Microsoft Cloud App Security
A uniquely integrated Cloud Access Security Broker
Microsoft Cloud App Security

Powered by native integrations with industry-leading security and identity solutions including Azure Active Directory, Intune, and Azure Information Protection – gain visibility into all your cloud apps and services leveraging sophisticated analytics to identify and combat cyberthreats. Control how your data is consumed, no matter where it lives.

Shadow IT Discovery
Identify and manage the cloud apps used by your organization – in and beyond the corporate network.

Information Protection
Understand, classify and protect sensitive information when it travels in- and outside of your organization with automated processes and real-time controls.

Threat Protection
Detect unusual behavior across your cloud apps to identify ransomware, compromised users or rogue applications, analyze high-risk usage and remediate automatically to limit the risk to your organization.

Compliance Assessment
Assess the compliance of your organization’s apps against regulatory requirements such as GDPR, industry and legal standards and common security controls.
Shadow IT Discovery

Discover the cloud apps used in your organization.

Identify and manage the cloud apps used by your organization – in and beyond the corporate network.

Understand, classify and protect sensitive information when it travels in- and outside of your organization with automated processes and real-time controls.

Discover and control use of Shadow IT

On average, more than 1,100 cloud applications are used by enterprises today, of which 61% are not sanctioned by IT. This results in duplicate capabilities, apps not meeting compliance standards or posing a security risk to the organization without any IT oversight.

Discovery identifies current cloud apps, provides risk assessments and ongoing analytics and lifecycle management capabilities to control the use.

Assess risk and business readiness of your apps against >70 risk factors including regulatory and industry standards.

Govern discovered apps by sanctioning, onboarding them to Azure AD or blocking them on your network.

Seamless integrations to enhance and customize Discovery

- **Windows Defender ATP**
  - The agent extends Discovery beyond your organization’s network and enables machine-based Discovery regardless of the access point.

- **Azure Active Directory**
  - Easily onboard discovered apps to Azure Active Directory (AAD) to enable managed authentication and SSO.

- **Leading SWG providers**
  - Secure Web Gateway integrations allow inline app Discovery and the enforcement of governance actions.

Out of the box alerts

Get granular details about the usage of each discovered cloud app in your organization and dive deep into app categories, IP addresses, users and machines.

Discover of apps

Get notified when new risky or high volume apps are discovered, so you can evaluate and govern their usage.

Executive reporting

High level overview of key findings and recommendations on how to improve visibility into, and control over, Shadow IT in your organization.
Information Protection

Identify information at risk of exposure and remediate immediately with admin controls including quarantine, revoking privileges or notifying the owner.

Control user sessions in real-time
Monitor and control risky user sessions in real-time and prevent data exfiltration.

Automated governance
When policy violations occur, automatic governance actions like quarantining files or revoking permissions are applied.

Automatic labeling
When sensitive files are detected, AIP labels will automatically be applied across your cloud apps.

Classify, label and protect sensitive information when it is stored in or newly uploaded to cloud apps.

Control and monitor user sessions in real-time to prevent data exfiltration in low-trust scenarios, such as sessions from external users.

Protect your data when it travels outside of your organization
To maximize the impact of information, it needs to be ubiquitous to help people and businesses succeed. With data being on the move, the risk for exposure increases, as sensitive data is overshared inside or even outside of the organization.

Microsoft Cloud App Security enables you to identify your sensitive data across cloud apps, monitor when it is shared with risky environments and take necessary governance actions by classifying, labeling and protecting existing and new data in your environment.

Native integrations powering a unique information protection approach

Microsoft Information Protection
Comprehensive protection of sensitive data throughout its lifecycle across devices, apps, cloud services and on-premises. Integrated with Cloud App Security to extend the capabilities to all your cloud apps.

Conditional Access
Automated access control for accessing cloud apps, based on conditions you define. MCAS extends these controls into the user’s session to allow for real-time monitoring and granular control of any app with MCAS.

Intune
Managing mobile productivity securely and in a unified way. Leveraged to differentiate managed from unmanaged devices and apply necessary session controls.
Moving to the cloud presents a new threat vector for organizations. Attacks can introduce ransomware, compromised user accounts perform malicious activities, and overprivileged O-auth apps can gain access to sensitive data or privileged accounts.

Accelerate the safe adoption of cloud apps and limit the impact to your organization by leveraging sophisticated behavioral analytics, built-in detections and automatic remediation capabilities, informed by one of the industry's largest set of threat signals.

**Intelligent Security Graph**
A platform powering Microsoft security products and services by using advanced analytics to link threat intelligence and security signals. Microsoft operates global services at a massive scale with billions of security signals that MCAS leverages to power its Threat Detection.

**Secure Score**
Visibility into your Microsoft security position and provides an overview of which security features are available to reduce risk. MCAS feeds into the overall scoring and helps you protect your environment of cloud apps.

**Azure Security Center**
Enables Security posture management and threat protection for hybrid cloud workloads to ensure secure configuration of all your resources. Integrated and surfaced within MCAS.

**Advanced Threat Intelligence - enabling sophisticated detections**

**Detect insider threats and compromised accounts with sophisticated end user behavioral analytics (UEBA).**

**Identify and mitigate malware activities, including ransomware and other advanced cyberattacks.**

**Be alerted when rouge applications or overprivileged O-auth apps access your data and configure automatic remediation.**

**Session investigation**
Understand the context of multiple activities of a user across various apps, to detect patterns and identify compromised accounts.

**Dive into the details**
Investigate the individual files and locations that are affected with additional details about IP address, location, the machine and more.

**Remediation**
Apply governance actions, such as requiring users to sign in again or suspending the user account, when suspicious activities are identified.
Assess if your cloud apps meet your industry’s compliance requirements. Validate GDPR and other regulatory compliance. Protect sensitive data when it is uploaded to the cloud or shared inside and outside of your organization.

Assess the compliance of your cloud apps

Most organizations must comply with a set of regulations, governed by the industry and country they operate in. These dictate how organizations must manage, view, and control their data.

Microsoft Cloud App Security sources from a catalog of more than 16,000 cloud apps to discover the apps used in your environment and leverages >70 different parameters to assign a risk score to each one. These risk factors span general information, security, compliance and legal, and enable you to assess whether any given app meets the compliance requirements for your organization.

Powerful, built-in queries allow you to filter for specific requirements such as GDPR or FedRAMP, to tailor the discovery experience to your specific needs.

Get started on your compliance journey

1. Discover your cloud apps
   Get started with discovery to understand which cloud apps are being used in your organization.

2. Assess their compliance
   Leverage more than 70 risk factors to understand whether the discovered cloud apps meet your organization’s requirements.

3. Control sensitive data
   Create labels and file policies to identify and automatically protect sensitive information across your ecosystem of cloud apps.
Assess their compliance
Leverage more than 70 risk factors to understand whether the discovered cloud apps meet your organization's requirements.

Learn more about Microsoft Cloud App Security
aka.ms/mcas

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