

Investigate

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<https://docs.microsoft.com/en-us/cloud-app-security/investigate>

Applies to: Microsoft Cloud App Security

After Microsoft Cloud App Security runs in your cloud environment, you'll need a stage of learning and investigating. Learn to use the Microsoft Cloud App Security tools to gain a deeper understanding of what's happening in your cloud environment. Based on your particular environment and how it's being used, you can identify the requirements for protecting your organization from risk. This article describes how to do an investigation to get a better understanding of your cloud environment.

Dashboards

The following dashboards are available to help you investigate apps in your cloud environment:

Dashboard	Description
Main dashboard	Overview of cloud status (users, files, activities) and required actions (alerts, activity violations, and content violations).
App dashboard: overview	Overview of app usage per location, usage graphs per number of users.
App dashboard: info	Information about app details, security, and compliance.
App dashboard: insights	
Analysis of data stored in the app, broken down by file type and file-sharing level.	
App dashboard: files	
Drill down into files; ability to filter according to owner, sharing level, and more. Perform governance actions like quarantine.	
App dashboard: accounts	Overview of all accounts/users linked to the app.
App dashboard: OAuth apps	
Drill down into OAuth apps currently deployed, like G	


TABLE 1

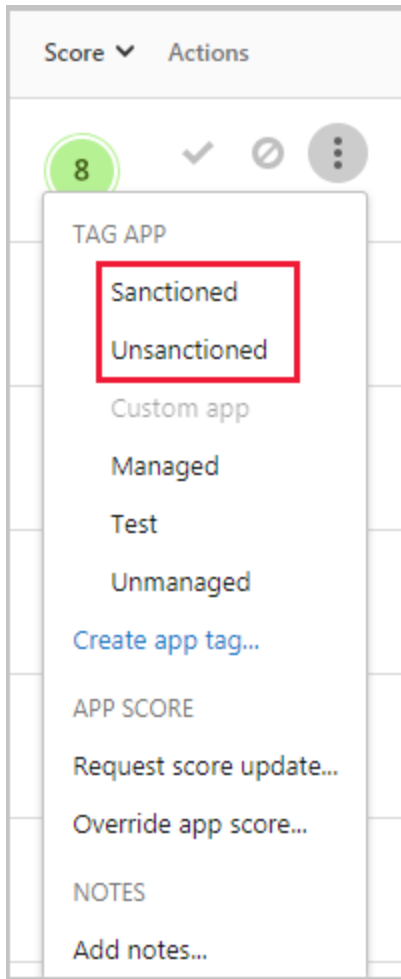
Dashboard	Description
Suite, and define policies.	
App dashboard: activity log	Drill down into all app activity; ability to filter according to users, ip address, and more.
App dashboard: alerts	Drill down into all app alerts; ability to filter according to status, category, severity, and more.
App dashboard: special privileged accounts	
Overview of users by privileged user type.	
User dashboard	A complete overview of the user profile in the cloud, locations, recent activities, related alerts.

Tag apps as sanctioned or unsanctioned

An important step to understanding your cloud is to tag apps as sanctioned or unsanctioned. After you sanction an app, you can filter for apps that aren't sanctioned and start migration to sanctioned apps of the same type.

- In the Cloud App Security console, go to the App catalog or Discovered apps.
- In the list of apps, on the row in which the app you want to tag as sanctioned

appears, choose the three dots at the end of the row  and choose **Mark as sanctioned**.



Use the investigation tools

1. In the Cloud App Security portal, go to **Investigate** and then look at the **Activity log** and filter by a specific app. Check the following items:
 - Who is accessing your cloud environment?
 - From what IP ranges?
 - What is the admin activity?
 - From what locations are admins connecting?
 - Are any outdated devices connecting to your cloud environment?
 - Are failed logins coming from expected IP addresses?
2. Go to **Investigate** and then **Files**, and check the following items:
 - How many files are shared publicly so that anyone can access them without a link?
 - With which partners are you sharing files (outbound sharing)?
 - Do any files have a sensitive name?
 - Are any of the files being shared with someone's personal account?

3. Go to **Investigate** and then **Users and accounts**, and check the following items:
 - Have any accounts been inactive in a particular service for a long time? Maybe you can revoke the license for that user to that service.
 - Do you want to know which users have a specific role?
 - Was someone fired but they still have access to an app and can use that access to steal information?
 - Do you want to revoke a user's permission to a specific app or require a specific user to use multi-factor authentication?
 - You can drill down into the user's account by clicking the three dots at the end of the user's account row and selecting an action to take. Take an action such as **Suspend user** or **Remove user's collaborations**. If the user was imported from Azure Active Directory, you can also click on **Azure AD account settings** to get easy access to advanced user management features. Examples of management features include group management, MFA, details about the user's sign ins, and the ability to block sign in.
4. Go to **Investigate**, followed by **Connected apps** then select an app. The app dashboard opens and gives you information and insights. You can use the tabs across the top to check:
 - What kind of devices are your users using to connect to the app?
 - What types of files are they saving in the cloud?
 - What activity is happening in the app right now?
 - Are there any connected third-party apps to your environment?
 - Are you familiar with these apps?
 - Are they authorized for the level of access they're permitted?
 - How many users have deployed them? How common are these apps in general?



Box for Microsoft Cloud storage



Dashboard

Info

Insights

Files

Accounts



Overview

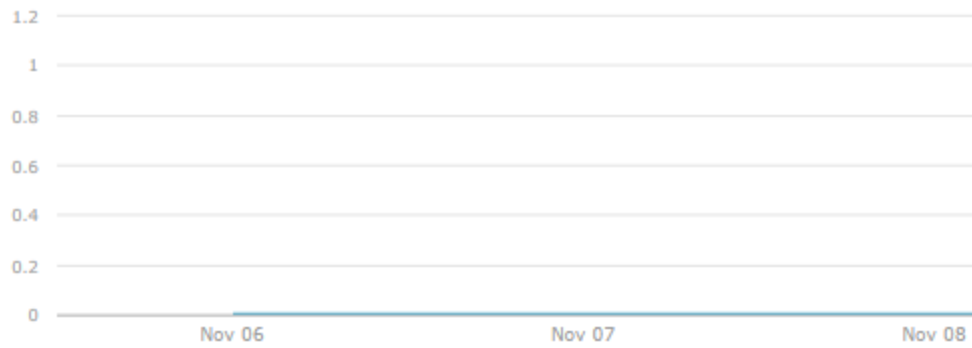
7 days



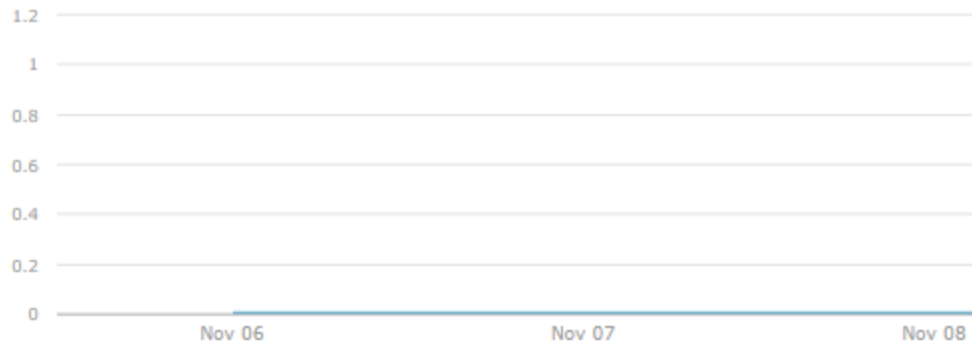
Active users map ?



Active users ?



Activity chart ?



5. Go to the **Cloud Discovery dashboard** and check the following items:
 - What cloud apps are being used, to what extent, and by which users?
 - For what purposes are they being used?
 - How much data is being uploaded to these cloud apps?
 - In which categories do you have sanctioned cloud apps, and yet, users are using alternative solutions?
 - For the alternative solutions, do you want to unsanction any cloud apps in your organization?
 - Are there cloud apps that are used but not in compliance with your organization's policy?

Sample investigation

Let's say that you assume you don't have any access to your cloud environment by risky IP addresses. As an example, let's say Tor. But you create a policy for risk IPs just to make sure:

1. In the portal, go to **Control** and choose **Templates**.
2. Choose the **Activity policy** for the **Type**.
3. At the end of the **Logon from a risky IP address** row, choose the plus sign (+) to create a new policy.
4. Change the policy name so you can identify it.
5. Under **Activities matching all of the following**, choose + to add a filter. Scroll down to **IP tag**, and then choose **Tor**.



Create activity policy

Policy template

Logon from a risky IP address

Policy name

Logon from a risky IP address tagged with Tor

Description

Alert when a user logs on to your sanctioned apps from a risky IP address. By addresses that have IP address tags of Anonymous proxy, TOR or Botnet. You the IP address ranges settings page.

Policy severity

High

Category

Threat detection

Create filters for the policy

Act on:

- Single activity
Every activity that matches the filters
- Repeated activity:
Repeated activity by a single user

ACTIVITIES MATCHING ALL OF THE FOLLOWING

×	IP address	▼	Category	▼	equa
×	Activity type	▼	equals	▼	Log on
×	IP address	▼	Tag	▼	equa

Alerts

Create alert [Use your organization's default settings](#)

Daily alert limit

Send alert as email

Send alert as text message

[Save these alert settings as the default for your organization](#)

Now that you have the policy in place, you're surprised to see that you get an alert that the policy was violated.

1. Go to the **Alerts** page and view the alert about the policy violation.
2. If you see that it looks like a real violation, you want to contain risk or remediate it.

To contain risk, you can send the user a notification to ask if the violation was intentional and if the user was aware of it.

You can also drill down into the alert and suspend the user until you can figure out what needs to be done.

3. If it's an allowed event that isn't likely to recur, you can dismiss the alert.

If it's allowed and you expect it to recur, you can change the policy so that this type of event won't be considered a violation in the future.