

REPORT 62501D6725DC4F0019997A2A

Created Fri Apr 08 2022 11:32:55 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 6135edf7a6e184c5d2c6ee1e

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

5

<u>b314e2f4-7b76-4cf5-8087-f2726c5aa872</u> /contracts/vault.sol

Started Fri Apr 08 2022 11:33:03 GMT+0000 (Coordinated Universal Time)

Finished Fri Apr 08 2022 11:33:12 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Mythx-Vscode-Extension

Main Source File /Contracts/Vault.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW
0	0	5

ISSUES

```
UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

/contracts/vault.sol

```
98 | }
99 |
100 | /// @notice Initiates a withdrawal of vault tokens to the user.
101 | /// @param sharesIn The amount of vault tokens to withdraw.
102 | /// @param receiver The address to receive the vault tokens.
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file

/contracts/vault.sol

Locations

```
98 }
99
100 /// @notice Initiates a withdrawal of vault tokens to the user.
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UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

/contracts/vault.sol

Locations

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

/contracts/vault.sol

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file

/contracts/vault.sol

Locations

```
129 /*////
130 EXECUTOR DEPOSIT/WITHDRAWAL LOGIC
131 ///////
132
133 /// @notice list of trade executors connected to vault.
134 AddrArrayLib.Addresses tradeExecutorsList;
```

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

/contracts/vault.sol

Locations

```
event FeesCollected(uint256 collectedFees);

198

199

// @notice Calculates and collects the fees from the vault.

200

/// @dev This function sends all the accured fees to governance.

201

/// checks the yield made since previous harvest and
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

/contracts/vault.sol

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

/contracts/vault.sol

Locations

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

/contracts/vault.sol

Locations

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file

/contracts/vault.sol

```
262 }
263 

264 /// @notice gives the number of trade executors.
265 /// @return The number of trade executors.
266 function totalExecutors() public view returns (uint256) {
267 return tradeExecutorsList.size();
```

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file

/contracts/vault.sol

Locations

```
.totalFunds();
require(block.number <= blockUpdated + BLOCK_LIMIT, "FUNDS_NOT_UPDATED");
totalFunds += executorFunds;
}
return totalFunds;</pre>
```

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file

/contracts/vault.sol

Locations

UNKNOWN Arithmetic operation "+=" discovered

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

SWC-101

Source file

/contracts/vault.sol

```
293
294
295
296
297
298
299 /// @notice Emitted when a batcher is updated.
299 /// @param oldBatcher The address of the current batcher.
297
297
298
299 /// @param newBatcher The address of new batcher.
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". 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/vault.sol

Locations

```
/// SPDX-License-Identifier: GPL-3.0-or-later
pragma solidity ^0.8.0

import "@openzeppelin/contracts/token/ERC20/ERC20.sol";
```

LOW State variable visibility is not set.

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

SWC-108

Source file

/contracts/vault.sol

Locations

```
/// @notice Governance address to add/remove executors.

address public override governance;

address pendingGovernance;

48

49 /// @notice Creates a new Vault that accepts a specific underlying token.
```

LOW State variable visibility is not set.

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

SWC-108

Source file

/contracts/vault.sol

```
132
133 /// @notice list of trade executors connected to vault.
134 AddrArrayLib.Addresses tradeExecutorsList;
135
136 /// @notice Emitted after the vault deposits into a executor contract.
```

LOW

Potential use of "block.number" as source of randonmness.

SWC-120

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source file

/contracts/vault.sol

Locations

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262 }
263 
264 /// @notice gives the number of trade executors.
265 /// @return The number of trade executors.
266 function totalExecutors() public view returns (uint256) {
```

LOW

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