

Protocol Audit Report

Version 1.0

2024-11-CONCRETE November 23, 2024

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Vesko.io

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Issues Found

Severity	Number of Issues Found
Gas	1
Non Critical	1
Informational	1
Total	3

Gas

[G-1] Perform validations early to avoid unnecessary writes or external calls

Description: In /src/registries/VaultRegistry.sol in the addVault function, a check can be performed before making external calls and working with state variables.

Recommended Mitigation:

```
function addVault(address vault_, bytes32 vaultId_) external override
    onlyOwner {
    if (vault_ == address(0)) revert VaultZeroAddress();

if (vaultExists[vault_]) {
    revert VaultAlreadyExists();
}
```

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```
8
       + if (allVaultsCreated.length == totalVaultsAllowed) revert
           TotalVaultsAllowedExceeded(allVaultsCreated.length);
9
       vaultExists[vault_] = true;
       vaultIdToAddressArray[vaultId_].push(vault_);
11
12
       allVaultsCreated.push(vault_);
13
          if (allVaultsCreated.length > totalVaultsAllowed) revert
14
          TotalVaultsAllowedExceeded(allVaultsCreated.length);
15
16
       address underlyingAsset = IERC4626(vault_).asset();
17
       assert(vaultsByToken[underlyingAsset].add(vault_));
18
19
       if (vaultsByToken[underlyingAsset].length() > vaultByTokenLimit) {
20
21
           revert VaultByTokenLimitExceeded(underlyingAsset, vaultsByToken
               [underlyingAsset].length());
22
23
       emit VaultAdded(vault_, vaultId_);
24 }
```

Non Critical Issues

[NC-1] In ImplementationRegistry the comments suggest that the getHistoricalImplementationAddresses function gets all the implementations ever added but that is not the case because removeImplementation deletes implementations from a state variable (allImplementations) that is returned in getHistoricalImplementationAddresses

Code Snippets:

```
1 // removeImplementation function:
2 allImplementations.pop();
3
4 // getHistoricalImplementationAddresses function:
5 return allImplementations;
```

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Informational

[I-1] Typo in Errors

• "InvalidSubstraction" should be "InvalidSubtraction"

```
1 error InvalidSubstraction();
```

• "Withdrawl" is a typo; it should be "Withdrawal."

```
1 error InvalidWithdrawlQueue();
2 error UnfinalizedWithdrawl(address queue);
```

• "Rewardrate" is not camel-cased properly. It should be "RewardRate."

```
1 error SwapperBaseRewardrate();
2 error SwapperBonusRewardrateUser();
3 error SwapperBonusRewardrateCtToken();
4 error SwapperBonusRewardrateSwapToken();
```