Governing connected apps

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https://docs.microsoft.com/en-us/cloud-app-security/governance-actions

In this article

Applies to: Microsoft Cloud App Security

Governance enables you to control what your users do, in real time, across apps. For connected apps, you can apply governance actions to files or activities. Governance actions are integrated actions you can run on files or activities directly from Microsoft Cloud App Security. Governance actions control what your users do, in real time, across connected apps.

Note

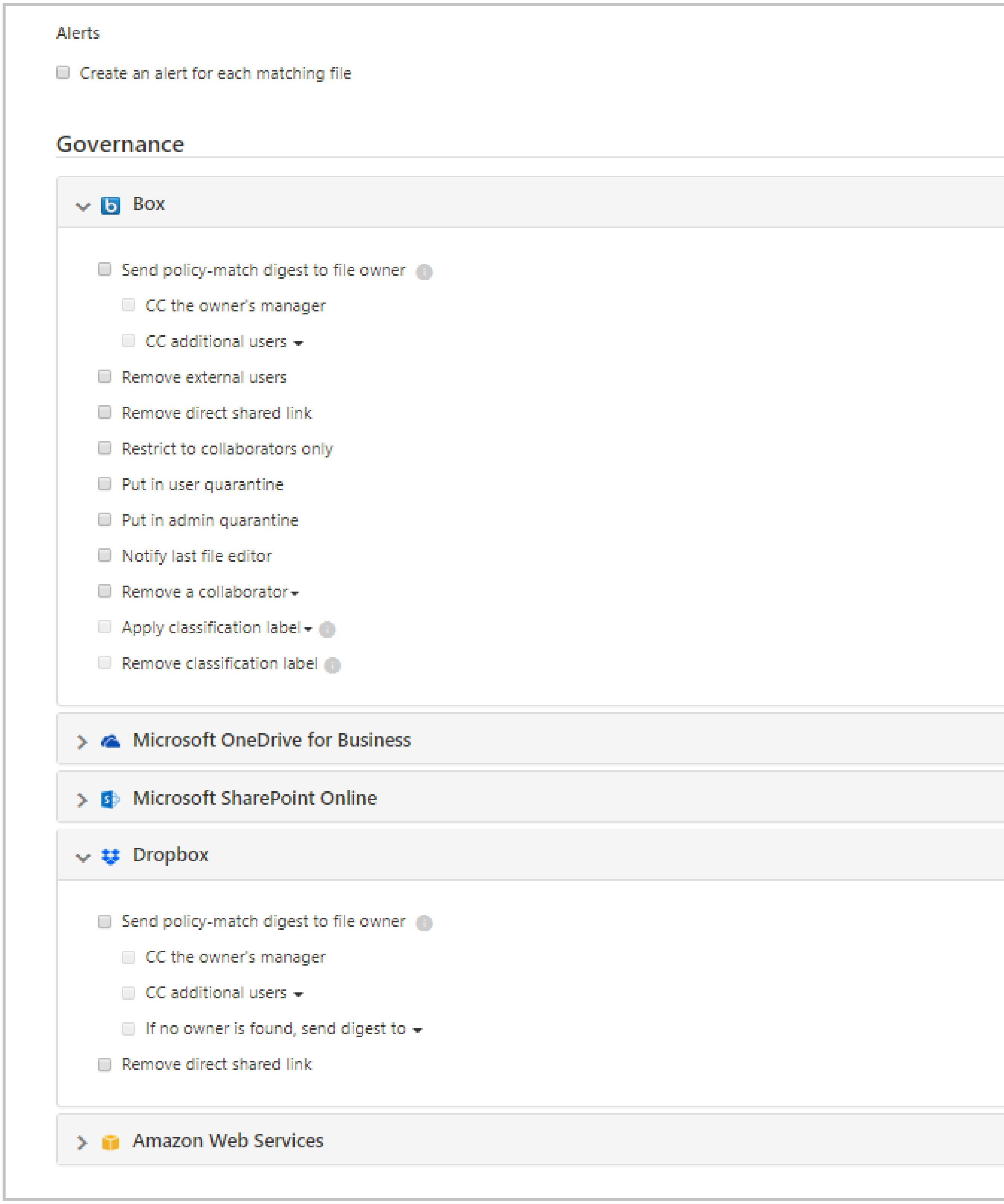
When Microsoft Cloud App Security attempts to run a governance action on a file but fails because the file is locked, it will automatically retry the governance action.

File governance actions

The following governance actions can be taken for connected apps either on a specific file, user or from a specific policy.

- **Notifications:**
  - **Alerts** – Alerts can be triggered in the system and propagated via email and text message, based on severity level.
  - **User email notification** – Email messages can be customized and will be sent to all violating file owners.
  - **Notify specific users** – Specific list of email addresses that will receive these notifications.
  - **Notify last file editor** – Send notifications to the last person who modified the file.
- **Governance actions in apps** - Granular actions can be enforced per app, specific actions vary depending on app terminology.
  - **Labeling**
    - **Apply label** - Ability to add an Azure Information Protection classification label.

        - **Remove label** - Ability to remove an Azure Information Protection classification label.
    - **Change sharing**
        - **Remove public sharing** – Allow access only to named collaborators, for example: Remove public access for G Suite and Remove direct shared link for Box.
        - **Remove external users** – Allow access only to company users.
        - **Make private** – Only Site Admins can access the file, all shares are removed.
        - **Remove a collaborator** – Remove a specific collaborator from the file.
        - **Reduce public access** - Set Publicly available files to be available only with a shared link. (Google)
        - **Expire shared link** - Ability to set an experation date for a shared link after which it will no longer be active. (Box)
        - **Change sharing link access level** - Ability to change the access level of the shared link between company only, collaborators only, and public. (Box)
    - **Quarantine**
        - **Put in user quarantine** – Allow self-service by moving the file to a user-controlled quarantine folder
        - **Put in admin quarantine** – File is moved to quarantine in the admin drive, and the admin has to approve it.
    - **Inherit permissions from parent** - This governance action enables you to remove specific permissions set for a file or folder in Office 365. Then revert to whatever permissions are set for the parent folder.
    - **Trash** – Move the file to the trash folder. (Box, Dropbox, Google Drive, OneDrive, SharePoint)



Alerts

□ Create an alert for each matching file

Governance

Box

□ Send policy-match digest to file owner

□ CC the owner's manager

□ CC additional users ▾

□ Remove external users

□ Remove direct shared link

□ Restrict to collaborators only

□ Put in user quarantine

□ Put in admin quarantine

□ Notify last file editor

□ Remove a collaborator ▾

□ Apply classification label ▾

□ Remove classification label

Microsoft OneDrive for Business

Microsoft SharePoint Online

Dropbox

□ Send policy-match digest to file owner

□ CC the owner's manager

□ CC additional users ▾

□ If no owner is found, send digest to ▾

□ Remove direct shared link

Amazon Web Services

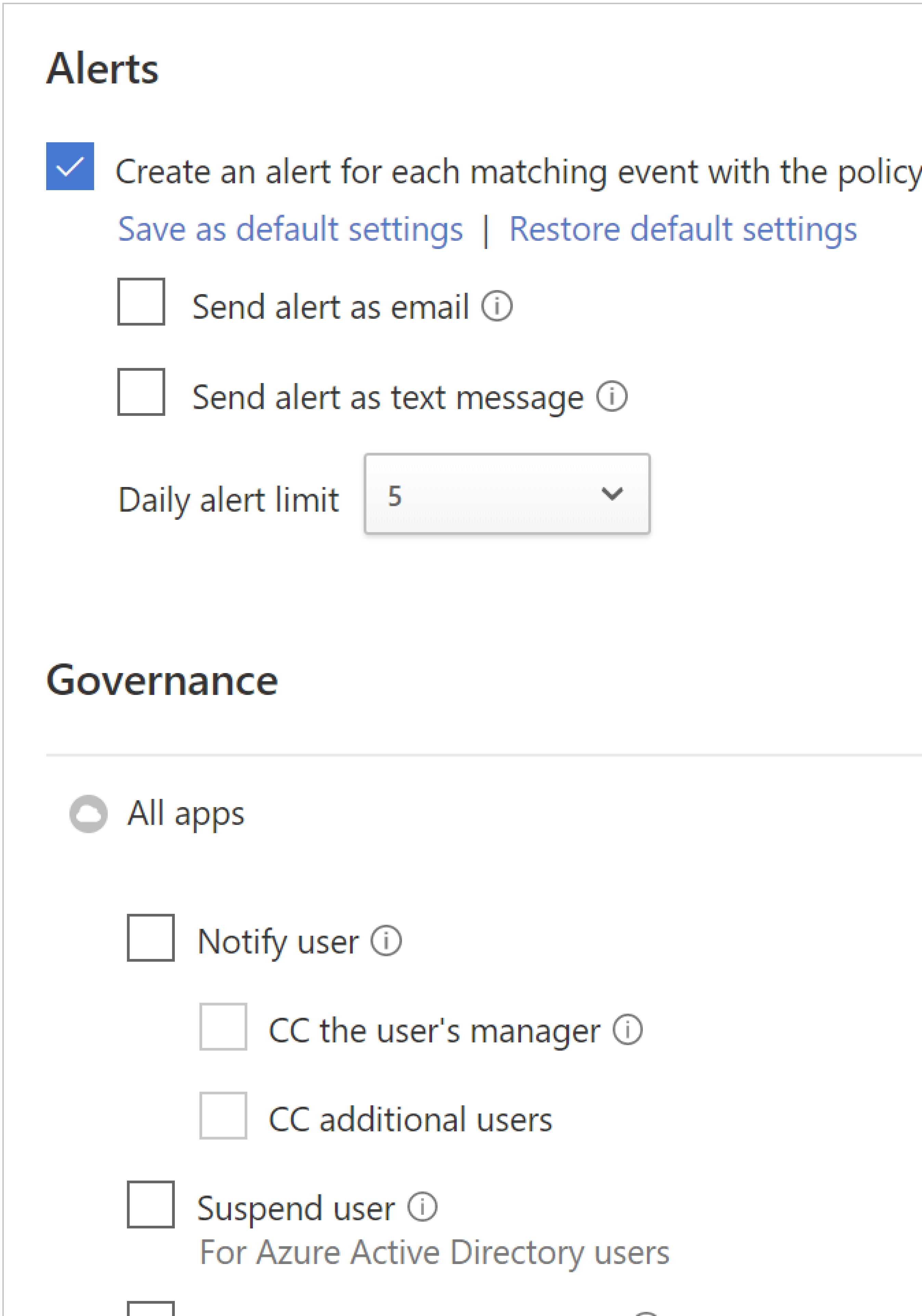
Activity governance actions

- **Notifications**
    - **Alerts** – Alerts can be triggered in the system and propagated via email and text message, based on severity level.
    - **User email notification** – Email messages can be customized and will be sent to all violating file owners.
    - **Notify additional users** – Specific list of email addresses that will receive these notifications.
- **Governance actions in apps** - Granular actions can be enforced per app, specific actions vary depending on app terminology.
    - **Suspend user** – Suspend the user from the application.

      Note

      If your Azure Active Directory (Azure AD) is set to automatically sync with the users in your Active Directory on-premises environment the settings in the on-premises environment will override the Azure AD settings and this governance action will be reverted.

    - **Require user to sign in again** – Signs the user out and requires them to sign in again.
    - **Confirm user compromised** - Set the user's risk level to high. This causes the relevant policy actions defined in Azure AD to be enforced. For more information How Azure AD works with risk levels, see How does Azure AD use my risk feedback.



Alerts

☑ Create an alert for each matching event with the policy

Save as default settings | Restore default settings

□ Send alert as email ⓘ

□ Send alert as text message ⓘ

Daily alert limit 5

Governance

All apps

□ Notify user ⓘ

□ CC the user's manager ⓘ

□ CC additional users

□ Suspend user ⓘ
For Azure Active Directory users

Governance conflicts

After creating multiple policies, a situation may arise in which the governance actions in multiple policies overlap. In this case, Cloud App Security will process the governance actions as follows:

Conflicts between policies

- If two policies contain actions that are contained on in each other (for example, **Remove external shares** is included in **Make private**), Cloud App Security will resolve the conflict and the stronger action will be enforced.
- If the actions are unrelated (for example, **Notify owner** and **Make private**). Both actions will take place.
- If the actions conflict (for example **Change owner to user A** and **Change owner to user B**), different results may result from every match. It's important to change your policies to prevent conflicts because they may result in unwanted changes in the drive that will be hard to detect.

Conflicts in user sync

- If your Azure AD is set to automatically sync with the users in your Active Directory on-premises environment, the settings in the on-premises environment will override the Azure AD settings and this governance action will be reverted.

Governance log

The Governance log provides a status record of each task that you set Cloud App Security to run, including both manual and automatic tasks. These tasks include those you set in policies, governance actions that you set on files and users, and any other action you set Cloud App Security to take. The Governance log also provides information about the success or failure of these actions. You can choose to retry or revert some of the governance actions from the Governance log.

The following table is the full list of actions the Cloud App Security portal enables you to take. These actions are enabled in various places throughout the console as described in the **Location** column. Each governance action taken is listed in the Governance Log. For information about how governance actions are treated when there are policy conflicts, see Policy Conflicts.

Table 1

Location	Target object type	Governance action	Description	Related connectors
Accounts	File	Remove user's collaborations	Remove all the collaborations of a specific user for any files - good for	Box, G Suite

Table 1

Location	Target object type	Governance action	Description	Related connectors
			people leaving the company.	
Accounts	Account	Unsuspend user	Unsuspends the user	G Suite, Box, Office, Salesforce
Accounts	Account	Account settings	Takes you to the account settings page in the specific app (for example, inside Salesforce).	All apps -One Drive and SharePoint settings are configured from within Office.
Accounts	File	Transfer all files ownership	On an account, you transfer one user's files to all be owned by a new person you select. The previous owner becomes an editor and can no longer change sharing settings. The new owner will receive an email notification about the change of ownership.	G Suite
Accounts, Activity policy	Account	Suspend user	Sets user to have no access and no ability to sign in. If they're logged in when you set this action, they're immediately locked out.	G Suite, Box, Office, Salesforce
Activity policy, Accounts	Account	Require user to sign in again	Revokes all refresh tokens and session cookies issues to applications by the user. This action will prevent access to any of the organization's data and will force the user to sign into all applications again.	G Suite, Office
Activity policy, Accounts	Account	Confirm user compromised	Set the user's risk level to high. This causes the relevant policy actions defined in Azure AD to be enforced.	Office
Activity policy, Accounts	Account	Revoke admin privileges	Revokes privileges for an admin account. For example, setting an activity policy that revokes admin privileges	G Suite

Table 1

Location	Target object type	Governance action	Description	Related connectors
			after 10 failed login attempts.	
App dashboard > App permissions	Permissions	Unban app	In Google and Salesforce: remove the banning from the app and allow users to give permissions to the third-party app with their Google or Salesforce. In Office 365: restores the permissions of the third-party app's to Office.	G Suite, Salesforce, Office
App dashboard > App permissions	Permissions	Disable app permissions	Revoke a third-party app's permissions to Google, Salesforce, or Office. This is a one-time action that will occur on all existing permissions, but won't prevent future connections.	G Suite, Salesforce, Office
App dashboard > App permissions	Permissions	Enable app permissions	Grant a third-party app's permissions to Google, Salesforce, or Office. This is a one-time action that will occur on all existing permissions, but won't prevent future connections.	G Suite, Salesforce, Office
App dashboard > App permissions	Permissions	Ban app	In Google and Salesforce: revoke a third-party app's permissions to Google or Salesforce and ban it from receiving permissions in the future. In Office 365: doesn't allow the permission of third-party apps to access Office, but doesn't revoke them.	G Suite, Salesforce, Office
App dashboard > App permissions	Permissions	Revoke app	Revoke a third-party app's permissions to Google or Salesforce. This is a one-time action that will occur on all existing permissions, but won't prevent future connections.	G Suite, Salesforce
App dashboard >	Account	Revoke user	You can revoke specific	G Suite,

Table 1

Location	Target object type	Governance action	Description	Related connectors
App permissions		from app	users when clicking on the number under Users. The screen will display the specific users and you can use the X to delete permissions for any user.	Salesforce
Discover > Discovered Apps/IP addresses/Users	Cloud Discovery	Export discovery data	Creates a CSV from the discovery data.	Discovery
File policy	File	Trash	Moves the file in the user's trash.	Box, Dropbox, Google Drive, OneDrive, SharePoint
File Policy	File	Notify last file editor	Sends an email to notify the last person who edited the file that it violates a policy.	G Suite, Box
File Policy	File	Notify file owner	Sends an email to the file owner, when a file violates a policy. In Dropbox, if no owner is associated with a file, the notification will be sent to the specific user you set.	All apps
File Policy, Activity Policy	File, Activity	Notify specific users	Sends an email to notify specific users about a file that violates a policy.	All apps
File policy and Activity policy	File, Activity	Notify user	Sends an email to users to notify them that something they did or a file they own violates a policy. You can add a custom notification to let them know what the violation was.	All
File policy and Files	File	Remove editors' ability to share	In Google Drive, the default editor permissions of a file allow sharing as well. This governance action restricts this option and restricts file sharing to the owner.	G Suite
File policy and Files	File	Put in admin quarantine	Removes any permissions from the file and moves the	Office 365 SharePoint,

Table 1

Location	Target object type	Governance action	Description	Related connectors
			file to a quarantine folder in a location for the admin. This action enables the admin to review the file and remove it.	OneDrive for Business, Box
File policy and Files	File	Apply classification label	Applies an Azure Information Protection classification label to files automatically based on the conditions set in the policy.	Box, One Drive, G Suite, SharePoint
File policy and Files	File	Remove classification label	Removes an Azure Information Protection classification label from files automatically based on the conditions set in the policy. You can remove labels only if they do not include protection, and they were applied from within Cloud App Security, not labels applied directly in Information Protection.	Box, One Drive, G Suite, SharePoint
File policy, Activity policy, Alerts	App	Require users to sign in again	You can require users to sign in again to all Office 365 and Azure AD apps as a quick and effective remediation for suspicious user activity alerts and compromised accounts. You can find the new governance in the policy settings and the alert pages, next to the Suspend user option.	Office 365, Azure AD
Files	File	Restore from user quarantine	Restores a user from being quarantined.	Box
Files	File	Grant read permissions to myself	Grants read permissions for the file for yourself so you can access the file and understand if it has a violation or not.	G Suite
Files	File	Allow editors to share	In Google Drive, the default editor permission of a file	G Suite

Table 1

Location	**Target object type**	**Governance action**	**Description**	**Related connectors**
			allows sharing as well. This governance action is the opposite of Remove editor's ability to share and enables the editor to share the file.	
Files	File	Protect	Protect a file with Azure Information Protection by applying an organization template.	Office 365 (SharePoint and OneDrive)
Files	File	Revoke read permissions form myself	Revokes read permissions for the file for yourself, useful after granting yourself permission to understand if a file has a violation or not.	G Suite
Files, File policy	File	Transfer file ownership	Changes the owner - in the policy you choose a specific owner.	G Suite
Files, File policy	File	Reduce public access	This action enables you to set publicly available files to be available only with a shared link.	G Suite
Files, File policy	File	Remove a collaborator	Removes a specific collaborator from a file.	G Suite, Box, One Drive, SharePoint
Files, File policy	File	Make private	Only Site Admins can access the file, all shares are removed.	G Suite, One Drive, SharePoint
Files, File policy	File	Remove external users	Removes all external collaborators - outside the domains configured as internal in Settings.	G Suite, Box, One Drive, SharePoint
Files, File policy	File	Grant read permission to domain	Grants read permissions for the file to the specified domain for your entire domain or a specific domain. This action is useful if you want to remove public access after granting access to the domain of people who need to work on it.	G Suite
Files, File policy	File	Put in user	Removes all permissions	Box, One

Table 1

Location	Target object type	Governance action	Description	Related connectors
		quarantine	from the file and moves the file to a quarantine folder under the user's root drive. This action allows the user to review the file and move it. If it's manually moved back, the file sharing isn't restored.	Drive, SharePoint
Files	File	Expire shared link	Set an expiration date for a shared link after which it will no longer be active.	Box
Files	File	Change sharing link access level	Changes the access level of the shared link between company only, collaborators only, and public.	Box
Files, File policy	File	Remove public access	If a file was yours and you put it in public access, it becomes accessible to anyone else configured with access to the file (depending on what kind of access the file had).	G Suite
Files, File policy	File	Remove direct shared link	Removes a link that is created for the file that is public but only shared with specific people.	Box
Settings> Cloud discovery settings	Cloud Discovery	Recalculate Cloud Discovery scores	Recalculates the scores in the Cloud app catalog after a score metric change.	Discovery
Settings> Cloud discovery settings > Manage data views	Cloud Discovery	Create custom Cloud Discovery filter data view	Creates a new data view for a more granular view of the discovery results. For example, specific IP ranges.	Discovery
Settings> Cloud discovery settings > Delete data	Cloud Discovery	Delete Cloud Discovery data	Deletes all the data collected from discovery sources.	Discovery
Settings> Cloud discovery settings > Upload logs manually/Upload logs automatically	Cloud Discovery	Parse Cloud Discovery data	Notification that all the log data was parsed.	