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Protect all your cloud apps with Azure AD and Cloud App Security

10.2.2021

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Public Cloud and Microsoft 365 Hero @ Elisa Oyj

- 11+ yrs in
- 7+ yrs in
- Currently working much with modern public cloud security solutions

Microsoft 365 CERTIFIED ENTERPRISE ADMINISTRATOR EXPERT

Microsoft CERTIFIED AZURE SOLUTIONS ARCHITECT EXPERT

MICROSOFT CERTIFIED TRAINER Microsoft MCT Trainer 2020 - 2021

Google Cloud Certified ASSOCIATE CLOUD ENGINEER

Lintuala MarkusLintuala bloggerz.cloud

Agenda

- What kind of applications we are interested in?
- Centralized Identity
- Types of application publishing
- What is Cloud App Security
- What is access and session controls
- Application management in Cloud App Security
- Where to start?
- What I suggest not to do 😁

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What kind of cloud application we are interested in?

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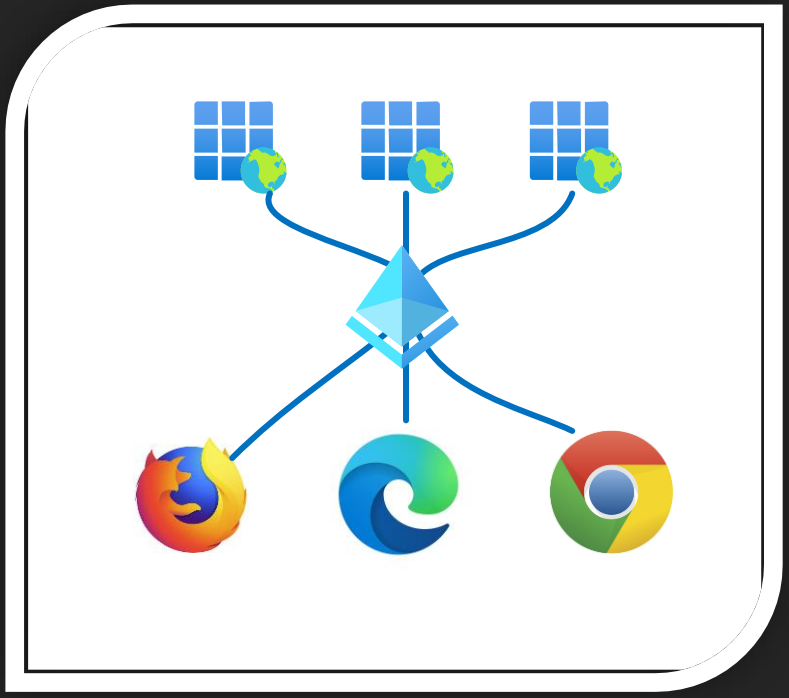
- Uses your company identities
- Used with a browser
- Can be accessed from the internet



Benefit of centralized identity

- Only one identity for all cloud applications
- Much easier and safer for end user
- End-user authenticates once to Azure AD
- Centralized security

Security perspective of centralized identity

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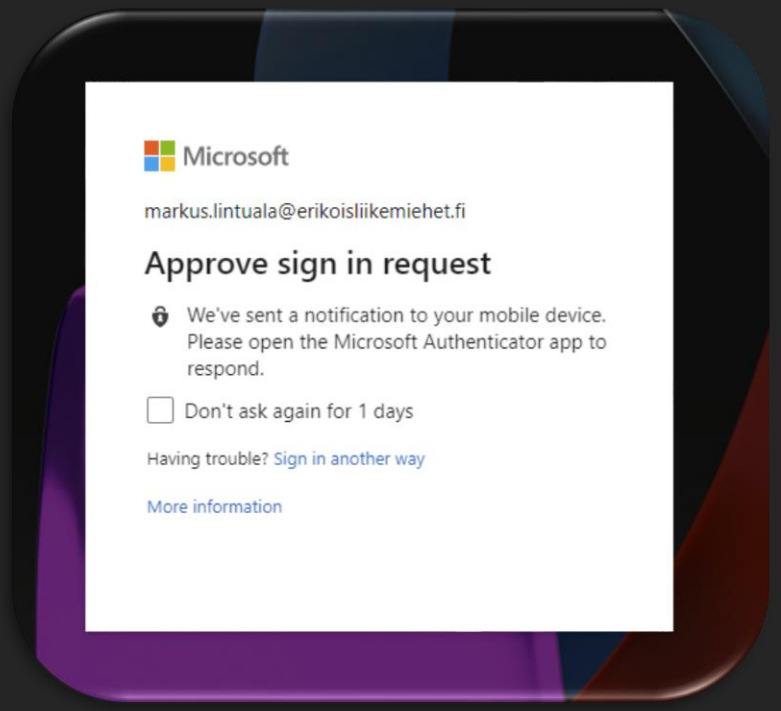
- Centralized identity protection (Conditional Access, MFA, Identity Protection etc.)
- Centralized logging
- Single-sign-on capabilities
- No need to trust for external authentication providers
- Make any app authentication *passwordless*

Traditional application publishing

- With or without MFA
- Access allowed from unmanaged device
- Risk for data leakage
- No control or monitor for anything that is happening in session



Secure application publishing

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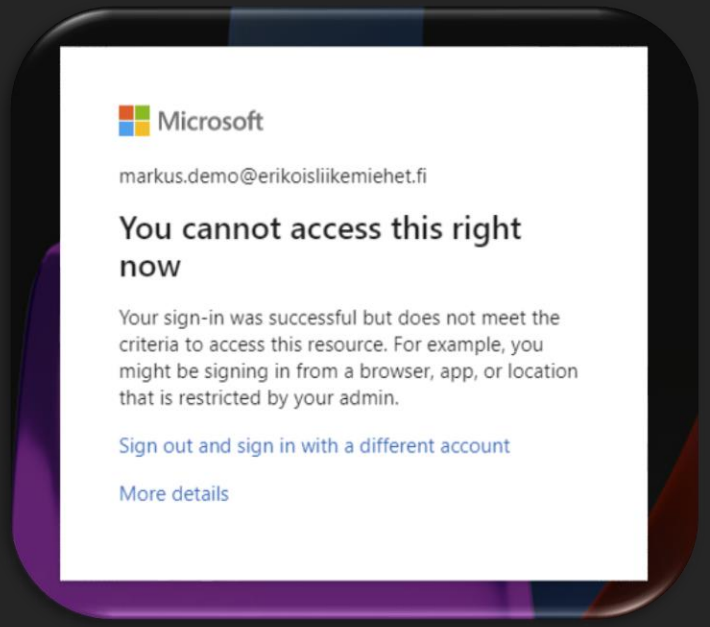
- Conditional access blocks sessions from unmanaged devices
- Secure, but not as productive
- No support for BYOD or Zero Trust scenarios



Modern application publishing

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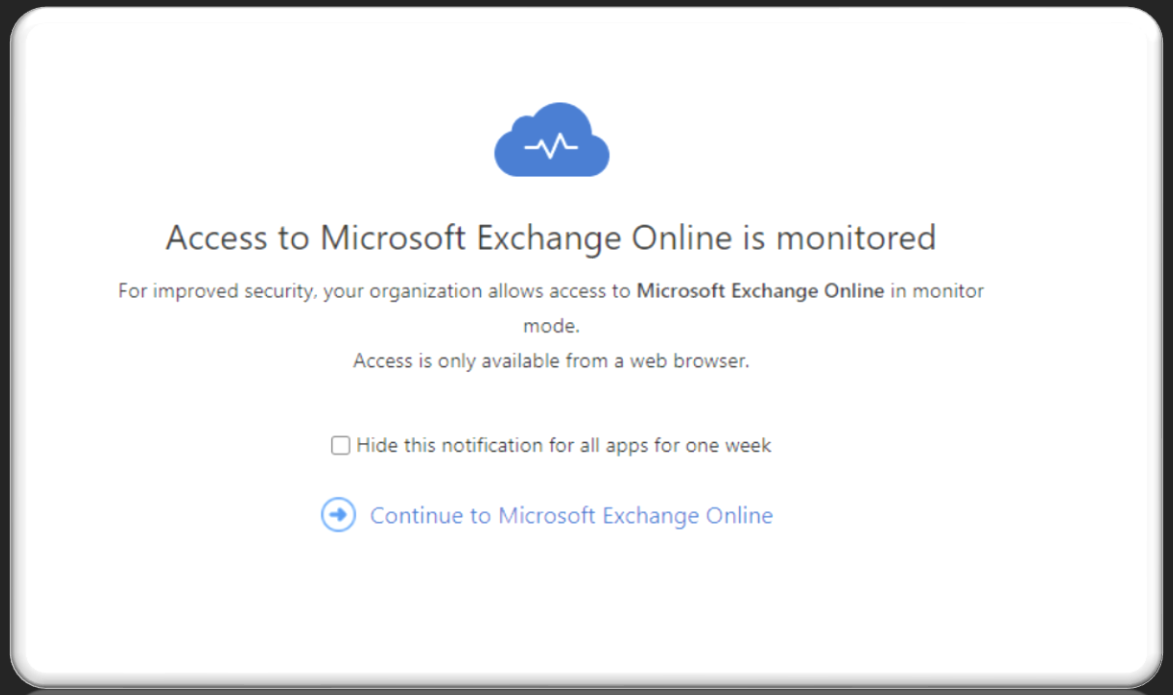
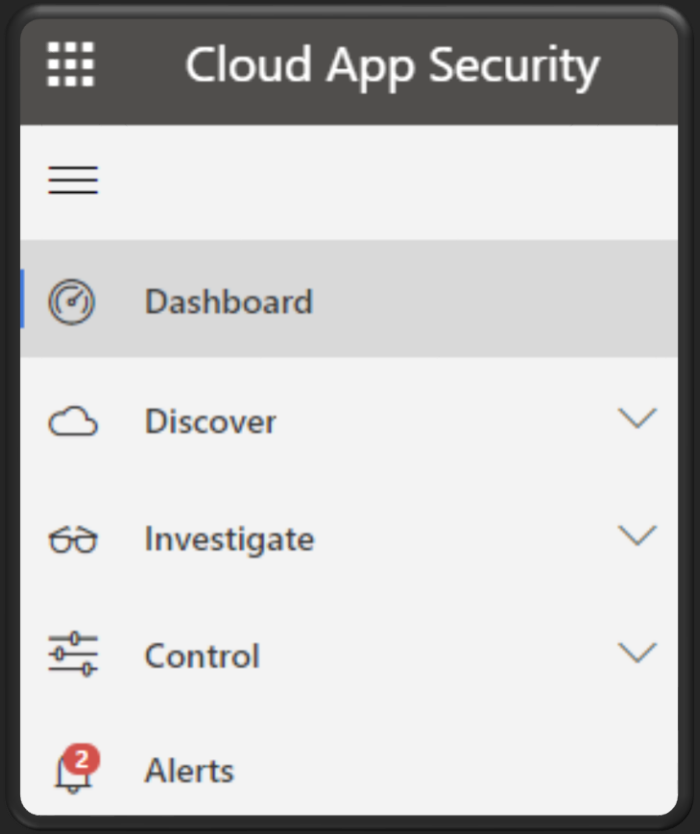
- Enable productive and secure access for cloud applications
- Monitor and control sessions on unmanaged devices
- Reduce data leakage risk with download encryption or download block



Cloud App Security



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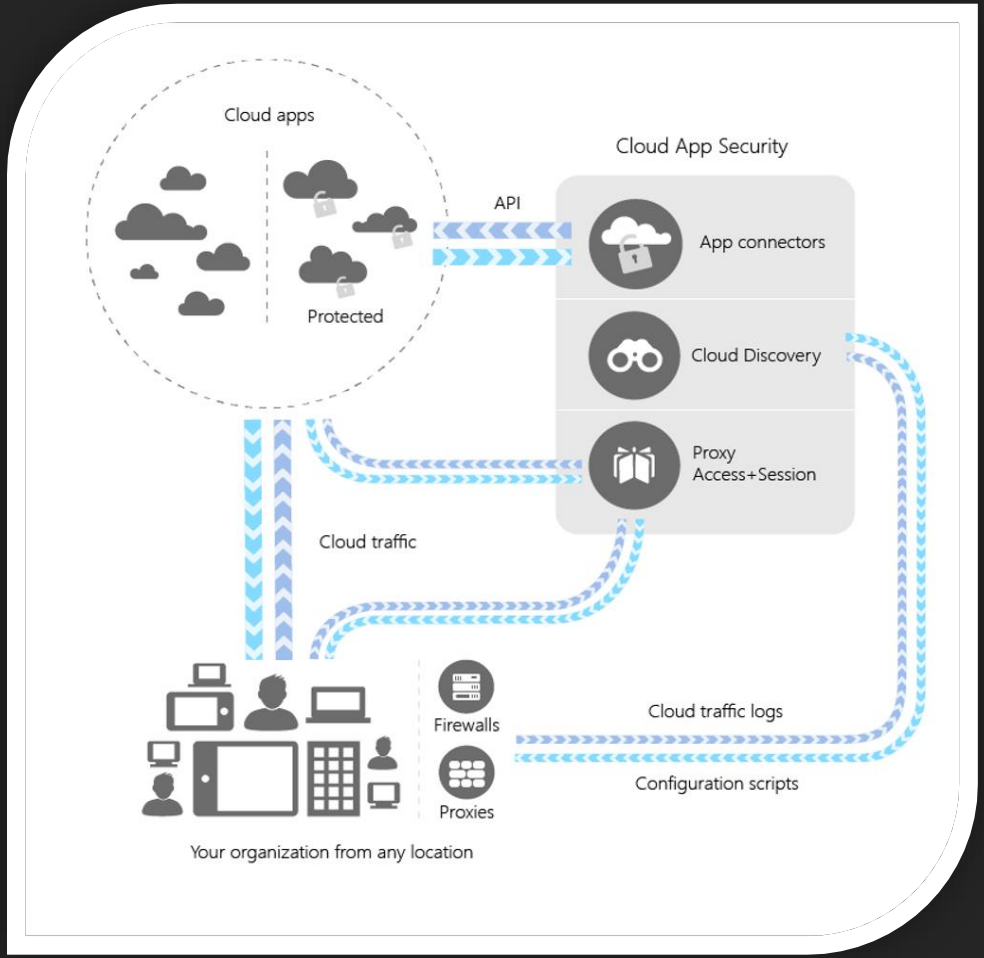
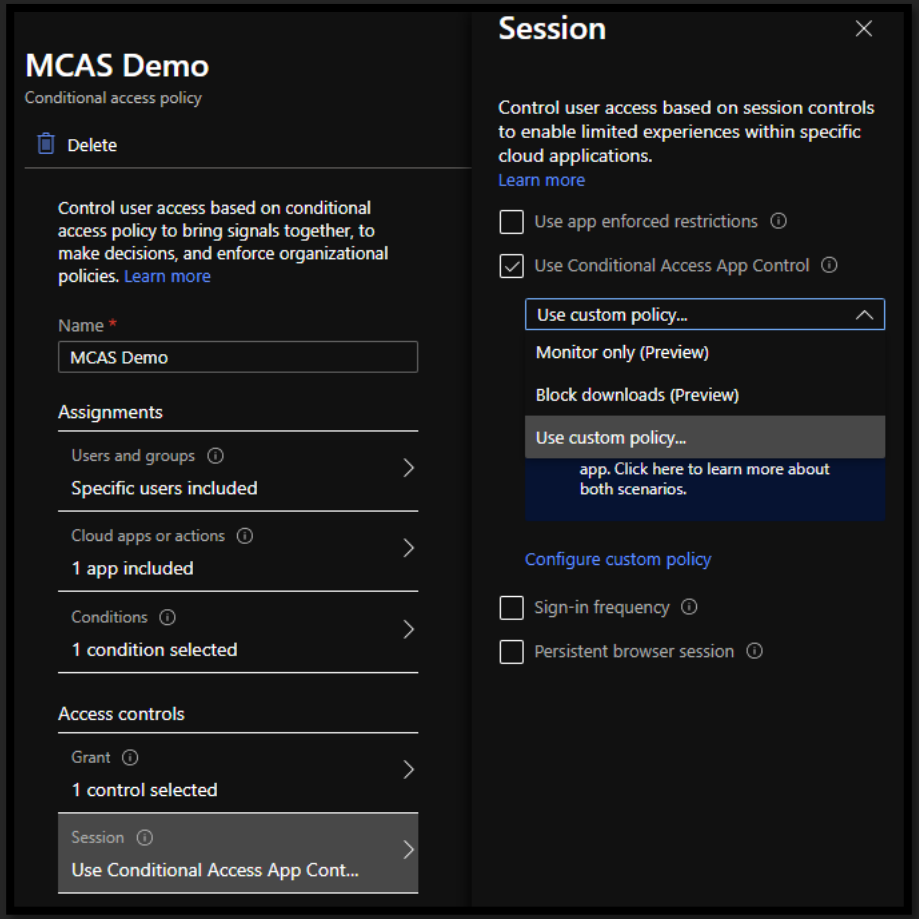
What is Cloud App Security

- Cloud Access Security Broker (CASB)
- Can be integrated with several identity providers
- Centralizes user activity for UEBA and threat protection



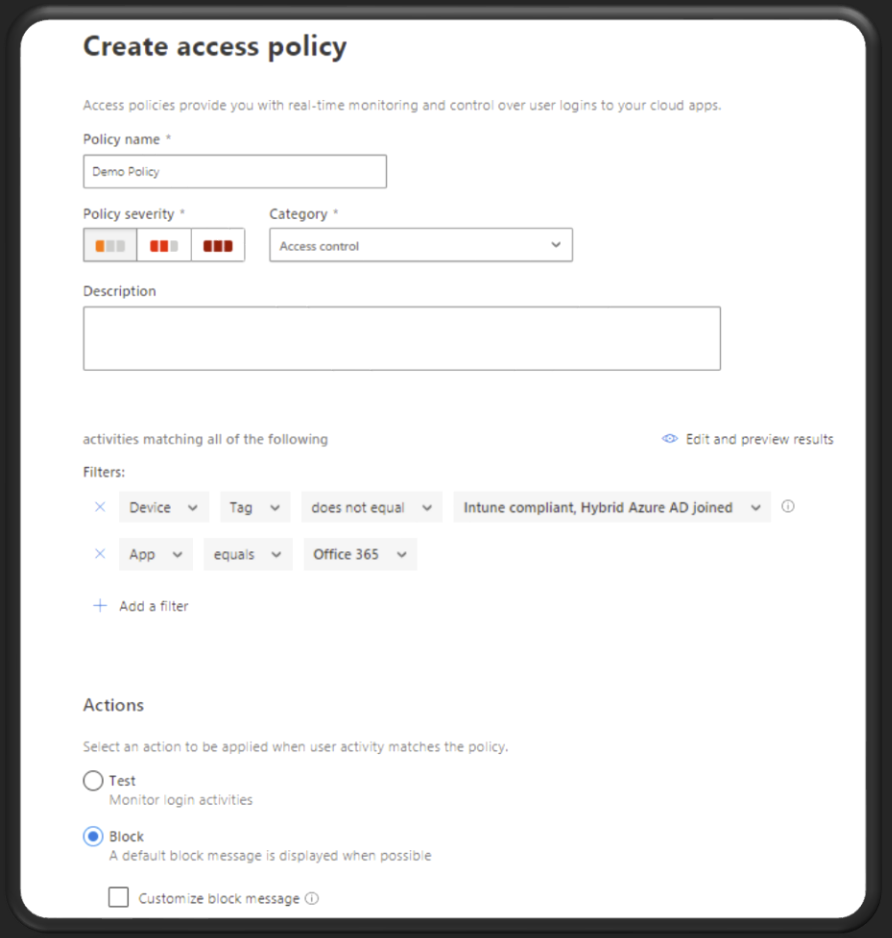
Access control redirection to Cloud App Security



- Use conditional access to forward control to Cloud App Security
- Custom policy for more detailed control
- Session control available also built in in Exchange Online and SharePoint Online

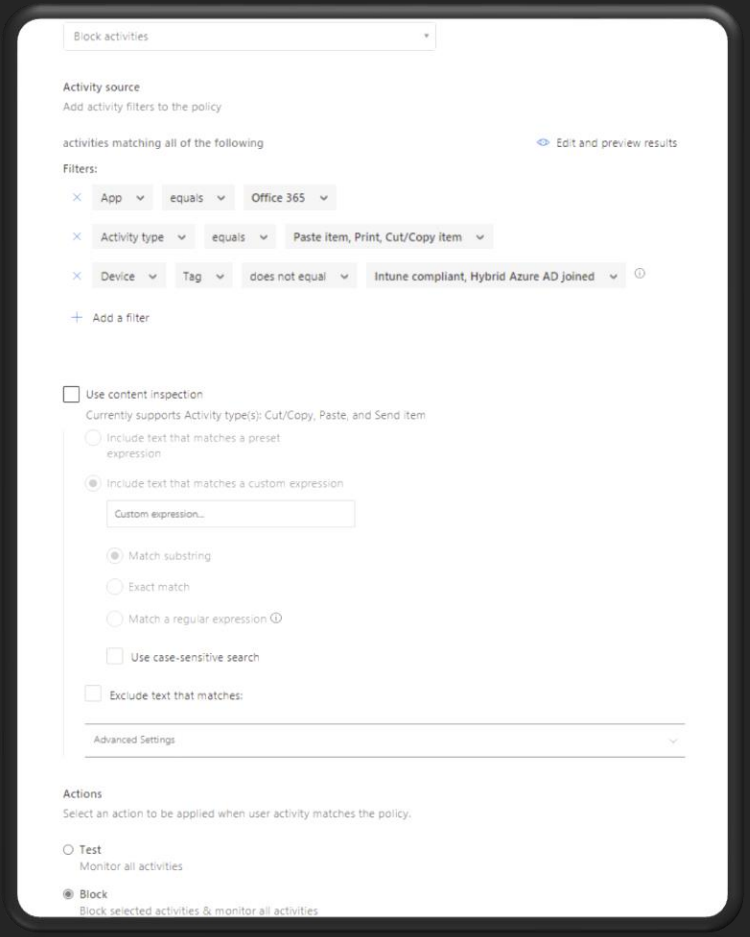
What is access control

- Is the device or user allowed to use application or not
- Custom policies allow to choose several conditions for access policy
- Supports browser and native applications

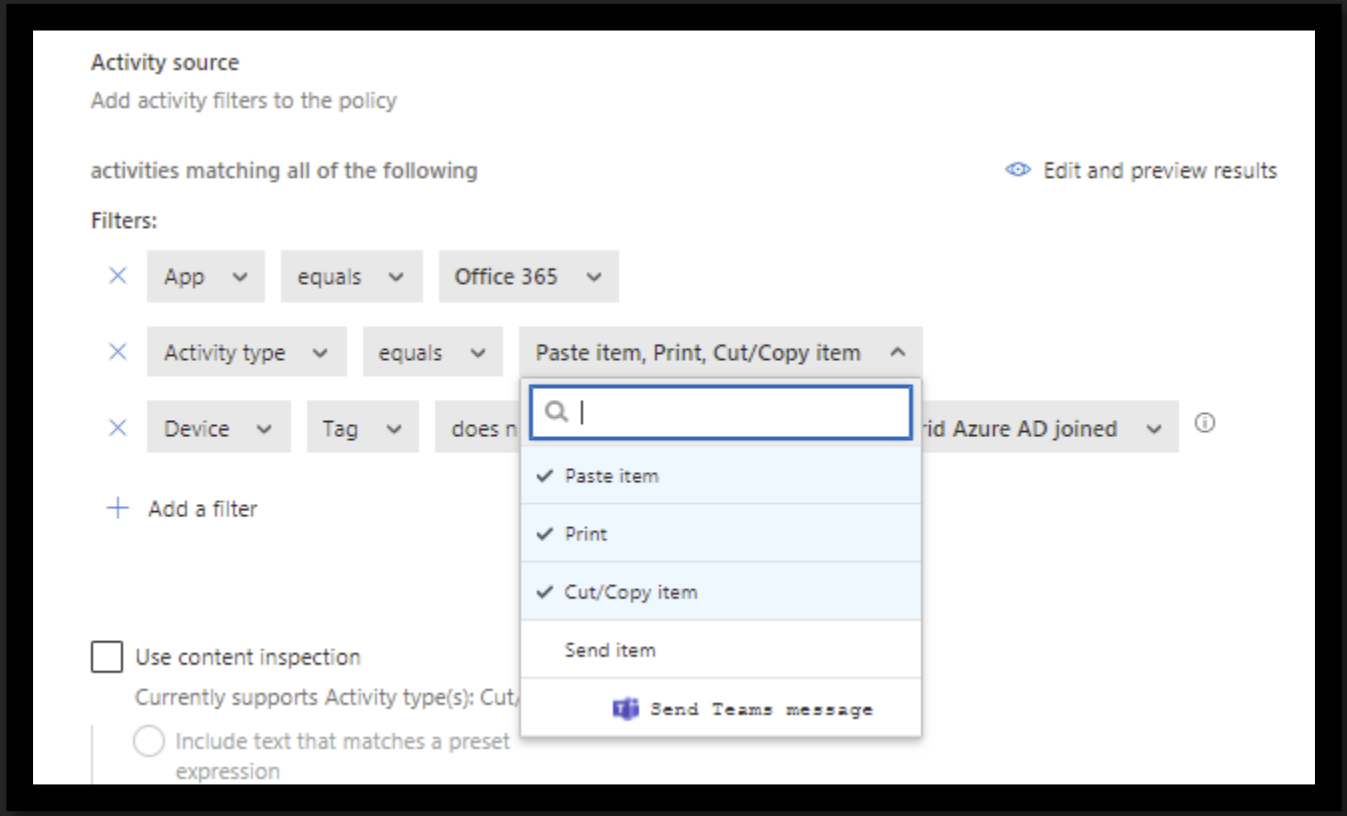


What is session control

- Controls in-session actions
- Block actions to reduce data leakage risk
- Supports **only** browser sessions



Actions in session control



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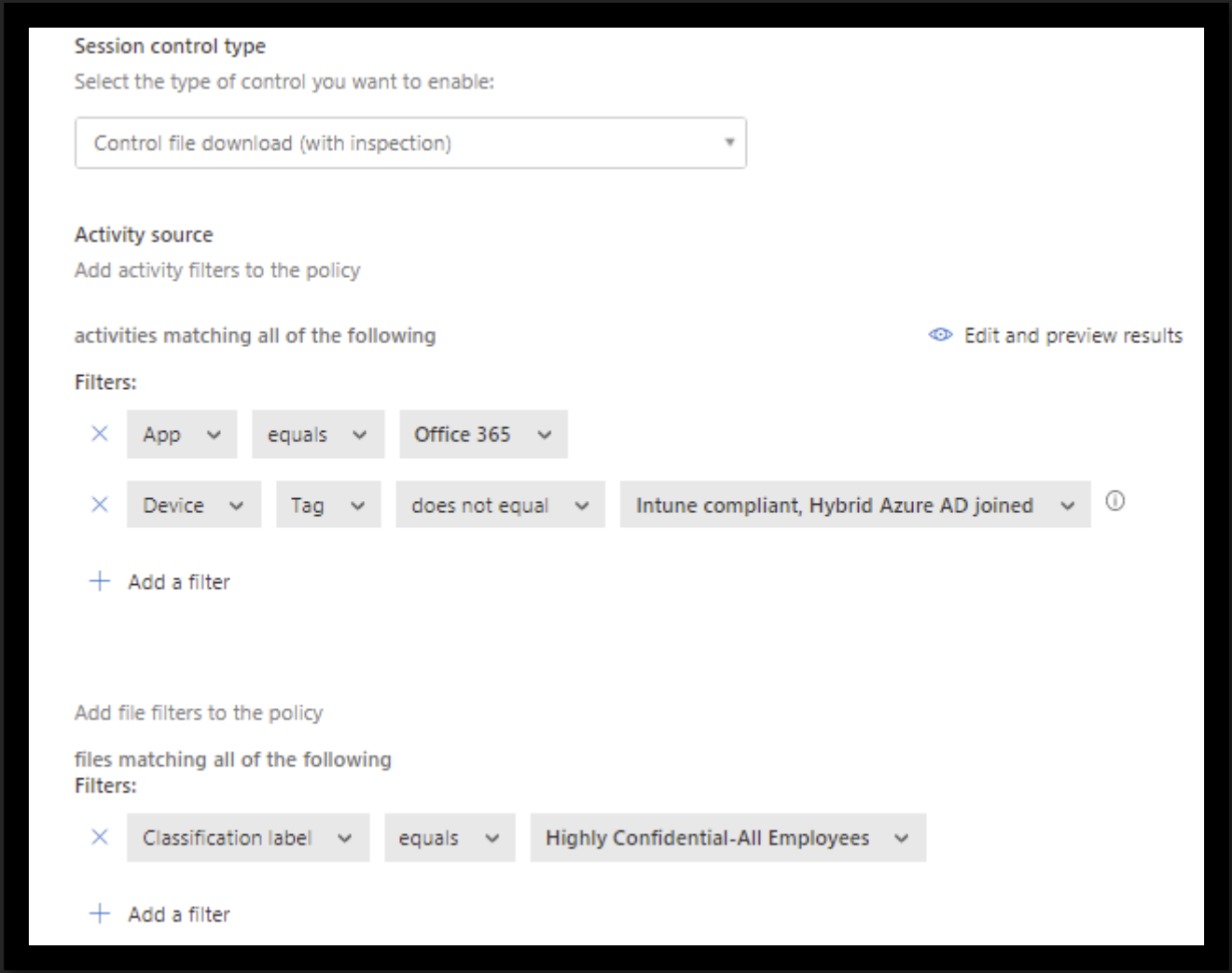

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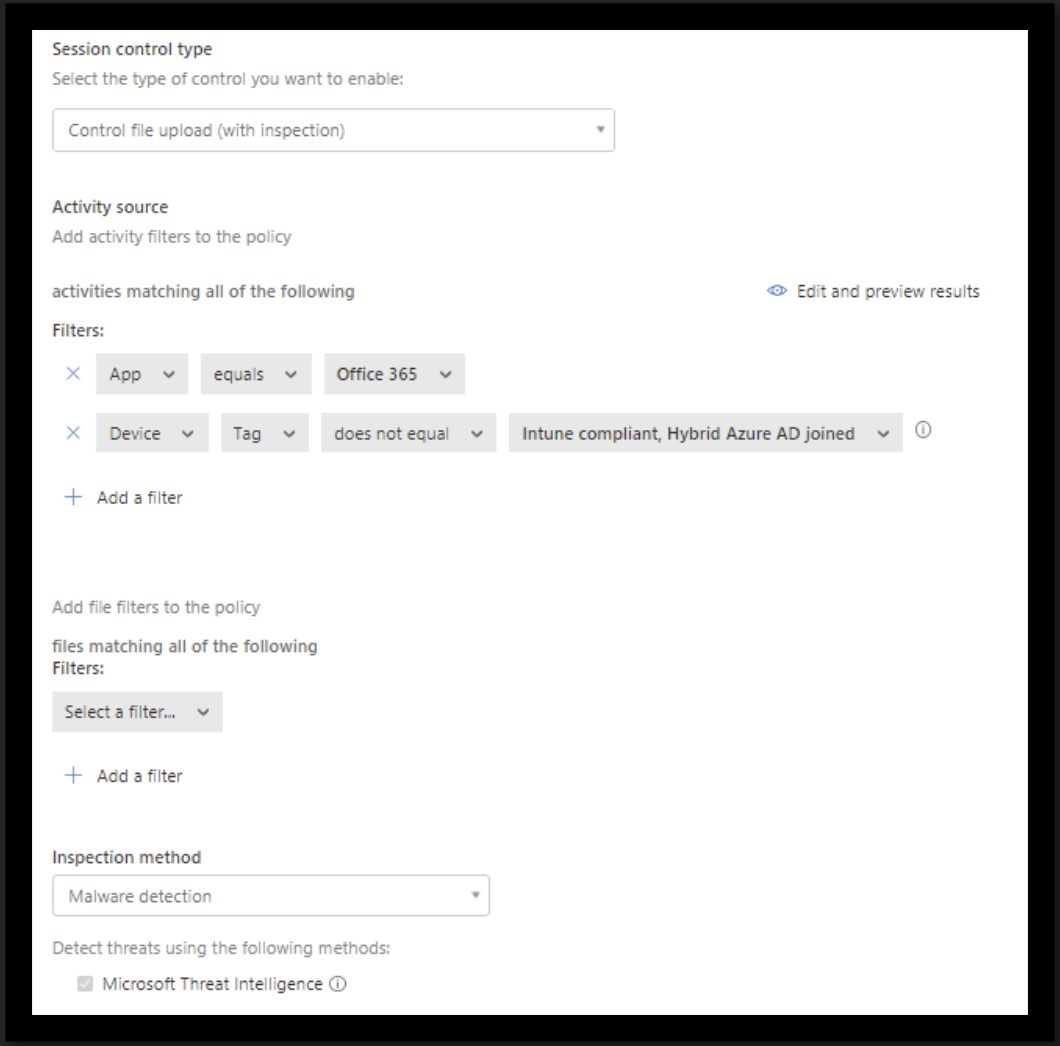
Actions in session control



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DEMO - Access Control and Session Control

Recognizing device in Cloud App Security

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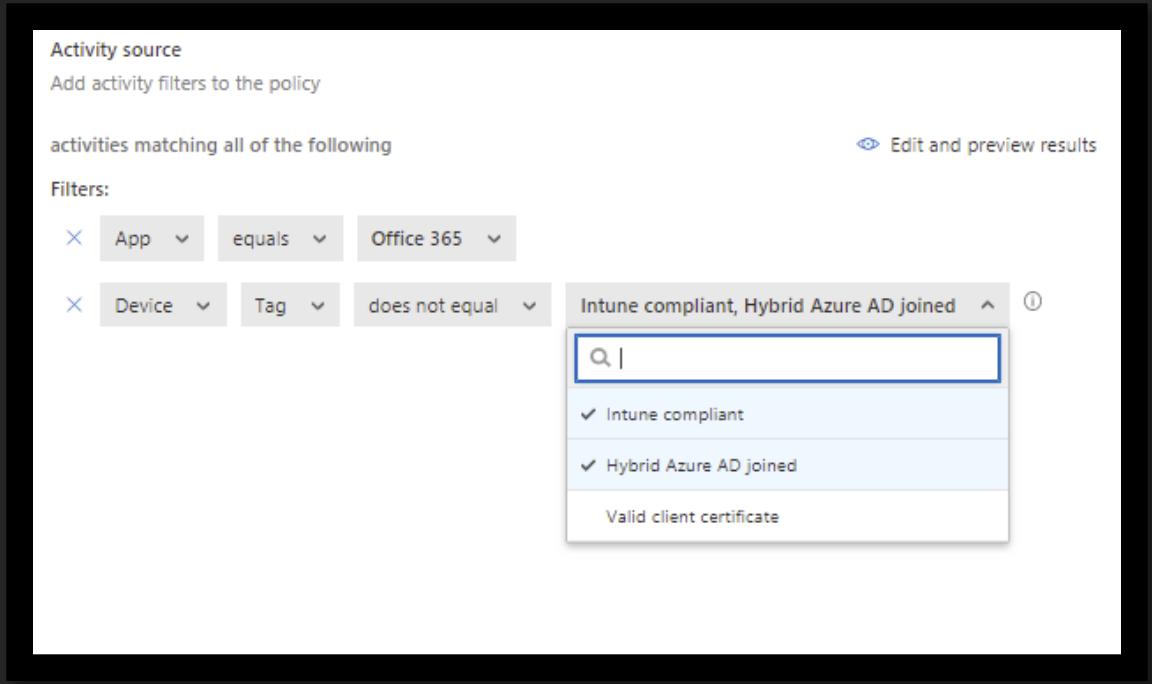
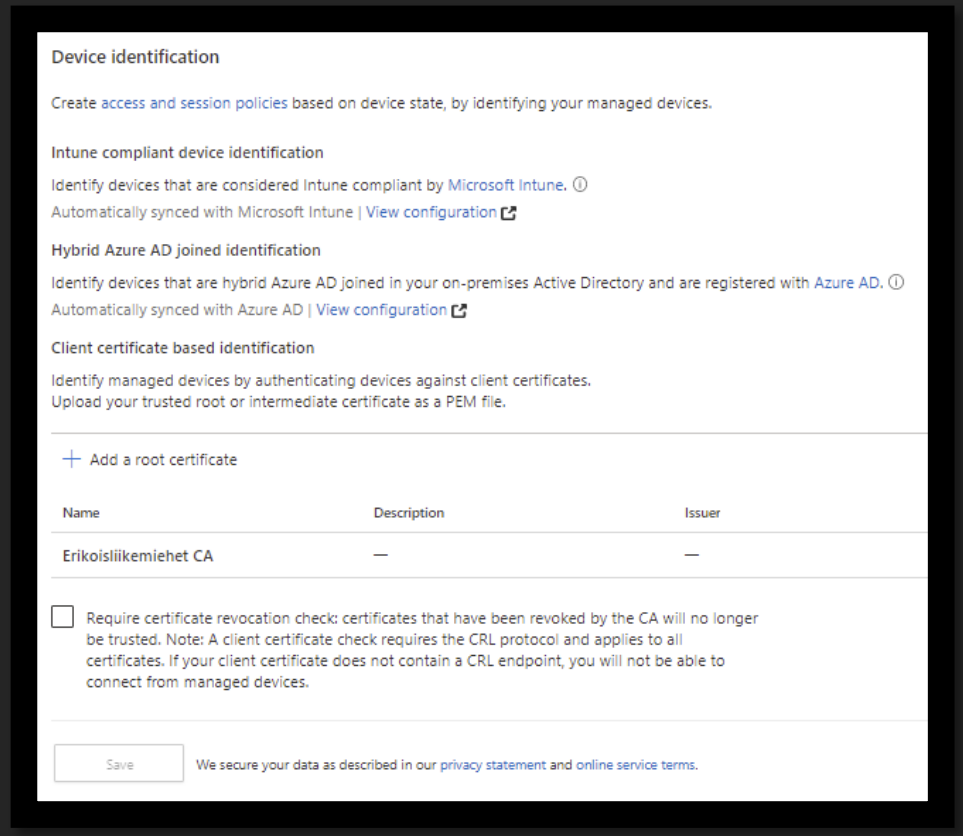
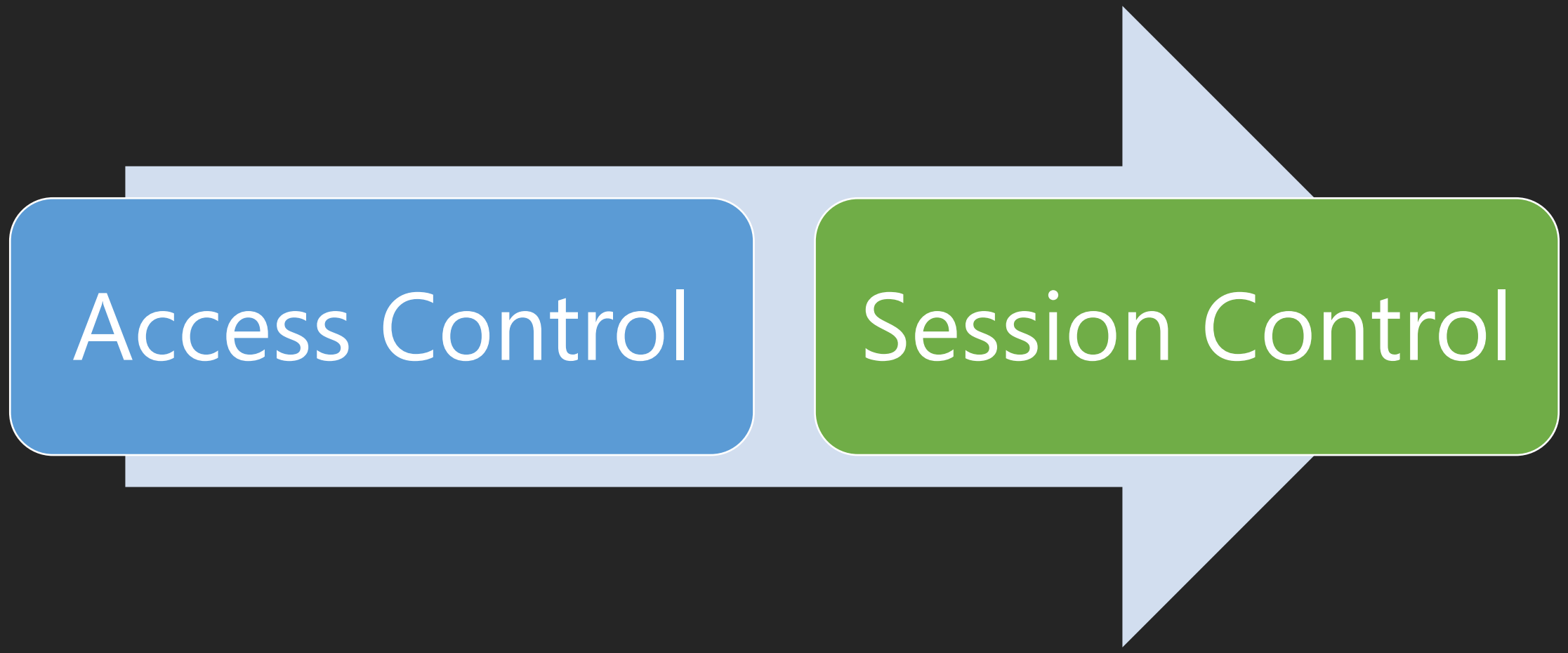


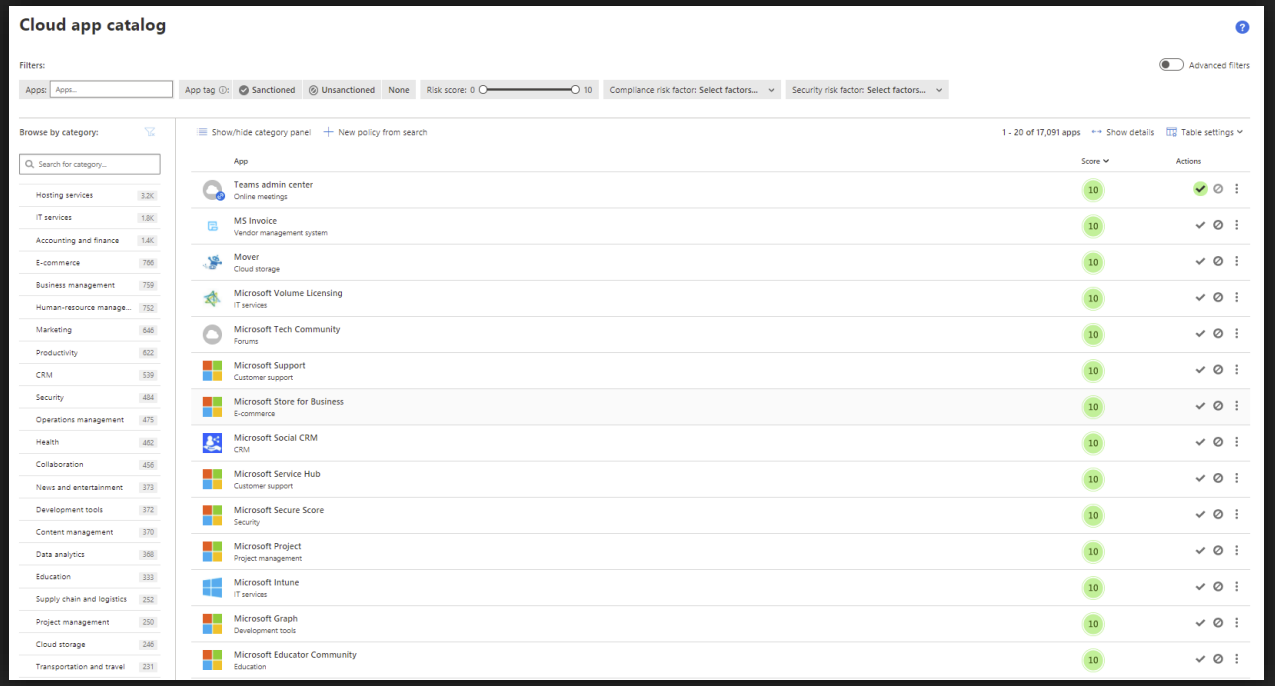


Using access and session control together



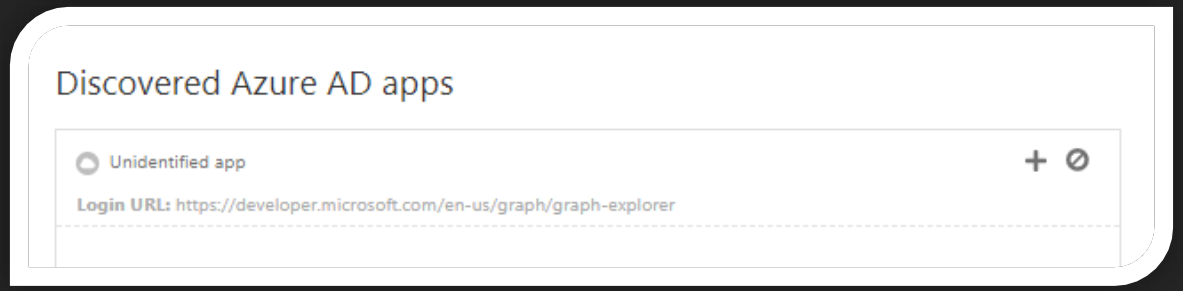
Application managing in Cloud App Security

- Featured apps (currently 17 091 apps)
- Any other app
- If Azure AD used as IdP
  - SAML 2.0
  - OpenID Connect
- If another IdP used
  - SAML 2.0 supported



Application onboarding

1. Log in to app using IdP Credentials that forwards the session control to Cloud App Security
2. Add application URL's if not already added
3. If you added some URL's, test the application
4. Turn on the Cloud App Security conditional access policy for the application
5. Deploy session policy



DEMO - Adding a featured application

DEMO - Adding an unlisted featured application

Where to start and how to implement it?

1. Forward applications to Cloud App Security and add session control support for all applications that you want
2. Make policy for small group and test, test and test
3. Bring more people for session control and at the end all internal users
4. Extend policies also to guest user accounts

What I should have done better 😉

- Test applications before onboarding to session control
- Monitor used applications and prepare before pilot
- Take enough large pilot group
- Do not use Cut, Copy and Paste actions in every app
- Inform your users

Same content available now at

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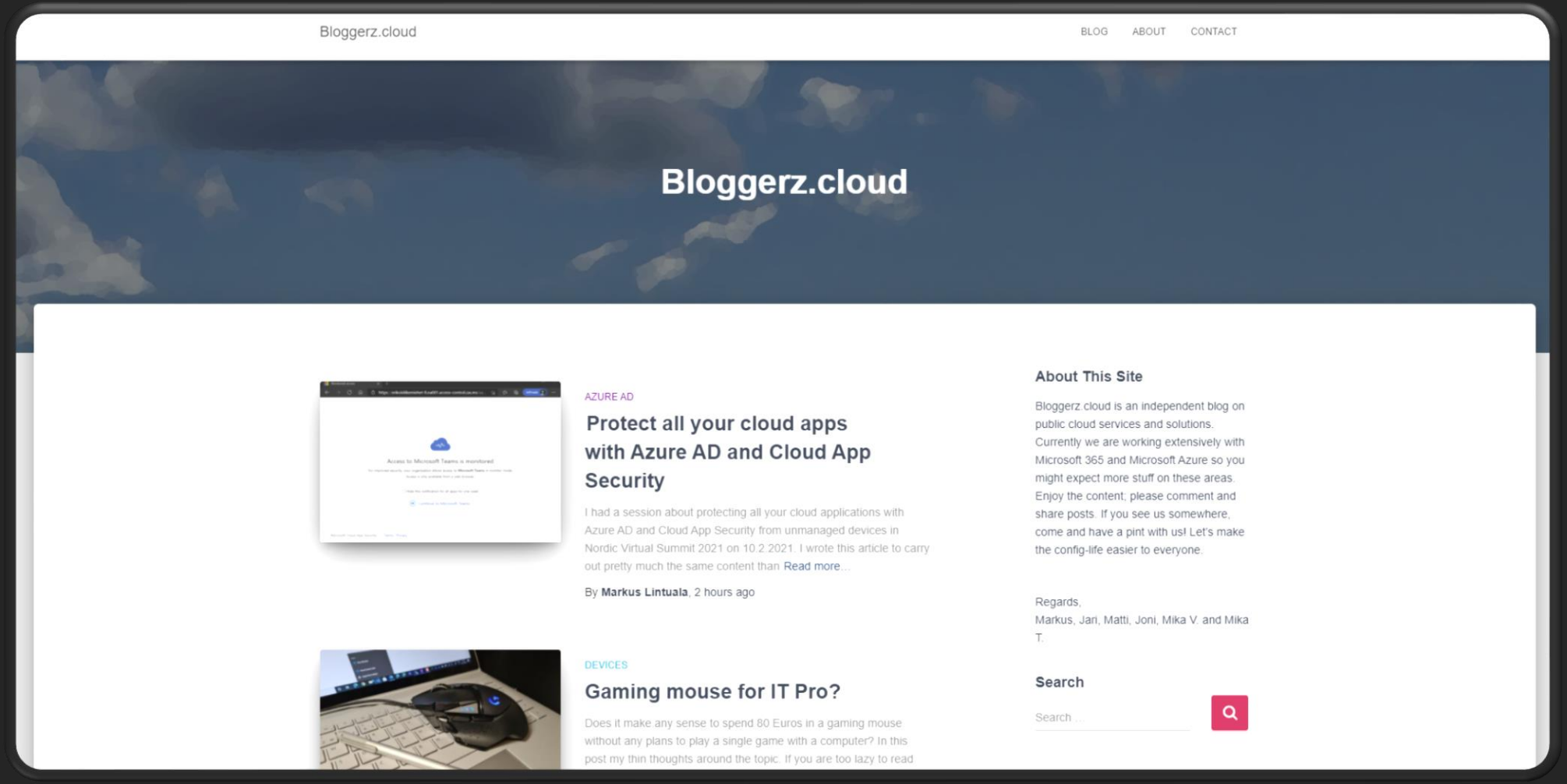
https://bloggerz.cloud/2021/02/10/protect-all-your-cloud-apps-with-azure-ad-and-cloud-app-security/



Thank you!

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