

Analysis c69f4e65-bd66-4be0-a969-217aec2339cb

MythX

Started Sun Apr 10 2022 17:40:29 GMT+0000 (Coordinated Universal Time)

Finished Sun Apr 10 2022 17:40:35 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Remythx

Main Source File Contracts/Defla.Sol

DETECTED VULNERABILITIES

(HIGH (MEDIUM (LOW

0 0

ISSUES

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
uint256 c = a + b;
require(c >= a, "SafeMath: addition overflow");
return c;
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

```
function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
    require(b <= a, errorMessage);
    uint256 c = a | - b;
    return c;</pre>
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
45 | }
46 |
47 | uint256 c = a | * b;
48 | require(c / a == b, "SafeMath: multiplication overflow");
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
uint256 c = a * b;

require(c / a == b, "SafeMath: multiplication overflow");

return c;
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

```
function div(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
   require(b > 0, errorMessage);
   uint256 c = a / b;
   return c;
}
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
function mul(int256 a, int256 b) internal pure returns (int256) {

int256 c = a * b;

require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
70 require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
71 require((b == 0) || (c / | b == a));
72 return c;
73
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

```
76 | require(b != -1 || a != MIN_INT256);

77 |
78 | return a / b;

79 | }
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
80
81  function sub(int256 a, int256 b) internal pure returns (int256) {
82  int256 c = a - b;
83  require((b >= 0 85 c <= a) || (b < 0 85 c > a));
84  return c;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
86
87 function add(int256 a, int256 b) internal pure returns (int256) {
88 int256 c = a + b;
89 require((b >= 0 88 c >= a) || (b < 0 88 c < a));
90 return c;
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

```
uint256 total;

Batch[] memory _rLock = _rLocks[_address];

for(uint256 i=0 ; i< _rLock.length; i++){
    uint256 _timestamp = lockTimestamps[_rLock[i]._lockContract];

if(block.timestamp <= _timestamp){</pre>
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
uint256 count = batches.length;

Batch[] memory returnBatches = new Batch[](count);

for(uint256 i = 0; i < batches.length; i++){
    returnBatches[i]._lockContract = batches[i]._lockContract;
    returnBatches[i]._value = batches[i]._value.div(rate);
</pre>
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
InterfaceLP public pairContract;

uint256 private constant INITIAL_SUPPLY = 100000000*10***_decimals;

uint256 public rate;

uint256 public _totalSupply;
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file contracts/defla.sol

```
InterfaceLP public pairContract;

uint256 private constant INITIAL_SUPPLY = 10000000*10**__decimals;

uint256 public rate;

uint256 public _totalSupply;
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
uint256 private constant MAX_UINT256 = ~uint256(0);
uint256 private constant MAX_SUPPLY = ~uint128(0);
uint256 private constant rSupply = MAX_UINT256 - MAX_UINT256 % INITIAL_SUPPLY ;

289
uint BURN_TAX = 2; // 2% burn
```

UNKNOWN Arithmetic operation "%" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
uint256 private constant MAX_UINT256 = ~uint256(0);
uint256 private constant MAX_SUPPLY = ~uint128(0);
uint256 private constant rSupply = MAX_UINT256 ~ (MAX_UINT256 % INITIAL_SUPPLY);

uint BURN_TAX = 2; // 2% burn
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

```
__transferFrom(msg.sender, recipient, amount);

} else {

uint burnAmount = amount mul BURN_TAX / 100;

__transferFrom(msg.sender, recipient, amount.sub(burnAmount));

__transferFrom(msg.sender, DEAD, burnAmount);
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

contracts/defla.sol

Locations

```
349    _transferFrom(sender, recipient, amount);
350    } else {
351    uint burnAmount = amount mul(BURN_TAX) / 180;
352    _transferFrom(msg.sender, recipient, amount.sub(burnAmount));
353    _transferFrom(msg.sender, DEAD, burnAmount);
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.10"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

contracts/defla.sol

Locations

```
// SPDX-License-Identifier: MIT
pragma solidity \^0.8.18;

/*
```

LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "WBNB" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

contracts/defla.sol

LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "DEAD" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

contracts/defla.sol

Locations

It is best practice to set the visibility of state variables explicitly. The default visibility for "_rBalance" is internal. Other possible visibility settings are public and private.

LOW State variable visibility is not set.

SWC-108

Source file

contracts/defla.sol

Locations

```
uint8 constant _decimals = 18;

mapping (address => uint256) _rBalance;

mapping (address => mapping (address => uint256)) _allowances;
```

LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "_allowances" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

contracts/defla.sol

```
mapping (address => uint256) _rBalance;
mapping (address => mapping (address => uint256)) _allowances;

mapping (address => bool) lockContracts;
```

LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "lockContracts" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

contracts/defla.sol

Locations

```
mapping (address => mapping (address => uint256)) _allowances;

mapping (address => bool) lockContracts;

mapping (address => uint256) lockTimestamps;

struct Batch{
```

It is best practice to set the visibility of state variables explicitly. The default visibility for "lockTimestamps" is internal. Other possible visibility settings are public and private.

LOW State variable visibility is not set.

SWC-108

Source file

contracts/defla.sol

Locations

```
mapping (address => bool) lockContracts;
mapping (address => uint256) lockTimestamps;
struct Batch{
address _lockContract;
```

LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "_rLocks" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

contracts/defla.sol

```
uint256 _value;

mapping(address => Batch[]) _rLocks;

function setLockContract(address _contractAddress, uint256 _timestamp) external onlyOwner(
require(isContract(_contractAddress), "SafeBEP20: call to non-contract");
```

LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "BURN_TAX" is internal. Other possible visibility settings are public and private.

SWC-108

Source file

contracts/defla.sol

Locations

```
uint256 private constant rSupply = MAX_UINT256 - (MAX_UINT256 % INITIAL_SUPPLY);

uint BURN_TAX = 2; // 2% burn
address public admin;

mapping(address => bool) public excludedFromTax;
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

contracts/defla.sol

Locations

```
Batch[] memory _rLock = _rLocks[_address];

for(uint256 i=0 ; i< _rLock.length; i++){

uint256 _timestamp = lockTimestamps[_rLock i]._lockContract];

if(block.timestamp <= _timestamp){

total = total.add(_rLock[i]._value);
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

contracts/defla.sol

```
uint256 _timestamp = lockTimestamps[_rlock[i]._lockContract];
if(block.timestamp <= _timestamp){
total = total.add(_rlock i]._value);
}
260
}</pre>
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

contracts/defla.sol

Locations

```
Batch[] memory returnBatches = new Batch[](count);

for(uint256 i = 0; i < batches.length; i++){

returnBatches i ._lockContract = batches[i]._lockContract;

returnBatches[i]._value = batches[i]._value.div(rate);
}
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

contracts/defla.sol

Locations

```
Batch[] memory returnBatches = new Batch[](count);

for(uint256 i = 0; i < batches.length; i++){

returnBatches[i]._lockContract = batches:i_._lockContract;

returnBatches[i]._value = batches[i]._value.div(rate);
}
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

contracts/defla.sol

```
for(uint256 i = 0; i < batches.length; i++){
    returnBatches[i]._lockContract = batches[i]._lockContract;
    returnBatches[i]._value = batches[i]._value.div(rate);
}
return returnBatches;</pre>
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

contracts/defla.sol

```
for(uint256 i = 0; i < batches.length; i++){

returnBatches[i]._lockContract;

returnBatches[i]._value = batches i ._value.div(rate);
}

return returnBatches;</pre>
```