

Microsoft Cloud App Security

One portal for insights and management of Cloud Applications



Who am I

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MICROSOFT'S SECURITY APPROACH



Identity and Access Management

Protect users' identities and control access to valuable resources.



Information Protection

Ensure documents and emails are seen only by authorized people.



Threat Protection

Protect against advanced threats and recover quickly when attacked.

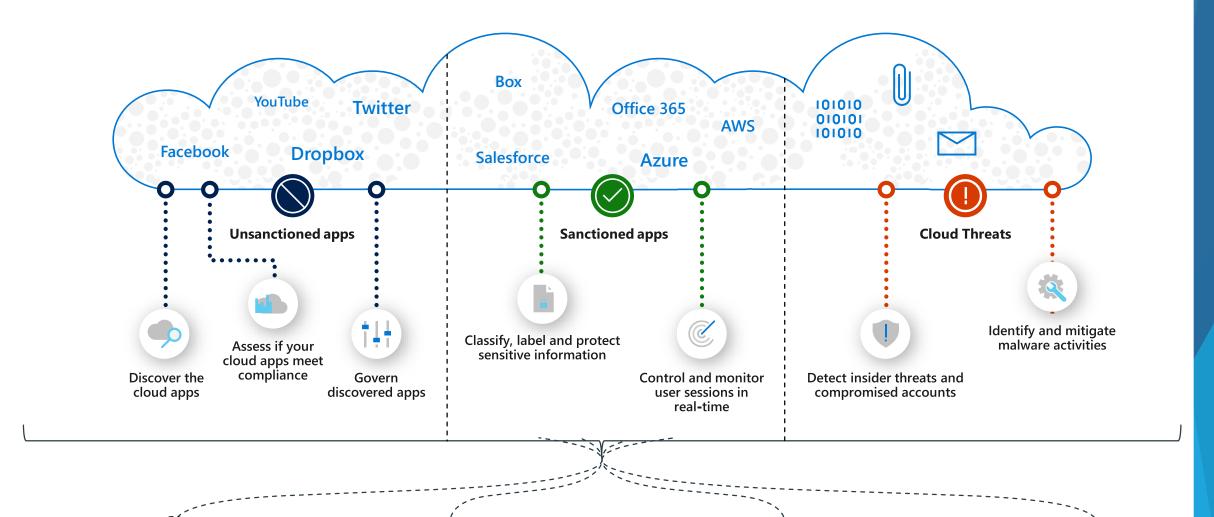


Security Management

Gain visibility and control over security tool

CASB USE CASES

Public/Home Wi-Fi



External Users

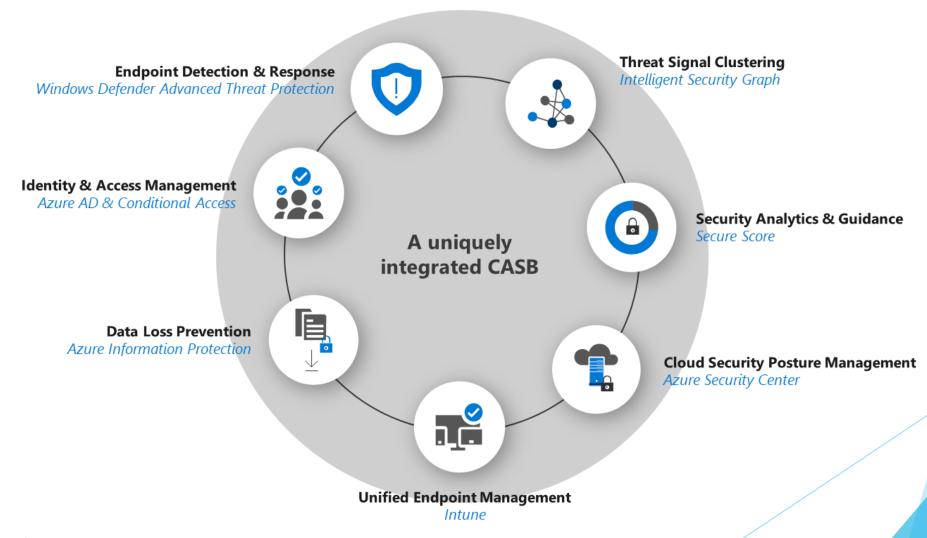
Unmanaged Devices

Sensitivity: Regular

Corporate HQ

MICROSOFT CLOUD APP SECURITY

Natively integrated with Microsoft 365 and beyond



How Microsoft Cloud App Security works

Discovery

Use traffic log data to discover the cloud apps in your organization and get detailed insights about traffic- and user data

Managing discovered cloud apps

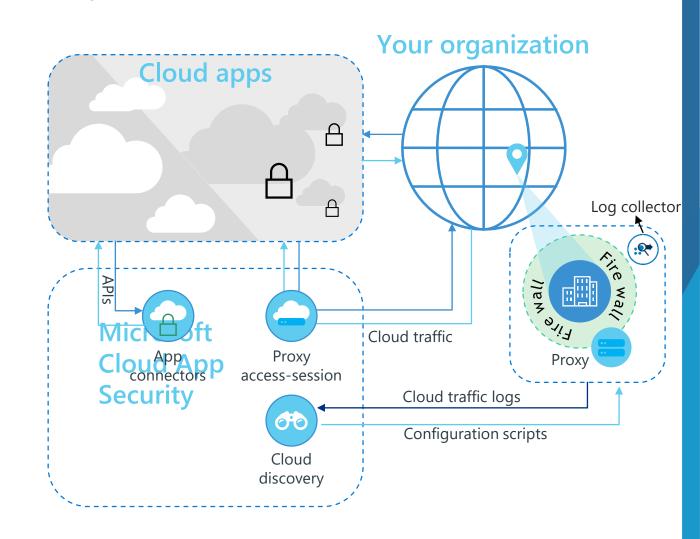
Evaluate the risk of discovered cloud apps and take action by sanctioning, tagging or blocking them

App connectors

Be alerted on user or file behavior anomalies and control the data stored in your cloud apps leveraging our API connectors

Conditional Access App Control

Leverage our reverse proxy infrastructure and integration with Azure AD Conditional Access to configure real-time monitoring and control



Detect

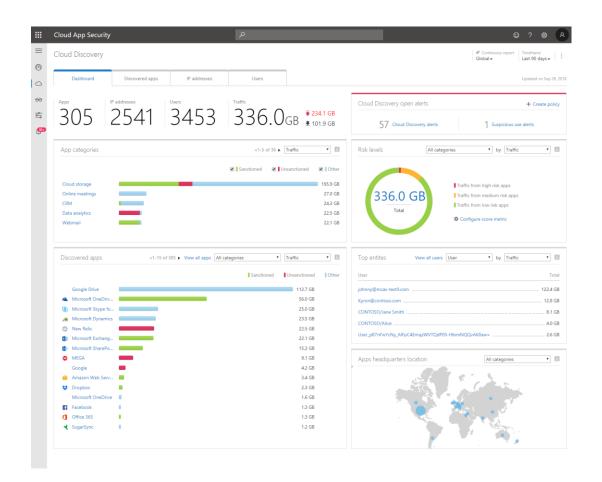
Cloud App Discovery

Discovery of Shadow IT

Discover cloud usage across all locations (HQ, Branches, Remote..)

Understand the risk of your apps

Risk assessment for 16,000+ cloud apps based on 70+ security and compliance risk factors



Integrate with your Secure Web Gateway

Enhanced visibility into Shadow IT and risk

Connect your existing Zscaler or iboss deployment to Cloud App Security for Discovery of Shadow IT

Seamless integration

Pivot from SWG portal to Cloud App Security for comprehensive risk assessment and investigation of user traffic

Control access to discovered cloud apps

Automatically sync apps that you tag as unsanctioned within Cloud App Security to your SWG and control user access

Removes the need to deploy a separate log collector

Stream data directly from SWG to Cloud App security with no additional deployments



Discover and manage risky OAuth apps

Discover OAuth apps

That users have authorized to connect to your Office 365 envrionment

Identify and manage permission levels

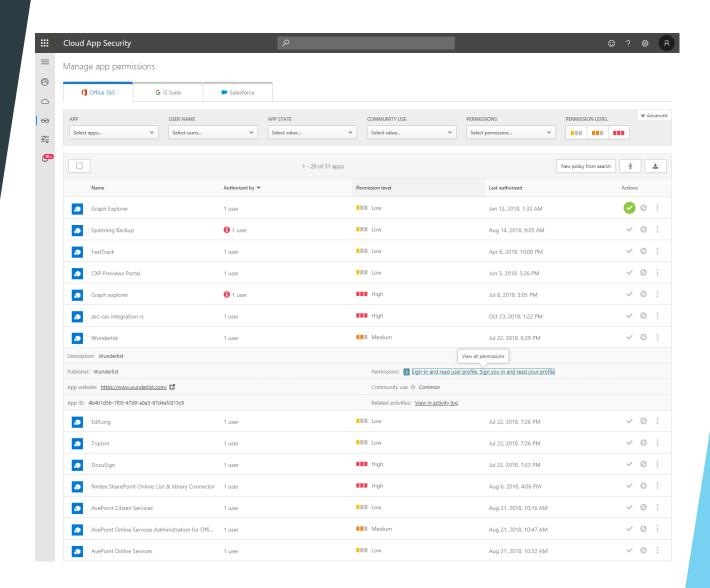
Understand the implications to your business and take action

Define custom policies

to alert on trending, new and risky apps in use

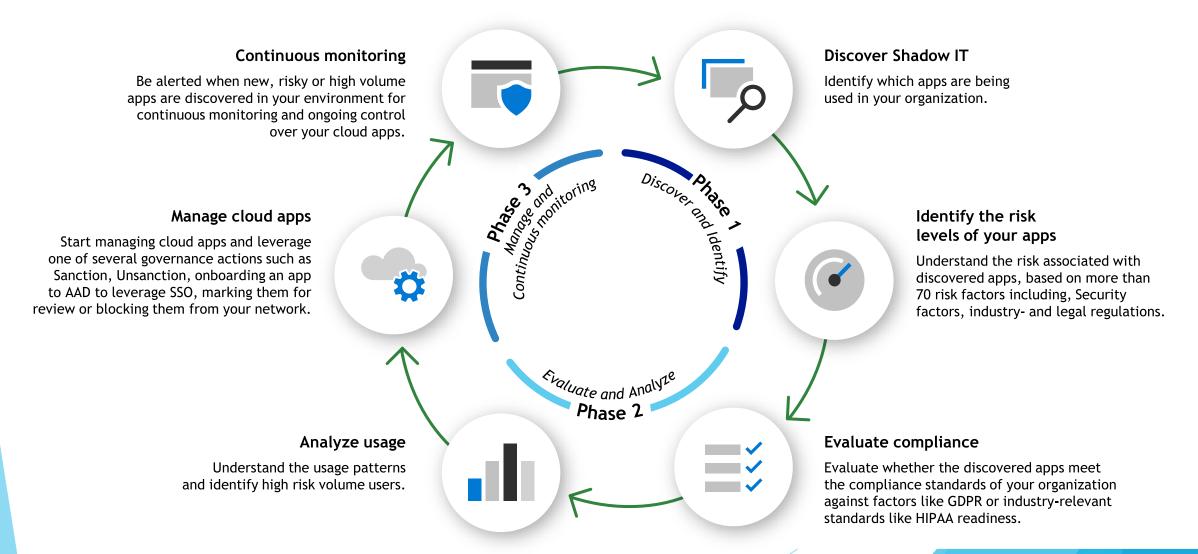
Automatically revoke apps

for the entire organization or specific users and groups



Shadow IT Discovery Lifecycle

Safely adopting cloud apps



MCAS Cloud Discovery architecture



Cloud Discovery with Microsoft Defender ATP

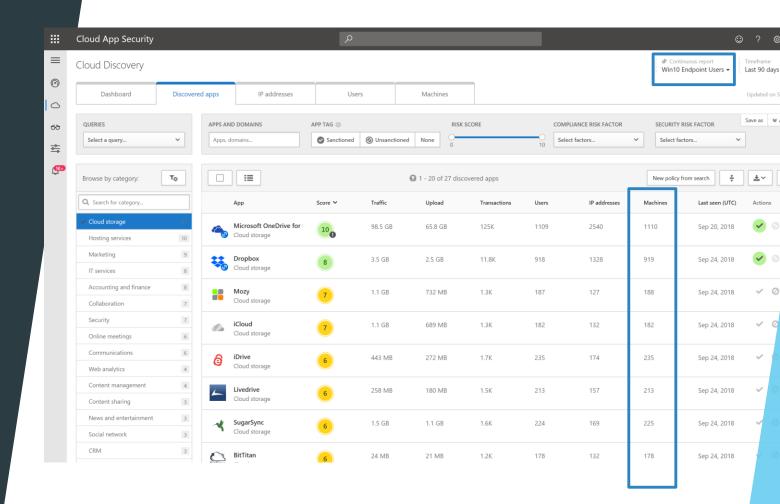
Native, endpoint-based Discovery of Shadow IT

Discovery of cloud apps beyond the corporate network from any Windows 10 machine

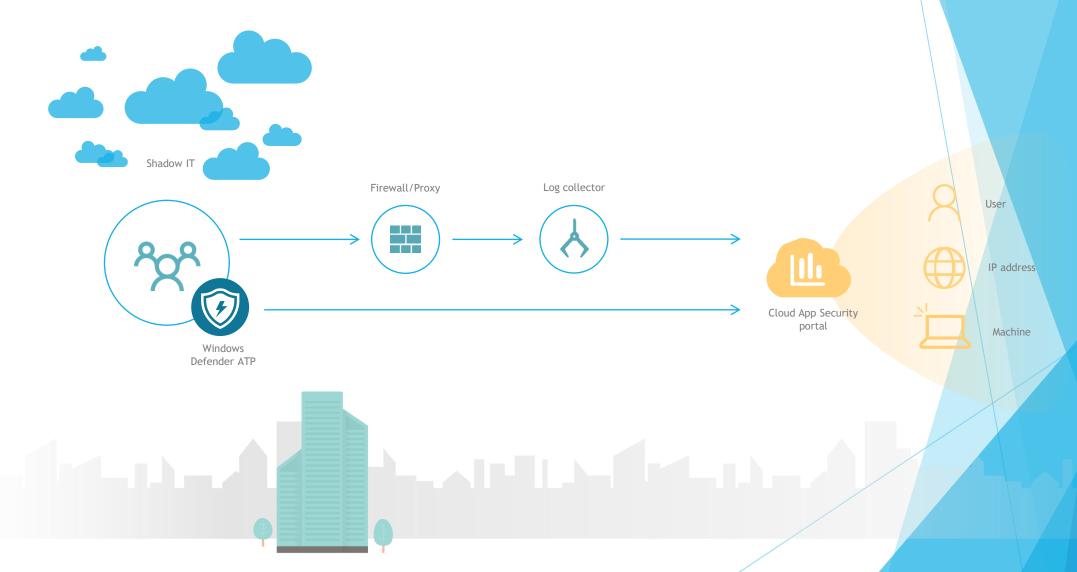
Single-click enablement

Machine-based Discovery

Deep dive investigation in Windows Defender ATP



MCAS Cloud Discovery architecture



Demo

Shadow IT Discovery en MDATP integratie

Protect

, Silvia

Conditional Access App Control

Context-aware session policies

Control access to cloud apps and sensitive data within apps based on user, location, device, and app

SAML, Open ID Connect, & on-prem apps

Support for Microsoft and non-Microsoft web apps, including on-prem apps onboarded via Azure AD App proxy

Enforce granular monitoring & control for risky user sessions

Data Exfiltration:

Block download, Apply AIP label on download

Block print

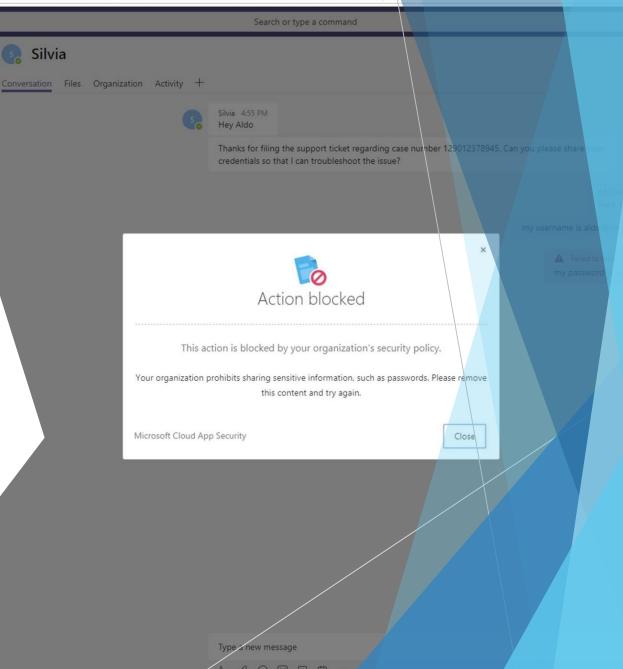
Block copy/cut

Block custom activities: (e.g., IMs with sensitive content

Data Infiltration:

Block upload

Block paste



nagement + Billing

+ support

Conditional Access App source Control

Unique integration with Azure AD Conditional Access

Selective routing to MCAS based on the session risk determined by Conditional Access to optimize end user productivity

Simple deployment

Built-in policies that can be configured directly within the Azure AD portal for an easy deployment.

Control your on-prem apps

With the same powerful real-time controls by integrating them with Azure AD Application Proxy

Worldwide Azure datacenters infrastructure

MCAS leverages Azure data centers across the world to optimize performance and user experience

Route Charles to CAS from no... × Session 1 Info Delete Session controls enable limited experiences within a cloud app. Name session usage requirements. Route Charles to CAS from non-compliant dev Use app enforced restrictions 1 Assignments This control only works with supported apps. Currently Users and groups (1) Exchange Online and Specific users included SharePoint Online are the on cloud apps that support app enforced restrictions. Click Cloud apps 1 here to learn more. 1 app included ✓ Use Conditional Access App Control Conditions 6 1 condition selected Use custom controls... Monitor only Block downloads Access controls Use custom controls. Grant 6 control 0 controls selected Session 6 Use Conditional Access App Con... Configu **Enable policy** On

Home > MCAS Contoso 9 > Conditional access - Policies > Route Charles to CAS fi



ADFS

MSA

Google ID

Android

É iOS

MacOS

Windows

Windows
Defender ATP

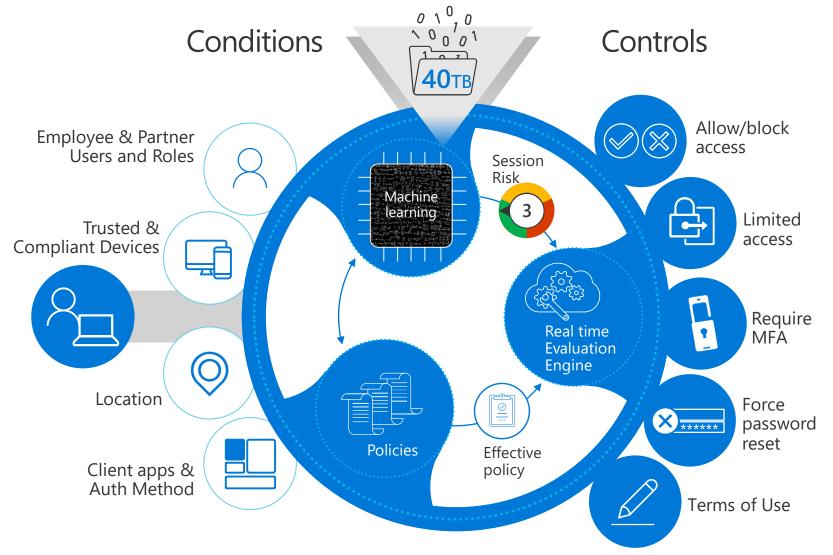


Corporate Network

Browser apps

Client apps

AZURE AD CONDITIONAL ACCESS





Microsoft Cloud

Microsoft Cloud App Security

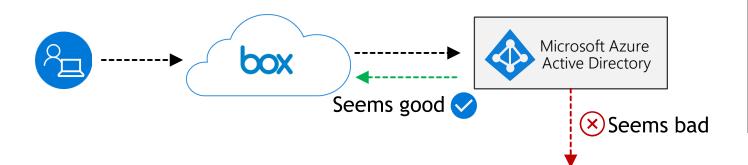


Cloud SaaS apps



On-premises apps

CONDITIONAL ACCESS APP CONTROL

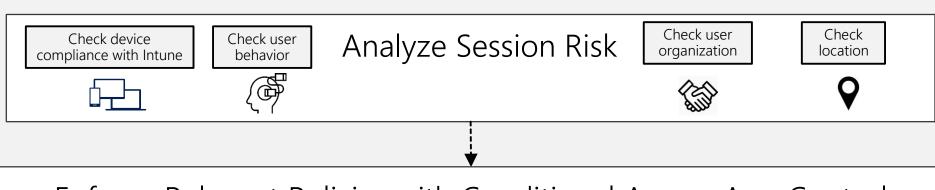


Microsoft is better together!

Cloud App Security integrates with:

- Azure Active Directory
- Azure Information Protection
- Microsoft Intune
 to protect any app in your
 organization.

Microsoft Cloud App Security



Enforce Relevant Policies with Conditional Access App Control

Protect downloads from unmanaged devices with AIP Monitor and alert on actions when user activity is suspicious



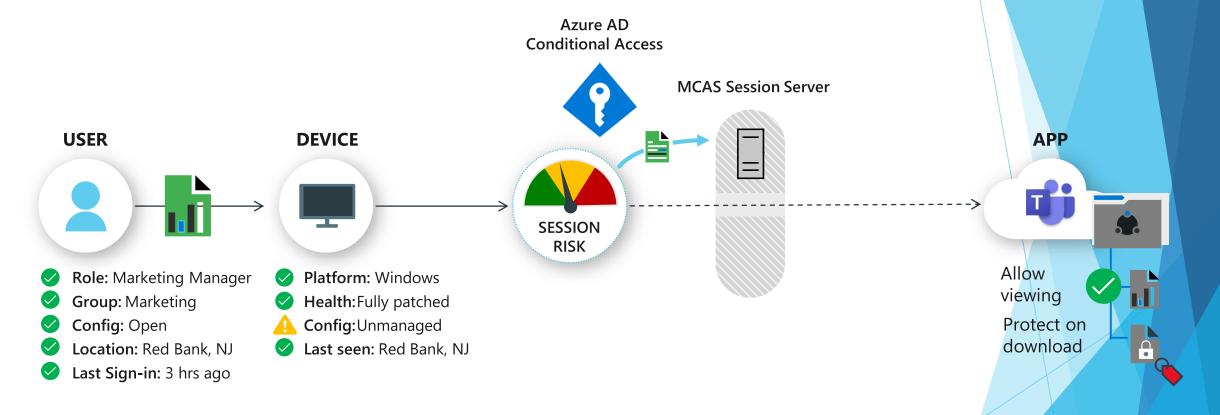
Enforce read-only mode in applications for partner (B2B) users Require MFA and define session timeouts for unfamiliar locations

Demo

Conditional Access integratie

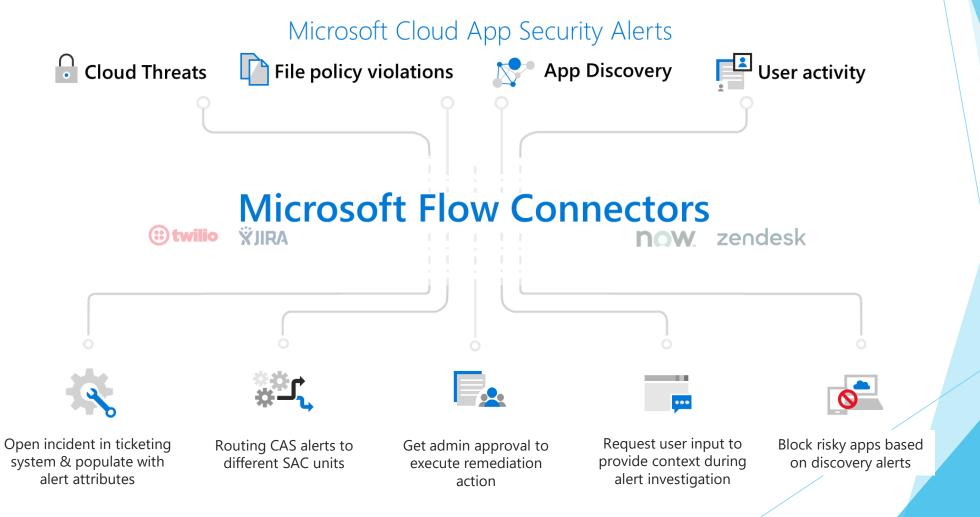
USE CASE: PREVENT DOWNLOAD OF FILES

Risk based in-session controls



Respond

Automated security workflow



Demo

Microsoft Flow integratie

Recap

Discover the use of Cloud Applications

Integration of other Microsoft Products in MCAS

Protect and Monitor the use of Cloud applications

Use Microsoft Flow to automate your security workflows



Thankyou