

REPORT 61F78D68923E4C0018B5A4BE

Created Mon Jan 31 2022 07:19:04 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 61f52e351fd393a0c51a34fe

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

697c177e-c881-4adb-8528-3082481437c6

minter.sol

0

Started Mon Jan 31 2022 07:19:11 GMT+0000 (Coordinated Universal Time)

Finished Mon Jan 31 2022 07:19:15 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Remythx

Main Source File Minter.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW
0	0	0

ISSUES

```
UNKNOWN Arithmetic operation "*" discovered
```

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

SWC-101

Source file minter.sol

Locations

```
contract BaseV1Minter {

uint internal constant week = 86400 * 7; // allows minting once per week (reset every Thursday 00:00 UTC)

uint internal constant emission = 98;

uint internal constant tail_emission = 2;
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file minter.sol

Locations

```
uint public weekly = 20000000e18;

uint public active_period;

uint internal constant lock = 86400 * 7 * 52 * 4;

defined address internal initializer;
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file minter.sol Locations

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uint public weekly = 20000000e18;

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SWC-101

Source file minter.sol Locations

```
62    _ve = ve(_ve);
63    _ve_dist = ve_dist(_ve_dist);
64    active_period = block timestamp + week / week * week;
65 }
```

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file minter.sol

minter.so Locations

```
62   _ve = ve(_ve);
63   _ve_dist = ve_dist(_ve_dist);
64   active_period = block timestamp + week / week;
65  }
66
```

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file minter.sol Locations

```
62    _ve = ve(_ve);
63    _ve_dist = ve_dist(_ve_dist);
64    active_period = (block timestamp + week) / week * week;
65  }
66
```

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file

minter.sol Locations

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

minter.sol Locations

```
// calculate circulating supply as total token supply - locked supply
function circulating_supply() public view returns (uint) {
return _token totalSupply() - _ve totalSupply();
}

84
85
```

UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

minter.sol

Locations

```
// emission calculation is 2% of available supply to mint adjusted by circulating / total supply

function calculate_emission() public view returns (uint) {

return weekly * emission / target_base * circulating_supply() / _token totalSupply();

}

90
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

minter.sol

```
Locations
```

```
// emission calculation is 2% of available supply to mint adjusted by circulating / total supply

function calculate_emission() public view returns (uint) {

return weekly * emission / target_base * circulating_supply() / _token.totalSupply();

}
```

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SWC-101

Source file

minter.sol

```
Locations
```

```
// calculates tail end (infinity) emissions as 0.2% of total supply

function circulating_emission() public view returns (uint) {

return circulating_supply() * tail_emission / tail_base;

}
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file minter.sol

Locations

```
// calculates tail end (infinity) emissions as 0.2% of total supply
function circulating_emission() public view returns (uint) {
return circulating_supply() a tail_emission / tail_base;
}

100
```

UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

minter.sol

Locations

```
// calculate inflation and adjust ve balances accordingly

function calculate_growth(uint _minted) public view returns (uint) {

return _ve totalSupply() * _minted / _token totalSupply();
}

104

105
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

minter.sol

```
Locations
```

```
// calculate inflation and adjust ve balances accordingly

function calculate_growth(uint _minted) public view returns (uint) {

return _ve totalSupply() * _minted / _token.totalSupply();

}

184

185
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file minter.sol

Locations

```
function update_period() external returns (uint) {
    uint _period = active_period;

if (block.timestamp >= _period + week) { // only trigger if new week
    _period = block.timestamp / week * week;

active_period = _period;
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

minter.sol

Locations

```
uint _period = active_period;
if (block.timestamp >= _period + week) { // only trigger if new week

_period = block.timestamp / week * week;

active_period = _period;

weekly = weekly_emission();
```

UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

minter.sol

Locations

```
uint _period = active_period;
if (block.timestamp >= _period + week) { // only trigger if new week

_period = block timestamp / week * week;

active_period = _period;

weekly = weekly_emission();
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

minter.sol Locations

```
uint _growth = calculate_growth(weekly);
uint _required = _growth + weekly;
uint _balanceOf = _token.balanceOf(address(this));
if (_balanceOf < _required) {</pre>
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

minter.sol

Locations

```
uint _balanceOf = _token.balanceOf(address(this));
if (_balanceOf < _required) {
    _token.mint(address(this), _required-_balanceOf);
}
</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

minter.sol

Locations

```
74  _token.approve(address(_ve), type(uint).max);
75  for (uint i = 0; i < claimants.length; i++) {
76   _ve.create_lock_for(amounts i), lock, claimants[i]);
77  }
78  initializer = address(0);</pre>
```

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SWC-110

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74   _token.approve(address(_ve), type(uint).max);
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76    _ve.create_lock_for(amounts[i], lock, claimants i);
77   }
78   initializer = address(0);</pre>
```