                                                          |
|-------------|----------------------------------------------------------|
| Criticality | Minor / Informative                                      |
| Location    | MINAR.sol#L826,828,859,901,1050,1104,1122,1191,1226,1234 |
| Status      | Unresolved                                               |

### Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
3. Use uppercase for constant variables and enums (e.g., MAX\_VALUE, ERROR\_CODE).
4. Use indentation to improve readability and structure.
5. Use spaces between operators and after commas.
6. Use comments to explain the purpose and behavior of the code.
7. Keep lines short (around 120 characters) to improve readability.

```
function DOMAIN_SEPARATOR() external view returns (bytes32);
function PERMIT_TYPEHASH() external pure returns (bytes32);
function MINIMUM_LIQUIDITY() external pure returns (uint256);
function WETH() external pure returns (address);
address public constant deadAddress = address(0xdead)

event marketingWalletUpdated(
    address indexed newWallet,
    address indexed oldWallet
);
bool _value
uint256 _newFee
```

## Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation

<https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention>.

## L07 - Missing Events Arithmetic

|                    |                     |
|--------------------|---------------------|
| <b>Criticality</b> | Minor / Informative |
| <b>Location</b>    | MINAR.sol#L1210     |
| <b>Status</b>      | Unresolved          |

### Description

Events are a way to record and log information about changes or actions that occur within a contract. They are often used to notify external parties or clients about events that have occurred within the contract, such as the transfer of tokens or the completion of a task.

It's important to carefully design and implement the events in a contract, and to ensure that all required events are included. It's also a good idea to test the contract to ensure that all events are being properly triggered and logged.

```
swapTokensAtAmount = newAmount
```

### Recommendation

By including all required events in the contract and thoroughly testing the contract's functionality, the contract ensures that it performs as intended and does not have any missing events that could cause issues with its arithmetic.

## L09 - Dead Code Elimination

|             |                     |
|-------------|---------------------|
| Criticality | Minor / Informative |
| Location    | MINAR.sol#L451      |
| Status      | Unresolved          |

### Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.

```
function _burn(address account, uint256 amount) internal virtual {
    require(account != address(0), "ERC20: burn from the zero address");

    _beforeTokenTransfer(account, address(0), amount);

    uint256 accountBalance = _balances[account];
    ...
}
_totalSupply -= amount;

emit Transfer(account, address(0), amount);

_afterTokenTransfer(account, address(0), amount);
}
```

## Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.

## L15 - Local Scope Variable Shadowing

|             |                     |
|-------------|---------------------|
| Criticality | Minor / Informative |
| Location    | MINAR.sol#L1143     |
| Status      | Unresolved          |

### Description

Local scope variable shadowing occurs when a local variable with the same name as a variable in an outer scope is declared within a function or code block. When this happens, the local variable "shadows" the outer variable, meaning that it takes precedence over the outer variable within the scope in which it is declared.

```
uint256 totalSupply = 200_000_000 * 1e18
```

### Recommendation

It's important to be aware of shadowing when working with local variables, as it can lead to confusion and unintended consequences if not used correctly. It's generally a good idea to choose unique names for local variables to avoid shadowing outer variables and causing confusion.

## L20 - Succeeded Transfer Check

|             |                     |
|-------------|---------------------|
| Criticality | Minor / Informative |
| Location    | MINAR.sol#L1410     |
| Status      | Unresolved          |

### Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
IERC20(tokenAddress).transfer(marketingWallet, tokenAmount)
```

### Recommendation

The contract should check if the result of the transfer methods is successful. The team is advised to check the SafeERC20 library from the [Openzeppelin library](#).

## Functions Analysis

| Contract       | Type               | Bases      |            |           |
|----------------|--------------------|------------|------------|-----------|
|                | Function Name      | Visibility | Mutability | Modifiers |
|                |                    |            |            |           |
| <b>Context</b> | Implementation     |            |            |           |
|                | _msgSender         | Internal   |            |           |
|                | _msgData           | Internal   |            |           |
|                |                    |            |            |           |
| <b>Ownable</b> | Implementation     | Context    |            |           |
|                |                    | Public     | ✓          | -         |
|                | owner              | Public     |            | -         |
|                | renounceOwnership  | Public     | ✓          | onlyOwner |
|                | transferOwnership  | Public     | ✓          | onlyOwner |
|                | _transferOwnership | Internal   | ✓          |           |
|                |                    |            |            |           |
| <b>IERC20</b>  | Interface          |            |            |           |
|                | totalSupply        | External   |            | -         |
|                | balanceOf          | External   |            | -         |
|                | transfer           | External   | ✓          | -         |
|                | allowance          | External   |            | -         |
|                | approve            | External   | ✓          | -         |
|                | transferFrom       | External   | ✓          | -         |

|                       |                   |                                           |   |   |
|-----------------------|-------------------|-------------------------------------------|---|---|
|                       |                   |                                           |   |   |
| <b>IERC20Metadata</b> | Interface         | IERC20                                    |   |   |
|                       | name              | External                                  |   | - |
|                       | symbol            | External                                  |   | - |
|                       | decimals          | External                                  |   | - |
|                       |                   |                                           |   |   |
| <b>ERC20</b>          | Implementation    | Context,<br>IERC20,<br>IERC20Meta<br>data |   |   |
|                       |                   | Public                                    | ✓ | - |
|                       | name              | Public                                    |   | - |
|                       | symbol            | Public                                    |   | - |
|                       | decimals          | Public                                    |   | - |
|                       | totalSupply       | Public                                    |   | - |
|                       | balanceOf         | Public                                    |   | - |
|                       | transfer          | Public                                    | ✓ | - |
|                       | allowance         | Public                                    |   | - |
|                       | approve           | Public                                    | ✓ | - |
|                       | transferFrom      | Public                                    | ✓ | - |
|                       | increaseAllowance | Public                                    | ✓ | - |
|                       | decreaseAllowance | Public                                    | ✓ | - |
|                       | _transfer         | Internal                                  | ✓ |   |
|                       | _mint             | Internal                                  | ✓ |   |
|                       | _burn             | Internal                                  | ✓ |   |

|                          |                      |          |   |   |
|--------------------------|----------------------|----------|---|---|
|                          | _approve             | Internal | ✓ |   |
|                          | _beforeTokenTransfer | Internal | ✓ |   |
|                          | _afterTokenTransfer  | Internal | ✓ |   |
|                          |                      |          |   |   |
| <b>SafeMath</b>          | Library              |          |   |   |
|                          | tryAdd               | Internal |   |   |
|                          | trySub               | Internal |   |   |
|                          | tryMul               | Internal |   |   |
|                          | tryDiv               | Internal |   |   |
|                          | tryMod               | Internal |   |   |
|                          | add                  | Internal |   |   |
|                          | sub                  | Internal |   |   |
|                          | mul                  | Internal |   |   |
|                          | div                  | Internal |   |   |
|                          | mod                  | Internal |   |   |
|                          | sub                  | Internal |   |   |
|                          | div                  | Internal |   |   |
|                          | mod                  | Internal |   |   |
|                          |                      |          |   |   |
| <b>IUniswapV2Factory</b> | Interface            |          |   |   |
|                          | feeTo                | External |   | - |
|                          | feeToSetter          | External |   | - |
|                          | getPair              | External |   | - |

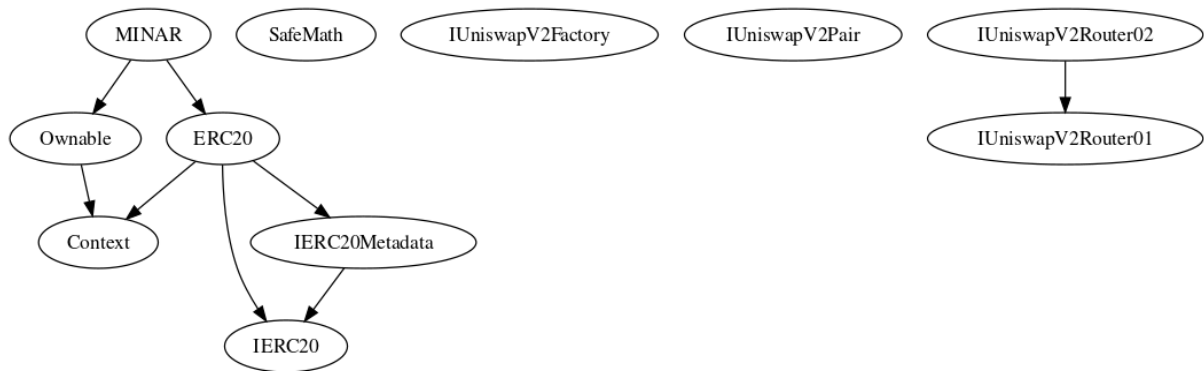
|                       |                   |          |   |   |
|-----------------------|-------------------|----------|---|---|
|                       | allPairs          | External |   | - |
|                       | allPairsLength    | External |   | - |
|                       | createPair        | External | ✓ | - |
|                       | setFeeTo          | External | ✓ | - |
|                       | setFeeToSetter    | External | ✓ | - |
|                       |                   |          |   |   |
| <b>IUniswapV2Pair</b> | Interface         |          |   |   |
|                       | name              | External |   | - |
|                       | symbol            | External |   | - |
|                       | decimals          | External |   | - |
|                       | totalSupply       | External |   | - |
|                       | balanceOf         | External |   | - |
|                       | allowance         | External |   | - |
|                       | approve           | External | ✓ | - |
|                       | transfer          | External | ✓ | - |
|                       | transferFrom      | External | ✓ | - |
|                       | DOMAIN_SEPARATOR  | External |   | - |
|                       | PERMIT_TYPEHASH   | External |   | - |
|                       | nonces            | External |   | - |
|                       | permit            | External | ✓ | - |
|                       | MINIMUM_LIQUIDITY | External |   | - |
|                       | factory           | External |   | - |
|                       | token0            | External |   | - |

|                           |                              |          |         |   |
|---------------------------|------------------------------|----------|---------|---|
|                           | token1                       | External |         | - |
|                           | getReserves                  | External |         | - |
|                           | price0CumulativeLast         | External |         | - |
|                           | price1CumulativeLast         | External |         | - |
|                           | kLast                        | External |         | - |
|                           | mint                         | External | ✓       | - |
|                           | burn                         | External | ✓       | - |
|                           | swap                         | External | ✓       | - |
|                           | skim                         | External | ✓       | - |
|                           | sync                         | External | ✓       | - |
|                           | initialize                   | External | ✓       | - |
|                           |                              |          |         |   |
| <b>IUniswapV2Router01</b> | Interface                    |          |         |   |
|                           | factory                      | External |         | - |
|                           | WETH                         | External |         | - |
|                           | addLiquidity                 | External | ✓       | - |
|                           | addLiquidityETH              | External | Payable | - |
|                           | removeLiquidity              | External | ✓       | - |
|                           | removeLiquidityETH           | External | ✓       | - |
|                           | removeLiquidityWithPermit    | External | ✓       | - |
|                           | removeLiquidityETHWithPermit | External | ✓       | - |
|                           | swapExactTokensForTokens     | External | ✓       | - |
|                           | swapTokensForExactTokens     | External | ✓       | - |

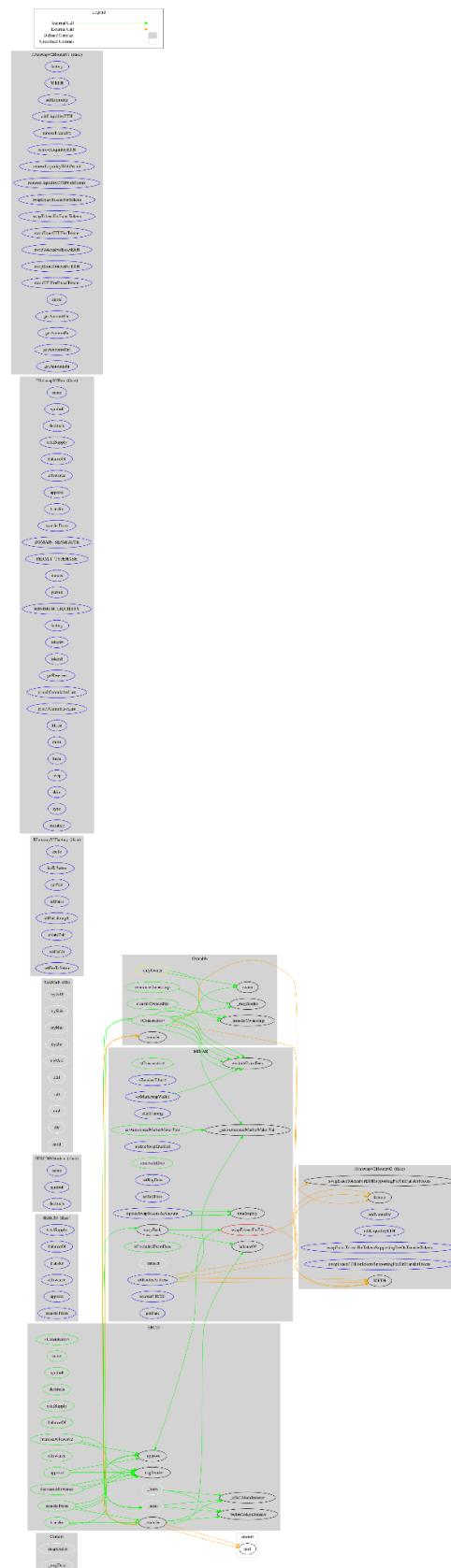
|                           |                                                       |                     |         |       |
|---------------------------|-------------------------------------------------------|---------------------|---------|-------|
|                           | swapExactETHForTokens                                 | External            | Payable | -     |
|                           | swapTokensForExactETH                                 | External            | ✓       | -     |
|                           | swapExactTokensForETH                                 | External            | ✓       | -     |
|                           | swapETHForExactTokens                                 | External            | Payable | -     |
|                           | quote                                                 | External            |         | -     |
|                           | getAmountOut                                          | External            |         | -     |
|                           | getAmountIn                                           | External            |         | -     |
|                           | getAmountsOut                                         | External            |         | -     |
|                           | getAmountsIn                                          | External            |         | -     |
|                           |                                                       |                     |         |       |
| <b>IUniswapV2Router02</b> | Interface                                             | IUniswapV2 Router01 |         |       |
|                           | factory                                               | External            |         | -     |
|                           | WETH                                                  | External            |         | -     |
|                           | addLiquidity                                          | External            | ✓       | -     |
|                           | addLiquidityETH                                       | External            | Payable | -     |
|                           | swapExactTokensForTokensSupportingFeeOnTransferTokens | External            | ✓       | -     |
|                           | swapExactETHForTokensSupportingFeeOnTransferTokens    | External            | Payable | -     |
|                           | swapExactTokensForETHSupportingFeeOnTransferTokens    | External            | ✓       | -     |
|                           |                                                       |                     |         |       |
| <b>MINAR</b>              | Implementation                                        | ERC20, Ownable      |         |       |
|                           |                                                       | Public              | ✓       | ERC20 |
|                           |                                                       | External            | Payable | -     |

|  |                              |          |   |           |
|--|------------------------------|----------|---|-----------|
|  | setRouterAddress             | External | ✓ | onlyOwner |
|  | startTrading                 | External | ✓ | onlyOwner |
|  | updateSwapTokensAtAmount     | External | ✓ | onlyOwner |
|  | updateSwapEnabled            | External | ✓ | onlyOwner |
|  | removeAllFee                 | Public   | ✓ | onlyOwner |
|  | setBuyFees                   | External | ✓ | onlyOwner |
|  | setSellFees                  | External | ✓ | onlyOwner |
|  | excludeFromFees              | Public   | ✓ | onlyOwner |
|  | setAutomatedMarketMakerPair  | Public   | ✓ | onlyOwner |
|  | _setAutomatedMarketMakerPair | Private  | ✓ |           |
|  | setMarketingWallet           | External | ✓ | onlyOwner |
|  | isExcludedFromFees           | Public   |   | -         |
|  | _transfer                    | Internal | ✓ |           |
|  | swapTokensForEth             | Private  | ✓ |           |
|  | swapBack                     | Private  | ✓ |           |
|  | recoverERC20                 | External | ✓ | onlyOwner |
|  | getData                      | External |   | -         |

## Inheritance Graph



## Flow Graph



## Summary

Miner Arena contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. There are some functions that can be abused by the owner like stopping transactions and draining the contract's tokens. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. There is also a limit of max 10% fees.

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Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



**The Cyberscope team**

<https://www.cyberscope.io>