

REPORT 60688534DD06F7001141532C

Created Sat Apr 03 2021 15:09:40 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User admin@kobito.finance

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

<u>b36392f5-a5c4-456d-a9fa-2e1361d8c50d</u> contracts/MasterChef.sol 57

Started Sat Apr 03 2021 15:09:49 GMT+0000 (Coordinated Universal Time)

Finished Sat Apr 03 2021 15:25:46 GMT+0000 (Coordinated Universal Time)

Mode Standard

Client Tool Remythx

Main Source File Contracts/MasterChef.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW
0	26	21

ISSUES

MEDIUM Function could be marked as external.

SWC-000 "external

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

contracts/libs/SafeBEP20.sol

Locations

```
* @dev Wrappers around BEP20 operations that throw on failure (when the token

* contract returns false). Tokens that return no value (and instead revert or

* throw on failure) are also supported, non-reverting calls are assumed to be

* successful

* To use this library you can add a 'using SafeBEP20 for IBEP20 ' statement to your contract,

* which allows you to call the safe operations as 'token.safeTransfer(...)', etc.

*/
```

MEDIUM Function could be marked as external.

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.

Source file

contracts/MasterChef.sol

SWC-000

```
// Info of each pool.

struct PoolInfo {

IBEP20 lpToken: // Address of LP token contract.

uint256 allocPoint; // How many allocation points assigned to this pool. KBTs to distribute per block.

uint256 lastRewardBlock; // Last block number that KBTs distribution occurs.

uint256 accKobitoPerShare; // Accumulated KBTs per share, times 1e12. See below.
```

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 mark it as "external" instead.

SWC-000

Source file contracts/MasterChef.sol

Locations

```
45 | uint256 allocPoint; // How many allocation points assigned to this pool. KBTs to distribute per block.
    uint256 lastRewardBlock; // Last block number that KBTs distribution occurs.
    uint256 accKobitoPerShare; // Accumulated KBTs per share, times 1e12. See below.
    uint16 depositFeeBP; // Deposit fee in basis points
48
49
50
    // The KBT TOKEN!
51
    KobitoToken public kobito;
52
53
    address public devAddress;
54
    // Deposit Fee address
55
    address public feeAddress;
    // KBT tokens created per block.
```

MEDIUM Function could be marked as external.

SWC-000

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

Source file

@openzeppelin/contracts/math/SafeMath.sol

```
79 | * Counterpart to Solidity's `+` operator
80
   * Requirements
82
   * - Addition cannot overflow
84
   uint256 c = a + b;
86
   require(c >= a, "SafeMath: addition overflow");
```

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

SWC-000

Source file

@openzeppelin/contracts/math/SafeMath.sol

Locations

```
84 | */
    function add(uint256 a, uint256 b) internal pure returns (uint256) {
85
    uint256 c = a + b;
    require(c >= a, "SafeMath: addition overflow");
87
89
90
91
    * @dev Returns the subtraction of two unsigned integers, reverting on
93
    * overflow (when the result is negative).
```

MEDIUM Function could be marked as external.

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 SWC-000 as "external" instead.

Source file

@openzeppelin/contracts/math/SafeMath.sol

```
90
91
    * @dev Returns the subtraction of two unsigned integers, reverting on
92
    * overflow (when the result is negative).
93
    * Counterpart to Solidity's `-` operator.
95
    * Requirements:
```

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

SWC-000

@openzeppelin/contracts/math/SafeMath.sol

Locations

Source file

```
108 | * overflow.
109
     * C<mark>ounterpart to Solidity's `*` operator.</mark>
     * - Multiplication cannot overflow
114
115
     function mul(uint256 a, uint256 b) internal pure returns (uint256) {
116
     if (a == 0) return 0;
     uint256 c = a * b;
118
```

MEDIUM Function could be marked as external.

SWC-000

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

Source file

@openzeppelin/contracts/math/SafeMath.sol

```
115 | */
     function mul(uint256 a, uint256 b) internal pure returns (uint256) {
116
117
     if (a == 0) retur<mark>n 0;</mark>
      uint256 c = a * b;
118
      require(c / a == b, "SafeMath: multiplication overflow");
     return c;
120
121
122
123
      ^{\mbox{\scriptsize {\rm c}}} @dev Returns the integer division of two unsigned integers, reverting on
124
     * division by zero. The result is rounded towards zero.
125
126
```

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

Source file

@openzeppelin/contracts/math/SafeMath.sol

Locations

```
124 | * @dev Returns the integer division of two unsigned integers, reverting on
     \ensuremath{^\star}\xspace division by zero. The result is rounded towards zero.
125
126
     * Counterpart to Solidity's '/' operator. Note: this function uses a
     * 'revert' opcode (which leaves remaining gas untouched) while Solidity
     * uses an invalid opcode to revert (consuming all remaining gas).
129
130
     * Requirements:
131
```

SWC-000

MEDIUM Function could be marked as external.

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 as "external" instead.

Source file

@openzeppelin/contracts/math/SafeMath.sol

```
* reverting when dividing by zero.
143
    * Counterpart to Solidity's `%` operator. This function uses a `revert`
    * opcode (which leaves remaining gas untouched) while Solidity uses an
145
    * invalid opcode to revert (consuming all remaining gas).
146
147
    * Requirements:
148
    * - The divisor cannot be zero.
150
151
    function mod(uint256 a, uint256 b) internal pure returns (uint256) {
152
    require(b > 0, "SafeMath: modulo by zero");
    return a % b;
154
155
```

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 mark it as "external" instead.

SWC-000

@openzeppelin/contracts/math/SafeMath.sol

Locations

Source file

```
* message unnecessarily. For custom revert reasons use {trySub}
162
163
     * Counterpart to Solidity's `-` operator.
165
167
     * - Subtraction cannot overflow.
168
169
     function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
170
171
     require(b <= a, errorMessage);</pre>
    return a - b;
```

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 SWC-000 mark it as "external" instead.

Source file

@openzeppelin/contracts/math/SafeMath.sol

```
180 | * message unnecessarily. For custom revert reasons use {tryDiv}.
181
     * Counterpart to Solidity's '/' operator. Note: this function uses a
182
     * 'revert' opcode (which leaves remaining gas untouched) while Solidity
183
     * uses an invalid opcode to revert (consuming all remaining gas).
185
     * Requirements:
187
     * - The divisor cannot be zero.
188
189
     function div(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
190
    require(b > 0, errorMessage);
191
192
    return a / b;
```

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/math/SafeMath.sol

