



Protocol Audit Report

Version 1.0

Vesko.io

December 5, 2024

2024-11-CONCRETE

Vesko.io

November 23, 2024

Issues Found

Severity	Number of Issues Found
Gas	1
Total	1

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:

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

```
1 if (vaultExists[vault_]) {  
2     revert VaultAlreadyExists();  
3 }  
4  
5 + if (allVaultsCreated.length == totalVaultsAllowed) revert  
   TotalVaultsAllowedExceeded(allVaultsCreated.length);  
6
```

```
7 vaultExists[vault_] = true;  
8 vaultIdToArray[vaultId_].push(vault_);  
9 allVaultsCreated.push(vault_);  
10  
11 - if (allVaultsCreated.length > totalVaultsAllowed) revert  
    TotalVaultsAllowedExceeded(allVaultsCreated.length);  
12  
13 address underlyingAsset = IERC4626(vault_).asset();  
14  
15 assert(vaultsByToken[underlyingAsset].add(vault_));  
16  
17 if (vaultsByToken[underlyingAsset].length() > vaultByTokenLimit) {  
18     revert VaultByTokenLimitExceeded(underlyingAsset, vaultsByToken[  
19         underlyingAsset].length());  
20 }  
21 emit VaultAdded(vault_, vaultId_);  
  
}
```