dClimate

Audit by Team1 (imagawa)

SIL-001: Admin role remains unchanged after call to setGovernance

Tools/Techniques: Manual
Difficulty+Impact: Medium

Details
The admin role is not updated during the call to setGovernance, which means if the governance address is updated, this new address is unable to whitelist provider addresses.

Mitigation
https://github.com/dClimate/dclimate-monorepo/pull/527/files

SIL-002: Unable to revoke a previously whitelisted provider

Tools/Techniques: Manual
Difficulty+Impact: Minor

Details
There is no way to remove a provider after they've been whitelisted.

Mitigation
https://github.com/dClimate/dclimate-monorepo/pull/527/files

SIL-003: Consider synchronizing calls to setStakeReq and setStakeGracePeriod

Tools/Techniques: Manual
Difficulty+Impact: Informational

Details
As the comment on L154 of Assets.sol suggests, setStakeGracePeriod should be called after setStakeReq to ensure the stake requirement is enabled.

Mitigation
Consider calling setStakeGracePeriod in the initial call to setStakeReq to ensure both are set at the same time.

SIL-004: Use the onlyGovernance modifier rather than require statement

Tools/Techniques: Manual
Difficulty+Impact: Informational

Details
The call to setGovernance in Marketplace.sol and Providers.sol uses a require statement when the onlyGovernance modifier is available.

Mitigation
Consider using the onlyGovernance modifier on setGovernance similar to the other governance protected functions in Marketplace.sol and Providers.sol

SIL-005: Unnecessary require statement on linkAmount

Tools/Techniques: Manual
Difficulty+Impact: Informational

Details
The require statement on L191 of Providers.sol can be removed. Due to the use of Solidity version 0.8.7 if the _amount exceeds the linkAmount, the underflow will revert.

Mitigation
Remove the require statement to save gas.