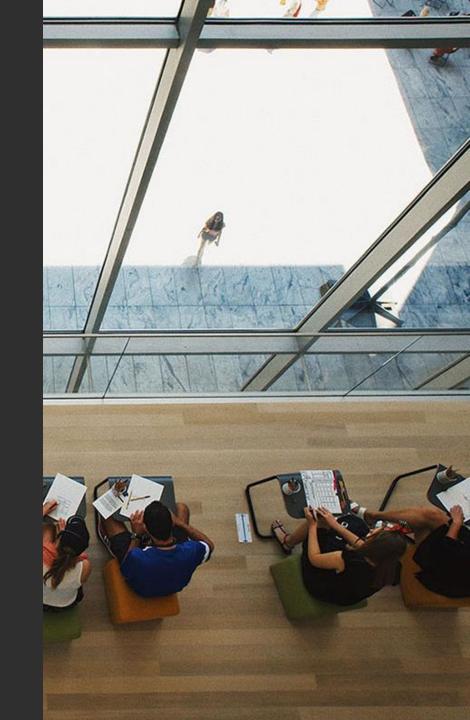
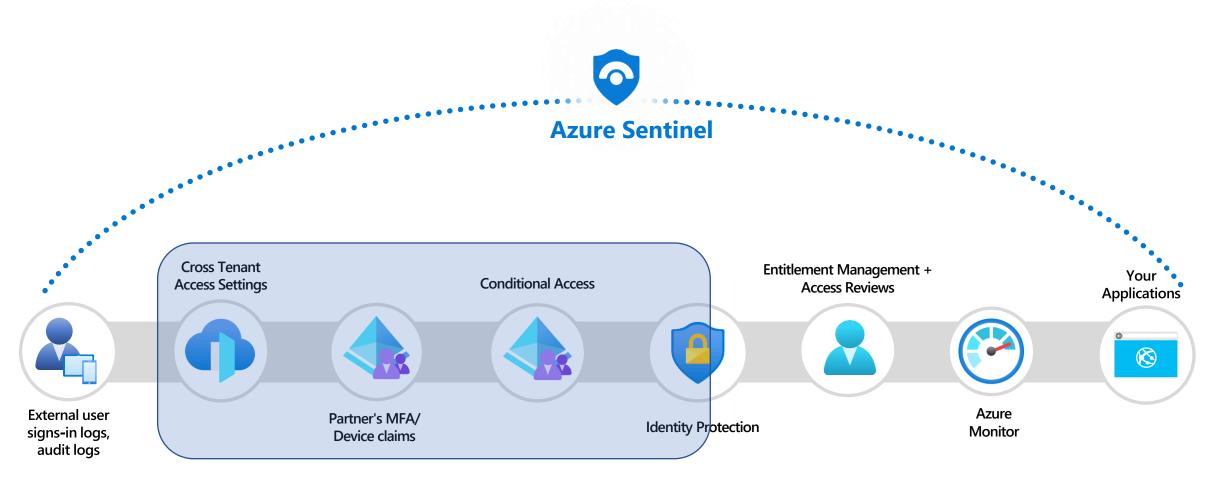
Optimizing external access controls for B2B collaboration

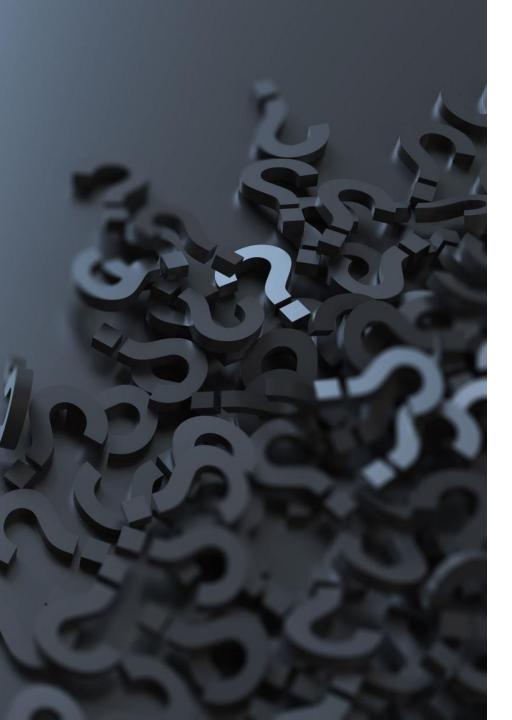
Claus Jespersen, Principal Security Consultant Security Service Line, EMEA



Collaborate with Zero Trust



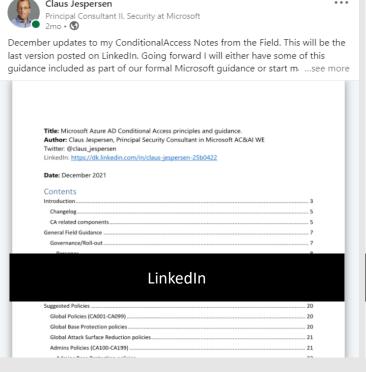
Focus for this session



Agenda

- Conditional Access Guidance update
- Conditional Access policy improvements for guest users
 - Base policy
 - Identity Protection
 - Data Protection
 - App Protection
 - Attack Surface Reduction
 - Compliance (no change)

Conditional Access for Zero Trust Guidance update



Conditional Access for Zero Trust

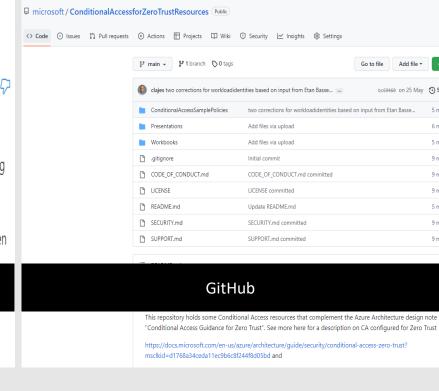
Article • 10/10/2022 • 2 minutes to read • 4 contributors

The articles in this section provide a design and framework for implementing Zero Trust principles by using Conditional Access to control access to cloud services. The guidance is based on years of experience with helping customers control access to their resources.

The framework presented here represents a structured approach that you can use to get a good balance between

Azure Architecture Center https://aka.ms/ca-zt

includes a breakdown of suggested personas and defines the Conditional Access policies for each persona.



Suggested Personas for Conditional Access



Internals



Guests



Externals



GuestAdmins



Admins



ServiceAccounts



Developers



WorkloadIdentities

CA Number Persona Guests Policy Type	Арр	Platform	Grant	Description
--------------------------------------	-----	----------	-------	-------------

Policy Type	Description
Base Protection	The base protection is the base line grant controls that the users must meet. Example - Require MFA
Identity Protection	 CA policies that relate to identity. Examples Block legacy authentication Require extra MFA for high sign-in risk Session policy with Sign-in frequency
Data Protection	Indicates delta policies that protect data as an extra layer. Examples - CA session policy with App Enforced Restrictions - CA session policy with App Access App Control (MDCA/MCAS)
App Protection	Protection related to a given app. Example - Office 365
Attack Surface Reduction	This type of policy is to mitigate against various attacks. Example - Block unknown platform
Compliance	A compliance policy. Example - TOU: "Terms Of Use"

Persona Guests

Policy Type

App

Platform

Grant

Description

 \vee

Conditional Access policy

0 controls selected

Guest Persona Limitation

- "All or nothing"

ded	Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies. Learn more				
Nai	me *				
E	xample: 'Device compliance app policy'				
Ass	signments				
Use	ers or workload identities (i)				
S	pecific users included				
8	"Select users and groups" must be configured				
Clo	ud apps or actions (i)				
	o cloud apps, actions, or authentication ontexts selected				
Coi	nditions ①				
0	conditions selected				
Aco	cess controls				
	ant ①				
Gra					

Control access based on who the policy will apply to, such as users and groups, workload identities, directory roles, or external guests. Learn more

What does this policy apply to?

Users and groups

Include Exclude

- None
- All users
- Select users and groups
 - Guest or external users ①
- Directory roles ①
- Users and groups

Persona Guests

Policy Type

App

Platform

Grant

Description

Improvement

Assigning
Conditional
Access policies
to external user
types (preview)

Home > Contoso | Security > Security | Conditional Access > Conditional Access | Policies > New Conditional Access policy What does this policy apply to? Name * Users and groups \vee Example: 'Device compliance app policy' Include Exclude Assignments Specify external Azure AD organizations (preview) None Users or workload identities (i) () All All users Specific users included Select Select users and groups Select users and groups" must be configured Guest or external users (i) Select Cloud apps or actions (i) 0 selected No cloud apps, actions, or authentication B2B collaboration guest users (preview) contexts selected B2B collaboration member users (preview) Conditions (i) B2B direct connect users (preview) 0 conditions selected Local guest users (preview) Access controls Service provider users (preview) Grant (i) Other external users (preview)

Base Protection Policy Limitations



MFA is the only viable grant control for guest users



Multiple MFA prompts



Authentication method can't be enforced



Limited support for blocking access to all apps but Office 365



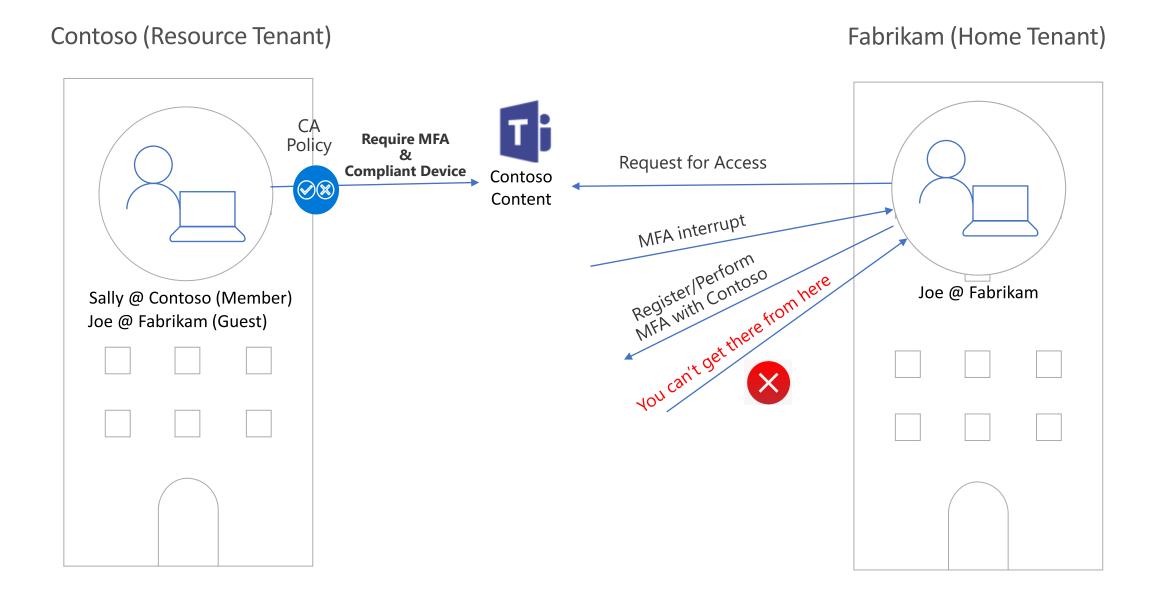
Limited support for excluding apps from base policy that are not targetable by CA

Everyone Else Business Partners, MSPs, CSS Organization (MTO) **Home Tenant**

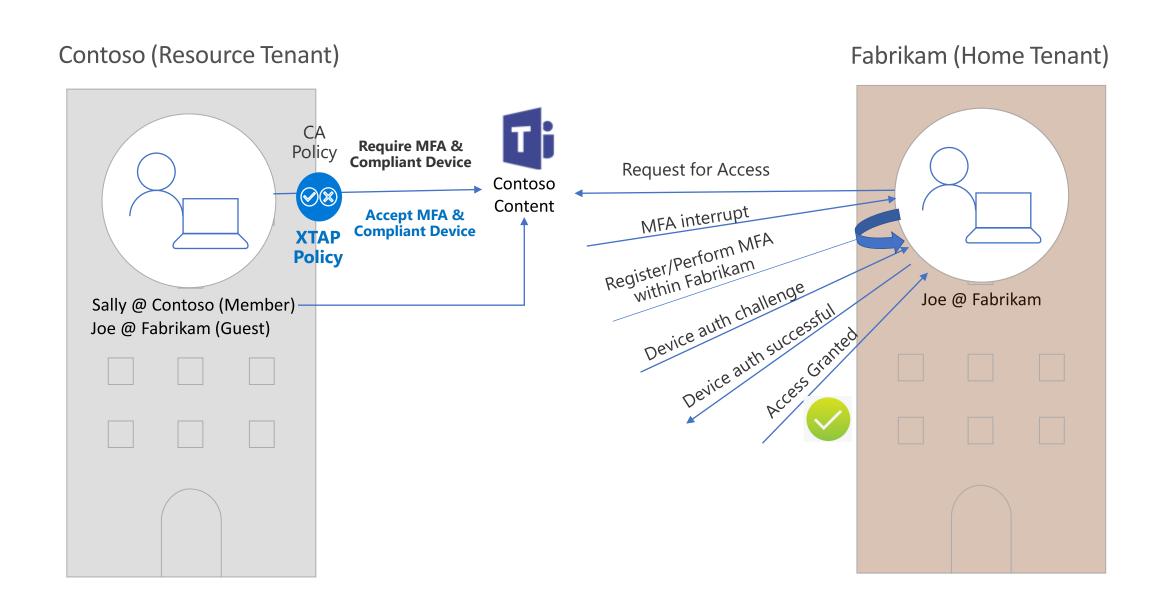
Multi Tenant Orgs/XTAP

- Inbound coarse grained access controls
- Outbound coarse grained access controls
- Next version of tenant restrictions

Inbound access w/o Cross Tenant Access setting



Inbound access w/ Cross Tenant Access setting



Base Protection Improvements

Home > External Identities | Cross-tenant access settings >

Inbound access settings - Default settings

B2B collaboration B2B direct connect Trust settings

Configure whether your Conditional Access policies will accept claims from other

You'll first need to configure Conditional Access for guest users on all cloud apps

Learn more ☑

Trust multifactor authentication from Azure AD tenants

Trust compliant devices

Trust hybrid Azure AD joined devices

lew aut	thentication strength)
Configure	Review	
Name *		
Name your	authentication strength	
The authentica	tion strength name cannot be empty	
Description		
Add a descr	iption for your authentication strength	
Search	authentication combinations	
~	Phishing-resistant multifactor authentication (3)	
	Windows Hello For Business	
	FIDO2 Security Key	
	Advanced options	
	Certificate Based Authentication (Multi-Factor)	
~	Passwordless multifactor authentication (1)	
	Microsoft Authenticator (Phone Sign-in)	
~	Multifactor authentication (13)	
	Temporary Access Pass (One-time use)	
	Temporary Access Pass (Multi-use)	
	Password + Microsoft Authenticator (Push Notification)	
	Password + Software OATH token	
	Password + Hardware OATH token	

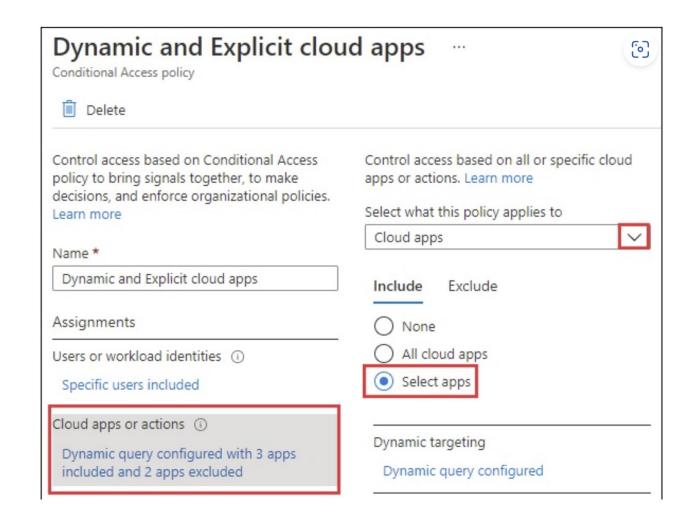
Authentication Strengths for Guests

Authentication method	Home tenant	Resource tenant
SMS as second factor		
Voice call		
Microsoft Authenticator push notification		
Microsoft Authenticator phone sign-in		(Now supports multiple accounts)
OATH software token		
OATH hardware token		
FIDO2 security key		
Windows Hello for Business		
X509 Certificates		
Temporary Access Pass (TAP)		☑ ?? (verify)

Security Attributes for CA

Attribute based Cloud App Targeting Filter for applications

- Step 1 Define Attribute
- Step 2 Assign Attribute
- Step 3 Configure CA to exclude apps with given security attribute



Base Protection Policy updates

Persona **CA Number Platform** App **Policy Type** Grant **Description** Guests **Policy Type** Description **Base Protection** The base protection is the base line grant controls that the users must meet. You can now use a mix of these grant controls per guest type and/or per tenant Require MFA Require MFA and/or known/compliant device from home tenant (requires XTAP) (When using inbound XTAP policies, suggest assigning to all apps to avoid issues) Require different authentication strengths (and auth method policy per groups of users) Use Conditional Access Application filters based on security attributes assigned to apps Use MDCA, if you want to block access to all apps but Office 365 with MFA registration

Identity Protection Policies - Limitations



Current guidance only addresses sign-in risk (as opposed to user and/or device risk)



MFA methods can't be enforced for guests (tenant wide MFA settings)



Fresh MFA for risky sign-ins may not be enforced



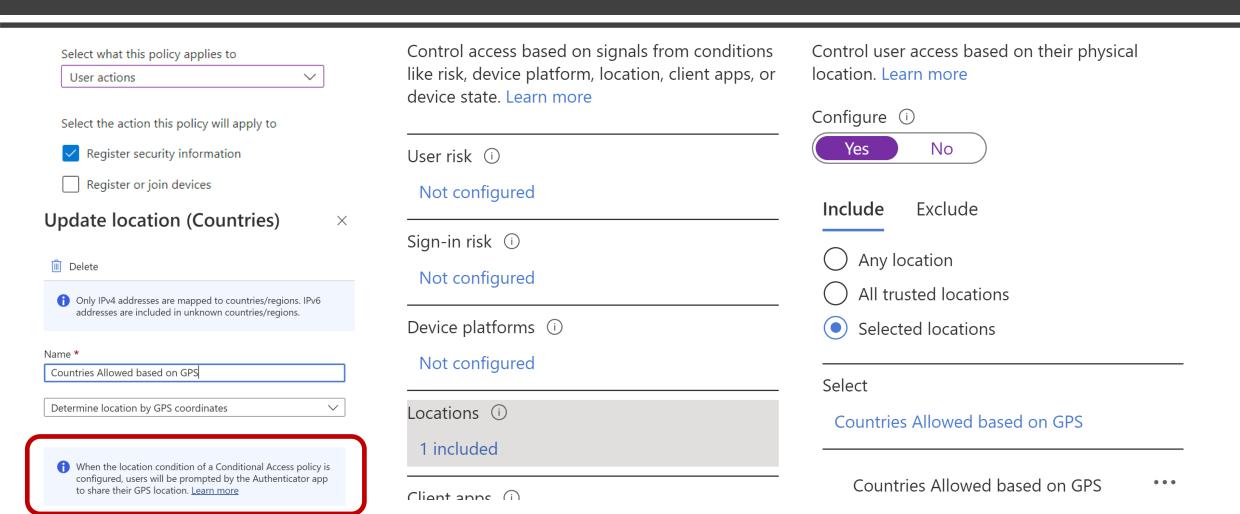
MFA can be performed from Jailbroken devices



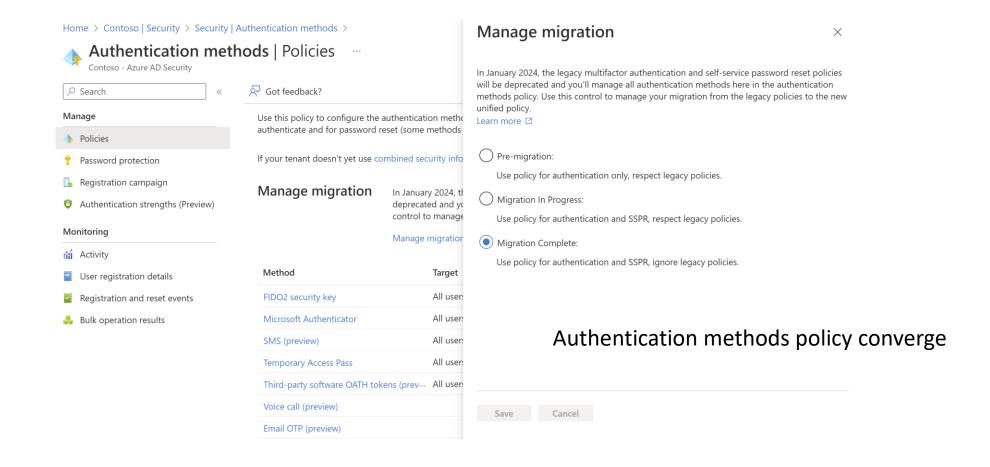
CA risk policies for guests may be intrusive for guests not knowing about risks in own tenant due to lack of AADP2 license

Identity Protection Policy Improvements

MFA registration using GPS as named location



Identity Protection Policy Improvements MFA/SSPR (combined registration methods) now through authentication policies



Identity Protection Policy updates

Persona **CA Number Platform** App Description **Policy Type** Grant Guests **Policy Type Description Identity Protection** CA delta policies that relate to identity. Block legacy authentication Enforce sign-in frequency Require fresh MFA for user and/or sign-in risk (requires sign-in frequency policy) Require authentication strengths for user or sign-in risk (like password-less phone sign-in) MFA registration can enforce GPS through authenticator app, check for jail-broken device

Data Protection Policy Limitations



No (easy) granular data protection policies for apps not targetable in CA



Read-only guest access to resources only supported by EXO, SPO and Teams (without using MDCA)



Lack of native CA support for sensitivity types and labels for guest access

Data Protection Policy updates

Persona **CA Number Platform Policy Type** App Description Grant Guests **Policy Type Description Data Protection** Indicates delta policies that protect data as an extra layer. Examples CA session policy with App Enforced Restrictions (as before) CA session policy with App Control (MDCA/MCAS) (as before) Look for new feature "MAM policies for Edge" with relevant CA controls announced at Ignite 2022

App Protection Policy Limitations

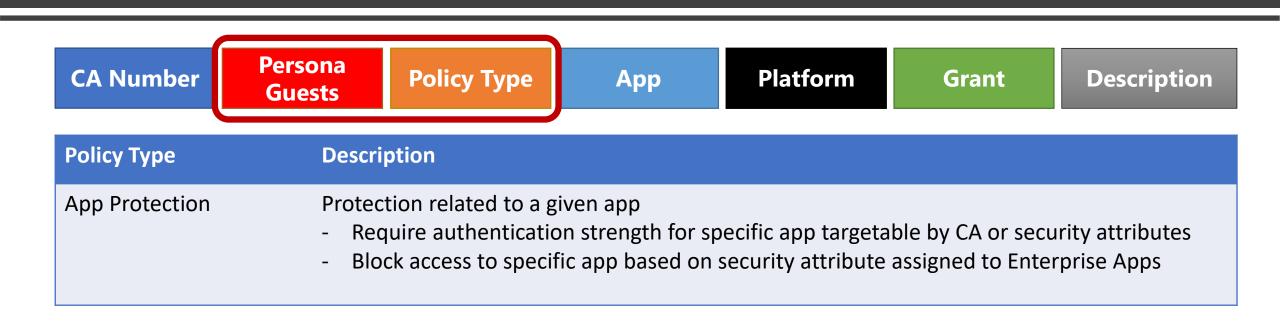


Limited support targeting access to specific app(s) (if not targetable by CA policy)



Authentication method can't be enforced for specific app

App Protection Policy updates



Attack Surface Reduction Policy Limitations



Blocking non-supported platforms may unintentionally block guest users from various unmanaged clients

Attack Protection Policy updates

