

Analysis 13aaa49c-fcee-4436-a2ef-bda037c55ae6

MythX

Started

Finished Mon Jul 03 2023 19:04:06 GMT+0000 (Coordinated Universal Time)

Mode Standard

Client Tool Mythx-Cli-0.7.3

Main Source File Contracts/SilicaEthStaking.Sol

DETECTED VULNERABILITIES

(HIGH (MEDIUM (LOW o o 2

ISSUES

LOW A floating pragma is set.

The current pragma Solidity directive is ""^0.8.6"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is SWC-103 especially important if you rely on bytecode-level verification of the code.

Source file

contracts/SilicaEthStaking.sol

Locations

```
1  // SPDX-License-Identifier: MIT
2  pragma solidity ^8.8.6
3
4  import {AbstractSilicaV2_1} from "./AbstractSilicaV2_1.sol";
```

LOW Requirement violation.

A requirement was violated in a nested call and the call was reverted as a result. Make sure valid inputs are provided to the nested call (for instance, via passed arguments).

SWC-123

Source file

contracts/SilicaEthStaking.sol

Locations

```
function getLastIndexedDay() internal view override returns (uint32) {

IOracleEthStaking oracleEthStaking = IOracleEthStaking(

IOracleRegistry(oracleRegistry).getOracleAddress(address(rewardToken), COMMODITY_TYPE

);

uint32 lastIndexedDayMem = oracleEthStaking.getLastIndexedDay();
```

Source file

contracts/SilicaEthStaking.sol

```
Locations
       10 | import "@openzeppelin/contracts/token/ERC20/ERC20.sol";
       11
            contract SilicaEthStaking is AbstractSilicaV2_1 {
       12
            uint8 public constant COMMODITY_TYPE = 2;
       13
       14
            function decimals() public pure override returns (uint8) {
       15
            return 18;
        16
            constructor() ERC20("Silica", "SLC") {}
       19
        20
            /// @notice Function to return the last day silica is synced with Oracle
       21
            function getLastIndexedDay() internal view override returns (uint32) {
       22
            23
       24
        25
            uint32 lastIndexedDayMem = oracleEthStaking.getLastIndexedDay();
       26
            require(lastIndexedDayMem != 0, "Invalid State");
       28
            return lastIndexedDayMem;
        29
       30
       31
            /// @notice Function to return the amount of rewards due by the seller to the contract on day inputed
       32
             function getRewardDueOnDay(uint256 _day) internal view override returns (uint256) {
        33
            IOracleEthStaking oracleEthStaking = IOracleEthStaking
IOracleRegistry(oracleRegistry).getOracleAddress(address(rewardToken), COMMODITY_TYPE
       34
        35
       36
               uint256 baseRewardPerIncrementPerDay, , , , , ) = oracleEthStaking.get(_day);
       38
            return RewardMath.getEthStakingRewardDue(totalSupply(), baseRewardPerIncrementPerDay, decimals());
        39
       40
            /// @notice Function to return an array with the amount of rewards due by the seller to the contract on days in range inputed function getRewardDueInRange(uint256 _firstDay _uint256 _lastDay) internal view override returns (uint256[] memory)
       42
            IOracleEthStaking oracleEthStaking = IOracleEthStaking |
IOracleRegistry(oracleRegistry).getOracleAddress(address(rewardToken), COMMODITY_TYPE
       44
       45
       46
            uint256[] memory baseRewardPerIncrementPerDayArray = oracleEthStaking.getInRange(_firstDay, _lastDay);
       47
            uint256[] memory rewardDueArray = new uint256[](baseRewardPerIncrementPerDayArray.length);
       49
       50
            uint8 decimalsMem = decimals();
       51
            uint256 totalSupplyCopy = totalSupply();
             for (uint256 i = 0; i < baseRewardPerIncrementPerDayArray length; <math>i + +) (
```

```
rewardDueArray i RewardMath getEthStakingRewardDum totalSupplyCopy baseRewardPerIncrementPerDayArray i decimalsMem

return rewardDueArray

return rewardDueArray

note that the commodity type the seller is selling with this contract

return ine commodity type the seller is selling with this contract

return commodity type the seller is selling with this contract

return commodityType external pure override returns (uint8)

return COMMODITY_TYPE

return getDecimals of the contract

return decimals external pure override returns (uint8)

return decimals external pure override returns (uint8)

return decimals external pure override returns (uint8)
```