

REPORT 60711303E39BAB001149B1F2

Created Sat Apr 10 2021 02:52:51 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

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REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

<u>0b48280c-6fe1-45f6-b9f7-032eed50b815</u>

contracts/MasterChef.sol

50

Started Sat Apr 10 2021 02:53:01 GMT+0000 (Coordinated Universal Time)

Sat Apr 10 2021 03:08:37 GMT+0000 (Coordinated Universal Time) Finished

Mode

Client Tool Remythx

Main Source File Contracts/MasterChef.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW
	00	0.7
0	23	27

ISSUES

MEDIUM Function could be marked as external.

SWC-000

The function definition of "mint" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

 ${\tt @openzeppelin/contracts/math/SafeMath.sol}$

```
7 * checks.
8
   * Arithmetic operations in Solidity wrap on overflow. This can easily result
    ^{\star} in bugs, because programmers usually assume that an overflow raises an
   * error, which is the standard behavior in high level programming languages.
11
    ^{\star} 'SafeMath' restores this intuition by reverting the transaction when an
    * operation overflows.
13
14
```

The function definition of "renounceOwnership" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

SWC-000 Source file

contracts/WishToken.sol

Locations

```
36
    /// @notice The EIP-712 typehash for the delegation struct used by the contract
37
    bytes32 public constant DELEGATION_TYPEHASH = keccak256("Delegation(address delegatee,uint256 nonce,uint256 expiry)");
38
    mapping (address => uint) public nonces;
41
42
43
    /// @notice An event thats emitted when an account changes its delegate
    event \ \ Delegate Changed (address\ indexed\ delegator,\ address\ indexed\ from Delegate,\ address\ indexed\ to Delegate);
```

MEDIUM Function could be marked as external.

The function definition of "transferOwnership" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to SWC-000 mark it as "external" instead.

Source file

contracts/WishToken.sol

Locations

```
42
    /// @notice An event thats emitted when an account changes its delegate
    event DelegateChanged(address indexed delegator, address indexed fromDelegate, address indexed toDelegate);
44
    /// @notice An event thats emitted when a delegate account's vote balance cha
46
    event DelegateVotesChanged(address indexed delegate, uint previousBalance uint newBalance)
49
    * @notice Delegate votes from `msg.sender` to `delegatee`
    * @param delegator The address to get delegatee for
51
    */
52
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "symbol" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as

Source file

@openzeppelin/contracts/utils/Address.sol

```
62 * @dev Performs a Solidity function call using a low level 'call'. A
    * plain'call' is an unsafe replacement for a function call: use this
    * function instead.
64
65
    * If 'target' reverts with a revert reason, it is bubbled up by this
    * function (like regular Solidity function calls).
67
68
```

The function definition of "decimals" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as

SWC-000

@openzeppelin/contracts/utils/Address.sol

Locations

Source file

```
67 | * function (like regular Solidity function calls).
68
    * Returns the raw retu<mark>rned data. To convert to the expected return value,</mark>
    * use https://solidity.readthedoc.s.io/en/latest/units-and-global-variables.html?highlight=abi.decode#abi-encoding-and-decoding-functions[`abi.decode`].
71
     * Requirements:
72
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "totalSupply" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it

Source file

@openzeppelin/contracts/utils/Address.sol

Locations

```
* Returns the raw returned data. To convert to the expected return value
    * use https://solidity.readthedocs.io/en/latest/units-and-global-variables.html?highlight=abidecode#abidecode#abidecoding-and-decoding-functions 'abidecode'
71
    * Requirements:
72
73
    * - 'target' must be a contract.
    * - calling `target` with `data` must not revert.
75
76
```

SWC-000

MEDIUM Function could be marked as external.

The function definition of "transfer" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as

Source file

@openzeppelin/contracts/utils/Address.sol

```
82
83
     * @dev Same as {xref-Address-functionCall-address-bytes-}[`functionCall`], but with
    * `errorMessage` as a fallback revert reason when `target` reverts.
85
86
    * _Available since v3.1._
87
    function functionCall(address target, bytes memory data, string memory errorMessage) internal returns (bytes memory) {
    return functionCallWithValue(target, data, 0, errorMessage);
91
```

The function definition of "allowance" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as

SWC-000

@openzeppelin/contracts/utils/Address.sol

Locations

Source file

```
87 | * _Available since v3.1._
88
    function functionCall(address target, bytes memory data, string memory errorMessage) internal returns (bytes memory) {
    return functionCallWithValue(target, data, 0, errorMessage);
92
93
    * @dev Same as {xref-Address-functionCall-address-bytes-}[`functionCall`],
94
    * but also transferring `value` wei to `target`.
96
```

MEDIUM Function could be marked as external.

The function definition of "approve" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as SWC-000 "external" instead.

Source file

@openzeppelin/contracts/utils/Address.sol

```
94 | * @dev Same as \{xref-Address-functionCall-address-bytes-\}['functionCall'],
    * but also transferring 'value' wei to 'target'.
95
96
    * Requirements:
97
98
    * - the calling contract must have an ETH balance of at least 'value'.
99
    * - the called Solidity function must be 'payable'.
    * _Available since v3.1._
102
```

The function definition of "transferFrom" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it

SWC-000

Source file

@openzeppelin/contracts/utils/Address.sol

Locations

```
108
                        {\tt * @dev Same as \{xref-Address-functionCallWithValue-address-bytes-uint256-\}[`functionCallWithValue`], \ but a substitution of the control of the control
109
                      * with 'errorMessage' as a fallback revert reason whe<mark>n 'target' reverts.</mark>
                        function functionCallWithValue(address target, bytes memory data, uint256 value, string memory errorMessage) internal returns (bytes memory) {
114
                      require(address(this).balance >= value, "Address: insufficient balance for call").
115
                      require(isContract(target), "Address: call to non-contract");
                      // solhint-disable-next-line avoid-low-level-calls
118
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "increaseAllowance" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to

Source file

@openzeppelin/contracts/utils/Address.sol

Locations

```
125 | * but performing a static call.
126
     * _Available since v3.3._
127
128
     function functionStaticCall(address target, bytes memory data) internal view returns (bytes memory) {
     return functionStaticCall(target, data, "Address: low-level static call failed");
130
131
```

SWC-000

MEDIUM Function could be marked as external.

The function definition of "decreaseAllowance" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

@openzeppelin/contracts/utils/Address.sol

```
141
    // solhint-disable-next-line avoid-low-level-calls
    (bool success, bytes memory returndata) = target.staticcall(data);
143
    return _verifyCallResult(success, returndata, errorMessage);
145
146
     function _verifyCallResult(bool success, bytes memory returndata, string memory errorMessage) private pure returns(bytes memory) {
147
148
    if (success) {
    return returndata;
```

SWC-000

The function definition of "mint" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as

Source file

@openzeppelin/contracts/utils/Address.sol

```
151 | // Look for revert reason and bubble it up if present
if (returndata.length > 0) {
     // The easi<mark>est way to bubble the revert reason is using memory via assembly</mark>
153
154
     // solhint-disable-next-line no-inline-assembly
155
156
     assembly {
     let returndata_size := mload(returndata)
```