Mastering Secure External Sharing in Microsoft 365:

A Comprehensive Guide for Structured and Unstructured Sharing

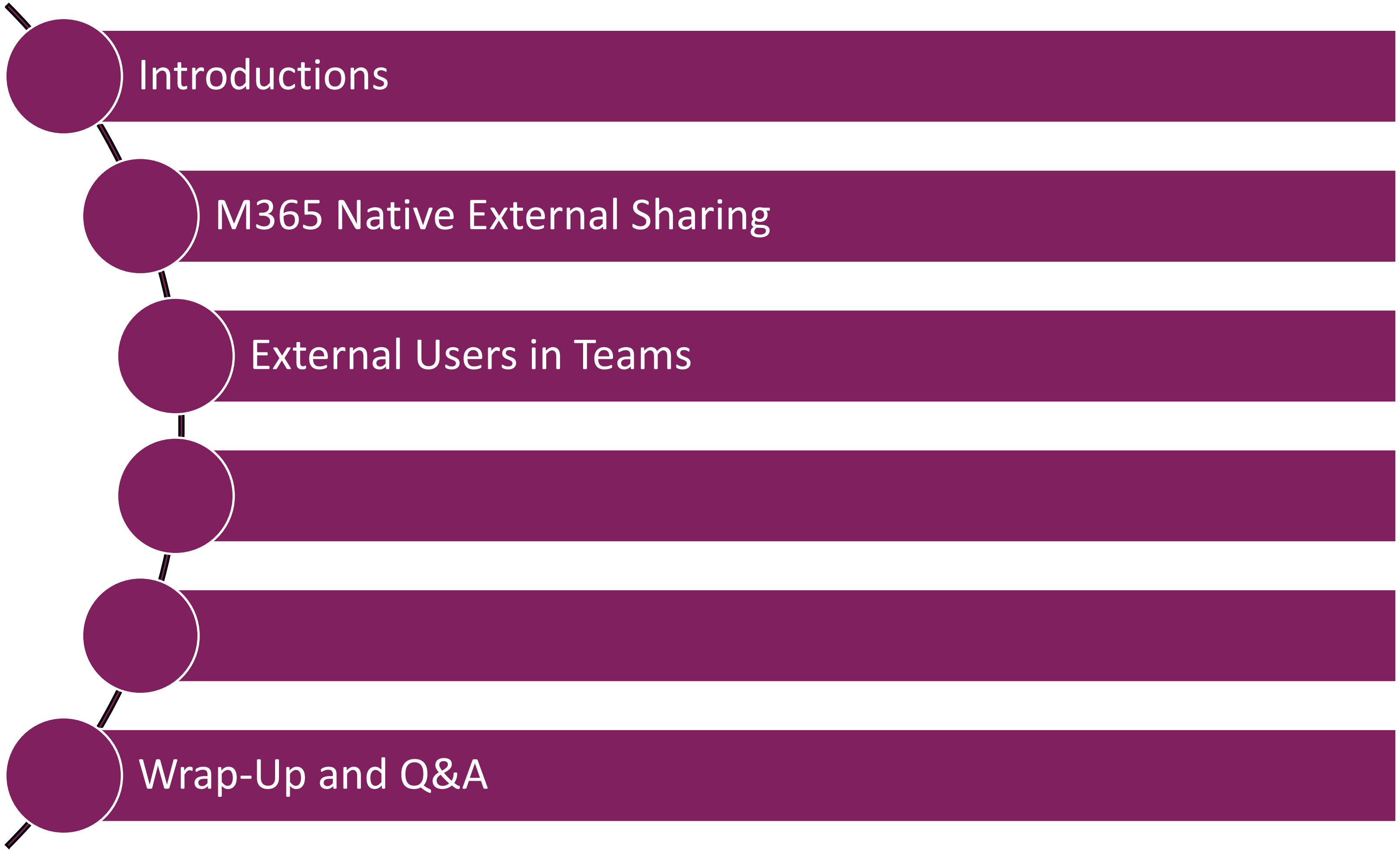
Saturday November 25th, 2023

collabdays

Peter Carson

- President, Extranet User Manager and Envision IT
- 13-time Office Apps and Services Microsoft MVP
- peter@envisionit.com
- blog.petercarson.ca
- www.extranetusermanager.com
- President, Toronto SharePoint User Group

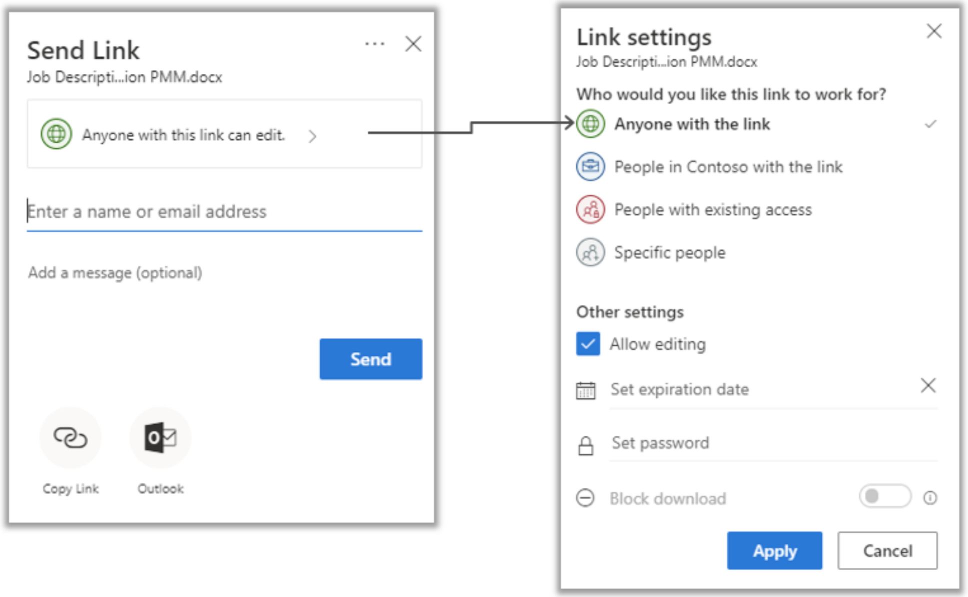
Agenda



- Introductions
- M365 Native External Sharing
- External Users in Teams
- Wrap-Up and Q&A

What is Unstructured Sharing in Microsoft365?

- External Sharing in Microsoft 365 strongly supports ad-hoc collaboration
- **Unstructured sharing involves s**haring documents with a few to a few dozen external people
- Secure Link sharing to sites, libraries, and documents



Send Link
Job Descripti...ion PMM.docx
Anyone with this link can edit.
Enter a name or email address
Add a message (optional)

Link settings
Job Descripti...ion PMM.docx
Who would you like this link to work for?
● Anyone with the link ✓
○ People in Contoso with the link
○ People with existing access
○ Specific people

Other settings
☑ Allow editing
Set expiration date
Set password
Block download

Microsoft 365 Native External Sharing

1. Who will you be sharing with? Is there a member database to interface with? → Any type of external user
2. Self-registration option or invitation only? Who approves new registrations? → Invitation only
3. How will your external users authenticate? → Microsoft 365 / Azure AD, Microsoft Account, One Time Passcode, Gmail, Facebook
4. What interactions are your external users going to have? → Any interactions
5. What applications will be accessible? → Microsoft 365 only

Managing External Sharing

Control WHO can share to external users

- Everyone
- Only specific people
- No one

Control WHICH external users can be shared with

- Anyone
- Only authenticated users
- Only authenticated users except specific domains
- Only authenticated users in specific domains
- No one

Control WHAT can be shared externally

- Anything
- Only specific sites
- Only files without sensitive content

Control HOW externally shareable links can be used

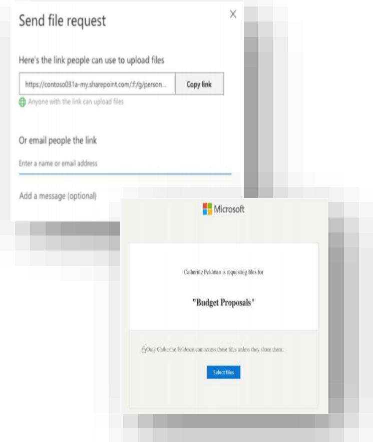
- Default
- Enabled, but not default
- Mandatory expiration date
- Block externally-shareable edit links
- Disabled

Microsoft 365 Tools for Unstructured Sharing

OneDrive for Business

Request Files with OneDrive for Business

- Ask colleagues and external users to upload files to a folder
- Uploaders can only see their own content



Send file request

Here's the link people can use to upload files

https://contoso031a-my.sharepoint.com/:f:/g/person...

Anyone with the link can upload files

Or email people the link

Enter a name or email address

Add a message (optional)

Microsoft

Catherine Feldman is requesting files for

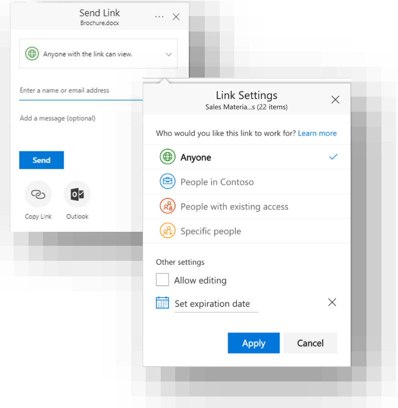
"Budget Proposals"

Only Catherine Feldman can access these files unless they share them.

SharePoint

Shareable Links in SharePoint Online

- Enable edit and/or read access to colleagues or external users
- Can modify granularity of access



Send Link

Brochure.docx

Anyone with the link can view.

Enter a name or email address

Add a message (optional)

Link Settings

Sales Materia...s (22 items)

Who would you like this link to work for? Learn more

- Anyone ✓
- People in Contoso
- People with existing access
- Specific people

Other settings

□ Allow editing

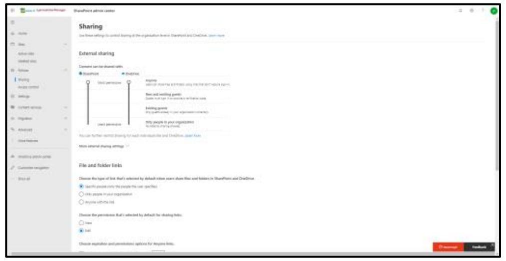
Set expiration date

Microsoft Teams

Teams Shared Channels

- Invite anyone allowed in the host organization's tenant, including external

Multiple Places to Configure External Sharing



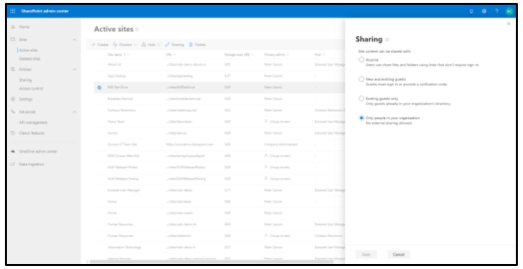
SharePoint admin center

Sharing

External sharing

File and folder links

SharePoint Admin

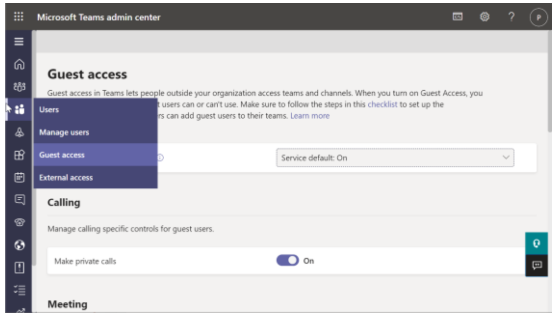


Active sites

Sharing

Site Collection Admin

PowerShell



Microsoft Teams admin center

Guest access

Guest access in Teams lets people outside your organization access teams and channels. When you turn on Guest Access, you … t users can or can't use. Make sure to follow the steps in this checklist to set up the … rs can add guest users to their teams. Learn more

Service default: On

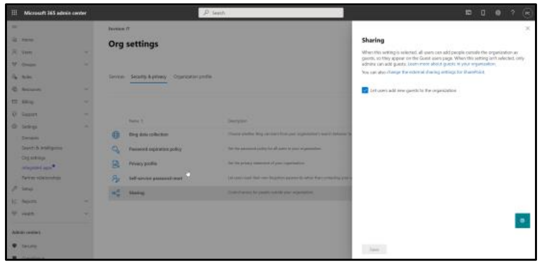
Calling

Manage calling specific controls for guest users.

Make private calls: On

Meeting

Teams Admin



Microsoft 365 admin center

Org settings

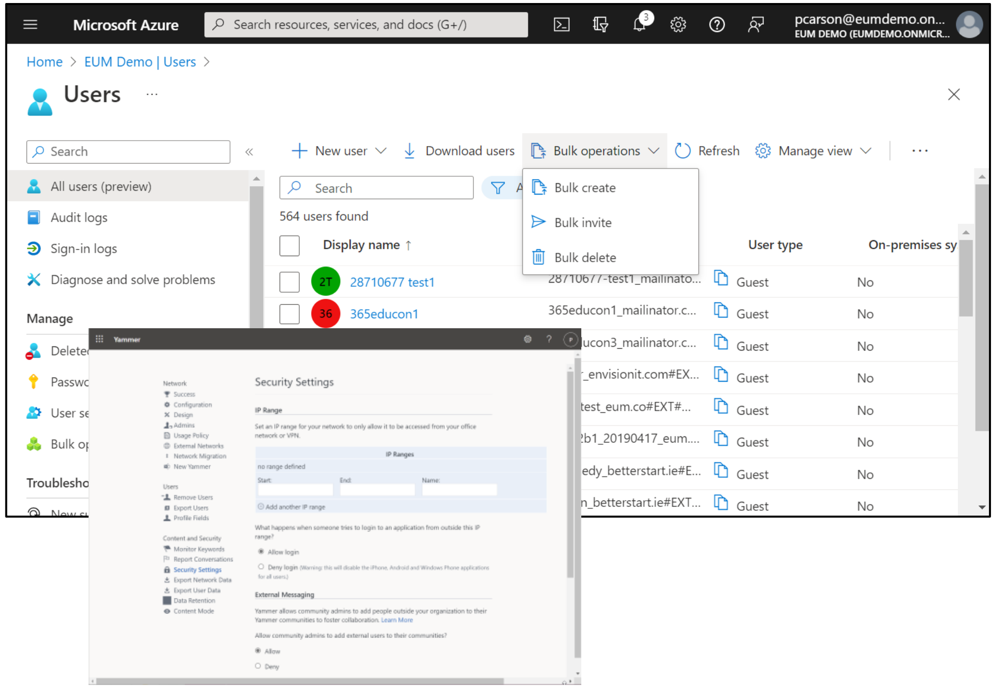
Sharing

Microsoft 365 Admin

Invite External Users into your Microsoft 365 with Azure AD/Entra

- Restricted to IT personnel with Azure privileges
- Highly manual: users invited one at a time, or bulk import
- User Guest Inviters have limited capabilities

- Azure AD B2B allows guests to login and access apps and resources in Microsoft 365
- Supported onboarding experiences:
  - Microsoft account via SSO
  - Non-Microsoft account via One-Time Passcode authentication
  - Social users via SSO (with federation)



564 users found

Display name ↑		User type	On-premises sy
2T 28710677 test1	28710677-test1_mailinato...	Guest	No
36 365educon1	365educon1_mailinator.c...	Guest	No
	ucon3_mailinator.c...	Guest	No
	_envisionit.com#EX...	Guest	No
	test_eum.co#EXT#...	Guest	No
	2b1_20190417_eum....	Guest	No
	edy_betterstart.ie#E...	Guest	No
	n_betterstart.ie#EXT...	Guest	No

Security Settings

IP Range

Set an IP range for your network to only allow it to be accessed from your office network or VPN.

IP Ranges		
no range defined		
Start:	End:	Name:

Add another IP range

What happens when someone tries to login to an application from outside this IP range?

● Allow login

○ Deny login (Warning: this will disable the iPhone, Android and Windows Phone applications for all users.)

External Messaging

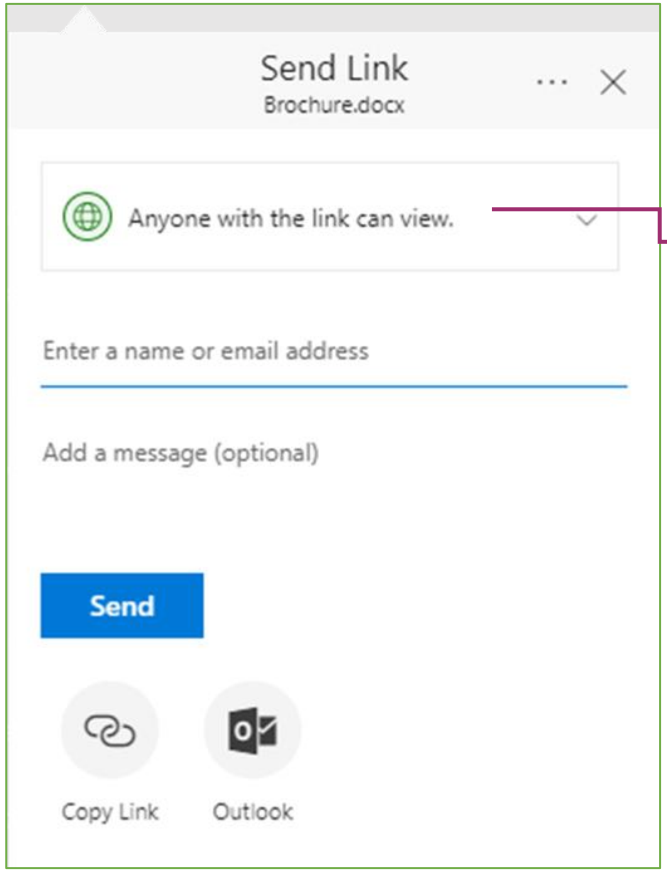
Yammer allows community admins to add people outside your organization to their Yammer communities to foster collaboration. Learn More

Allow community admins to add external users to their communities?

● Allow

○ Deny

Shareable Links



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Brochure.docx

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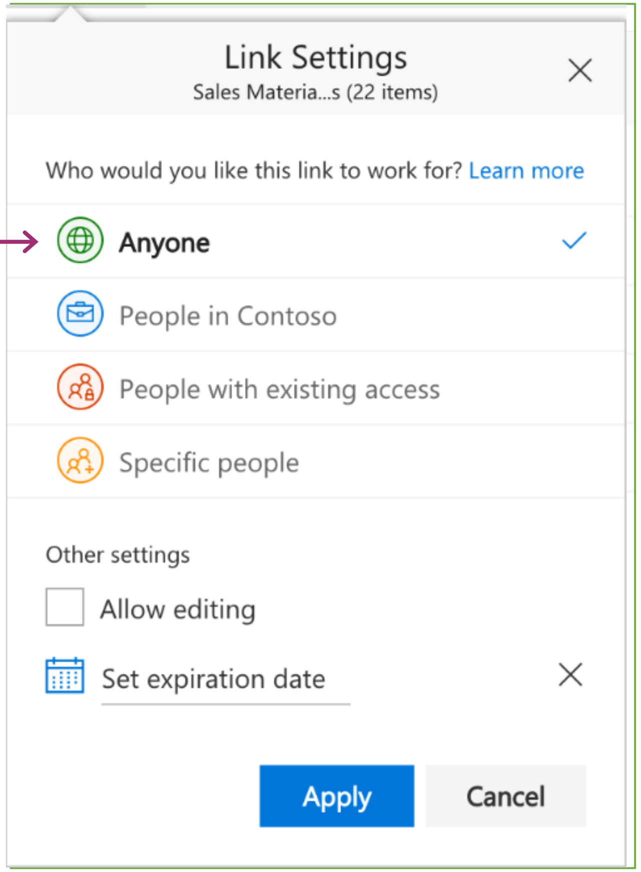

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Sales Materia...s (22 items)

Who would you like this link to work for? Learn more

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- People in Contoso
- People with existing access
- Specific people

Other settings

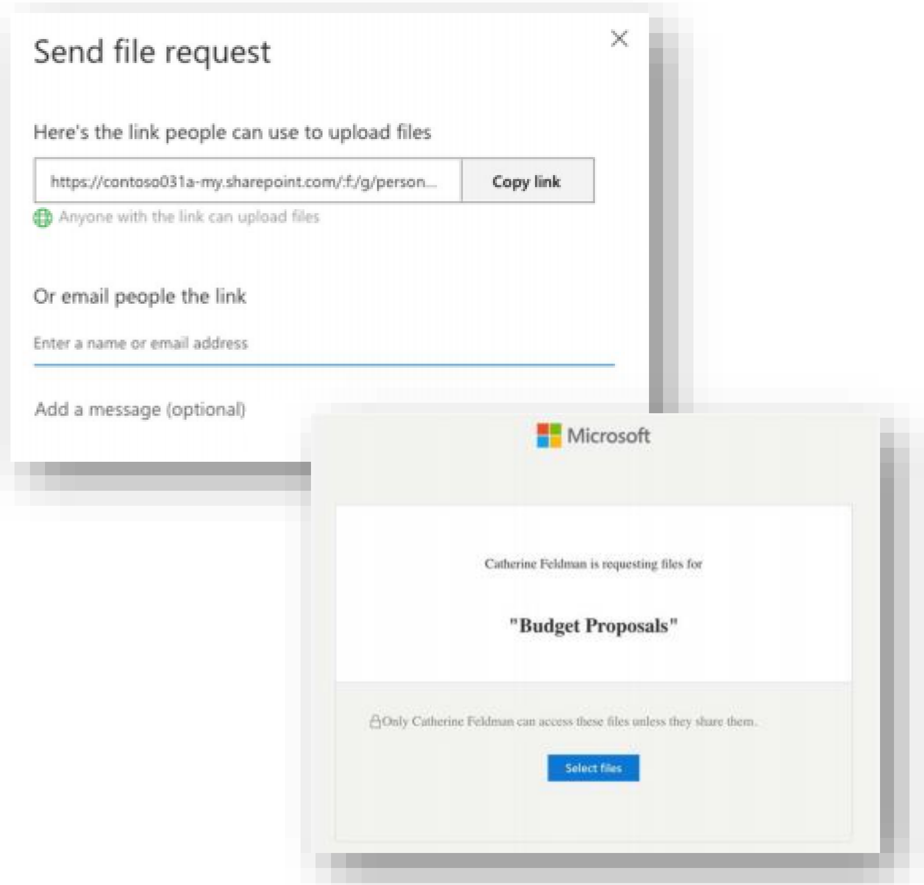
□ Allow editing

Set expiration date

Request Files

OneDrive for Business

- Ask colleagues and external guest users to upload files to a folder
- Uploaders can only see their own content
- Single link can be used for many uploaders



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External Users in Teams

External Users in Teams

B2B Guests

- User exists in the external Team’s Azure AD
- All the B2B controls apply
- Guests need to switch their Teams to the external tenant
  - Lose their home tenant’s Teams, notifications, feeds
- Can use different browser profiles for different tenants

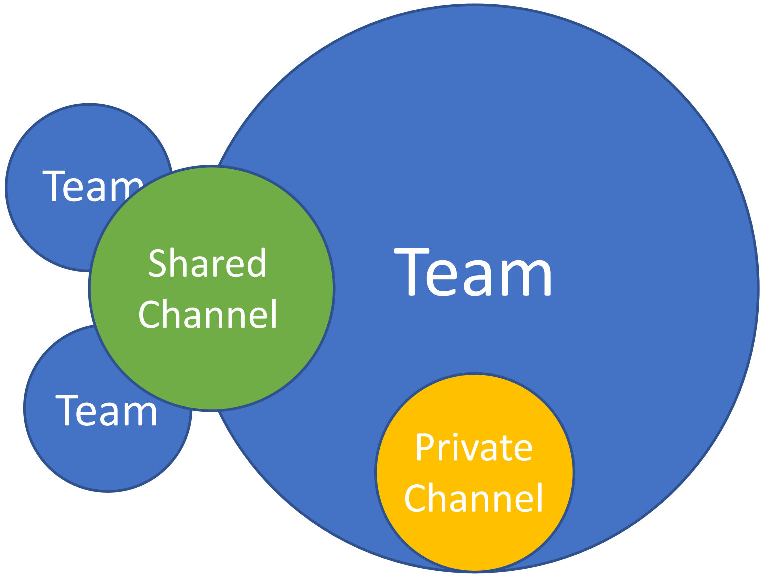
Teams Connect

- Needs to be enabled on both tenants
  - More for organization to organization sharing
- No tenant switching
- Shared channels appear with all the home Teams and channels
- Also appear in home activity feed

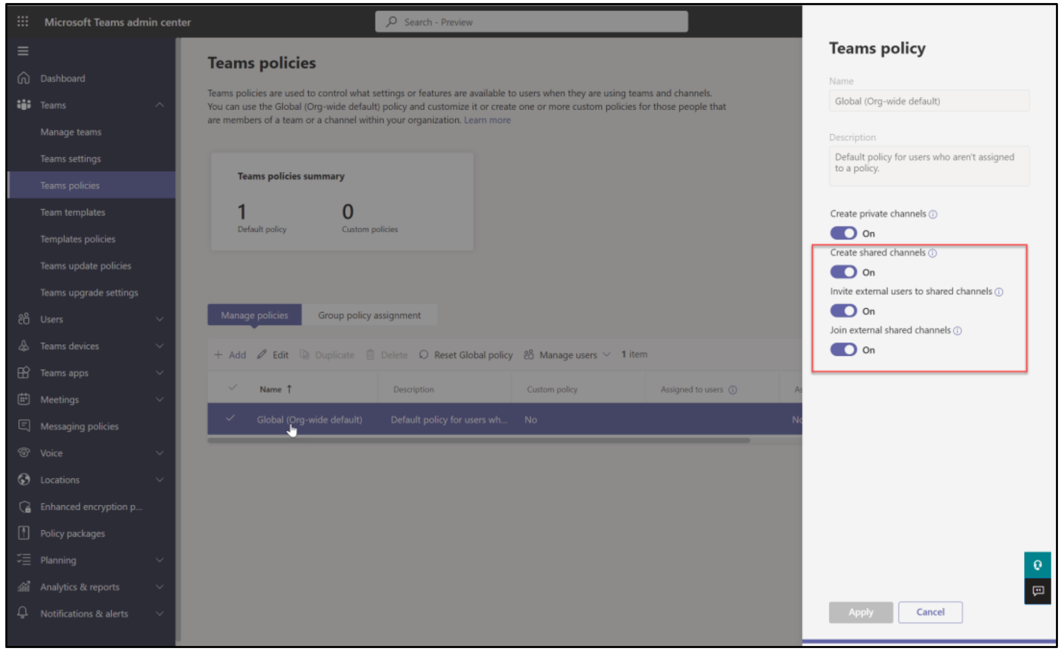
How We Use Teams Shared Channels | Extranet User Manager

Shared Channels vs. Private Channels

- Both channel styles create a channel site collection for documents
- Both have Teams restrictions on Apps and features
- Private channels let you invite a subset of the parent Team's members
- Shared channels let you invite anyone allowed in the tenant
  - Can also include other Teams
- Department team that is private to that department
  - All company channel for two way communication with the organization
- Outbound connections don't need to be setup
  - Just add members of the tenant



Configuring Shared Channels



Teams policies

Teams policies are used to control what settings or features are available to users when they are using teams and channels. You can use the Global (Org-wide default) policy and customize it or create one or more custom policies for those people that are members of a team or a channel within your organization. Learn more

Teams policies summary

1 Default policy

0 Custom policies

✓	Name ↑	Description	Custom policy	Assigned to users
✓	Global (Org-wide default)	Default policy for users wh...	No	No

Teams policy

Name: Global (Org-wide default)

Description: Default policy for users who aren't assigned to a policy.

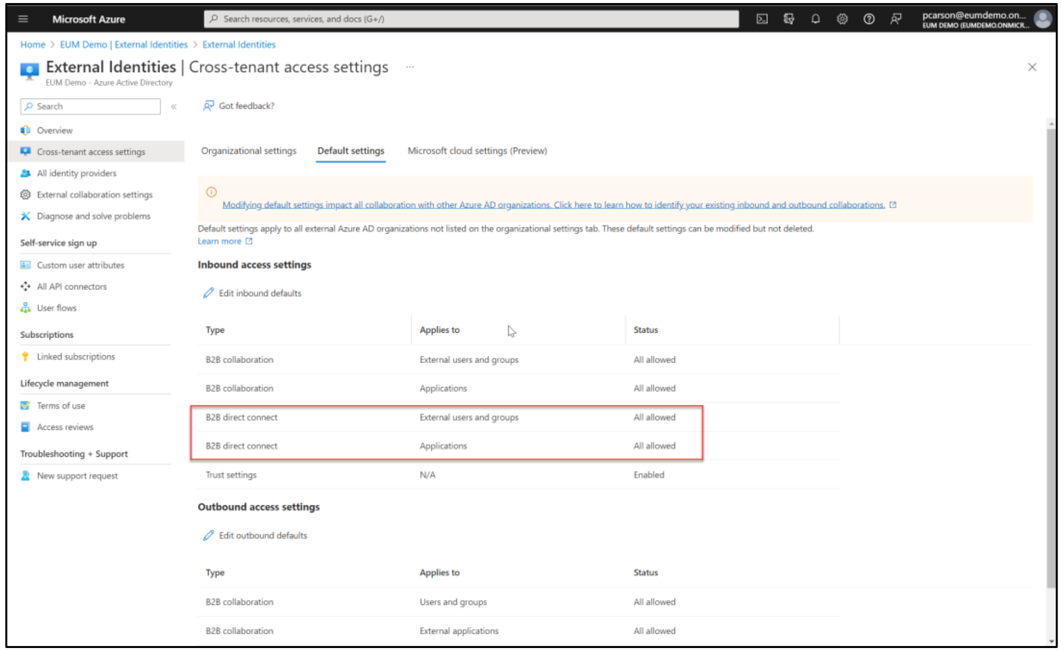
Create private channels: On

Create shared channels: On

Invite external users to shared channels: On

Join external shared channels: On

Teams Admin



External Identities | Cross-tenant access settings

EUM Demo - Azure Active Directory

Modifying default settings impact all collaboration with other Azure AD organizations. Click here to learn how to identify your existing inbound and outbound collaborations.

Default settings apply to all external Azure AD organizations not listed on the organizational settings tab. These default settings can be modified but not deleted. Learn more

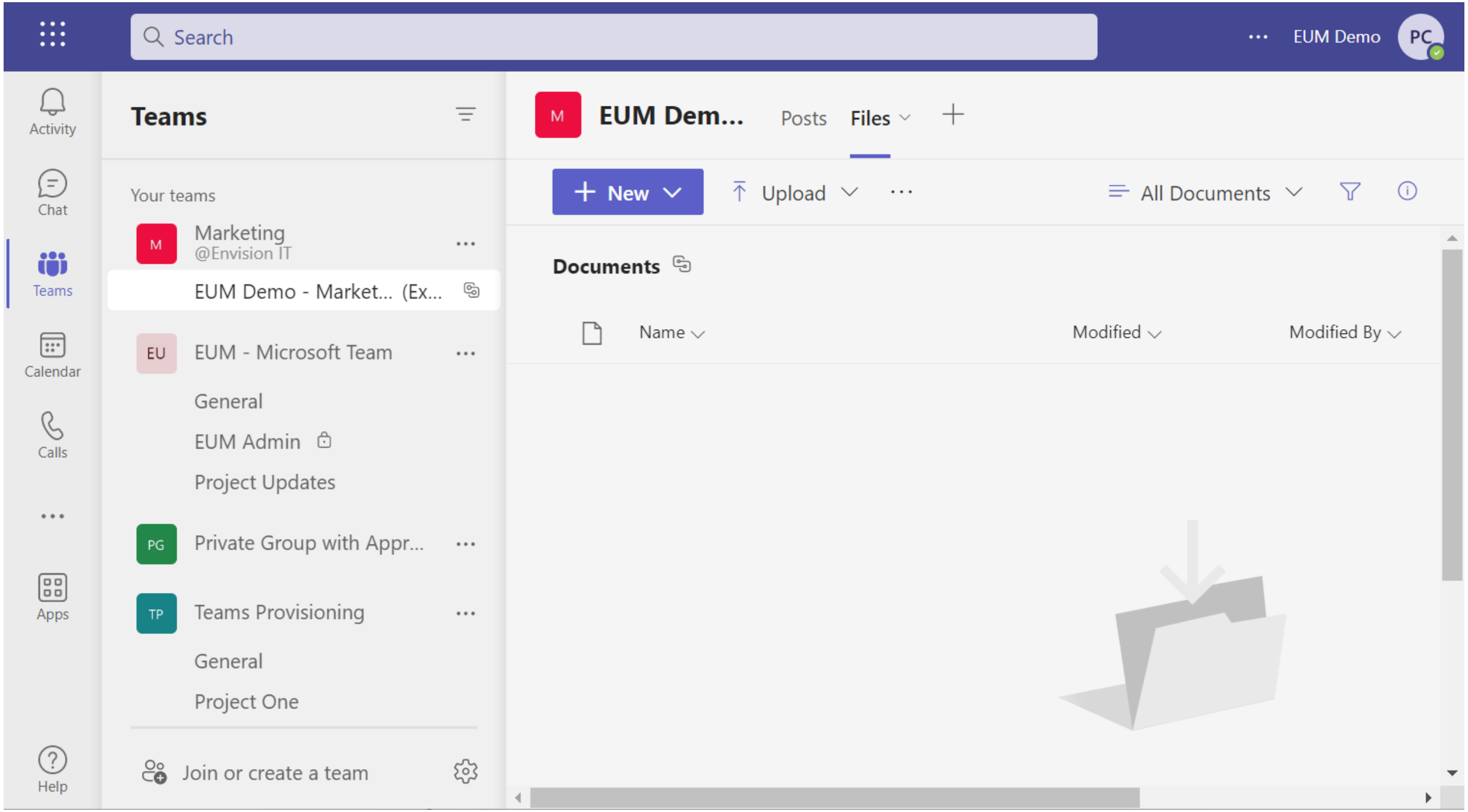
Inbound access settings

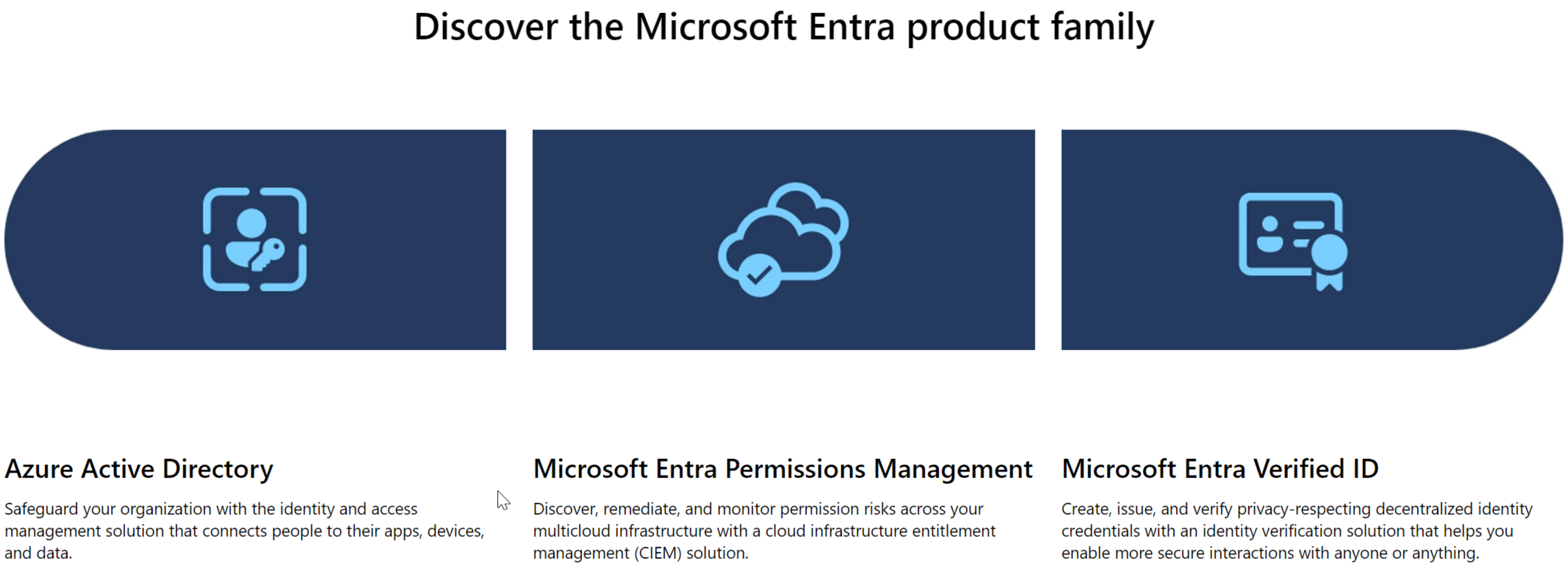
Type	Applies to	Status
B2B collaboration	External users and groups	All allowed
B2B collaboration	Applications	All allowed
B2B direct connect	External users and groups	All allowed
B2B direct connect	Applications	All allowed
Trust settings	N/A	Enabled

Outbound access settings

Type	Applies to	Status
B2B collaboration	Users and groups	All allowed
B2B collaboration	External applications	All allowed

Azure Portal


Search
EUM Demo
PC
Activity
Chat
Teams
Calendar
Calls
Apps
Help
Teams
Your teams
Marketing
@Envision IT
EUM Demo - Market... (Ex...
EU
EUM - Microsoft Team
General
EUM Admin
Project Updates
PG
Private Group with Appr...
TP
Teams Provisioning
General
Project One
Join or create a team
M
EUM Dem...
Posts
Files
New
Upload
All Documents
Documents
Name
Modified
Modified By



Discover the Microsoft Entra product family

Azure Active Directory

Safeguard your organization with the identity and access management solution that connects people to their apps, devices, and data.

Microsoft Entra Permissions Management

Discover, remediate, and monitor permission risks across your multicloud infrastructure with a cloud infrastructure entitlement management (CIEM) solution.

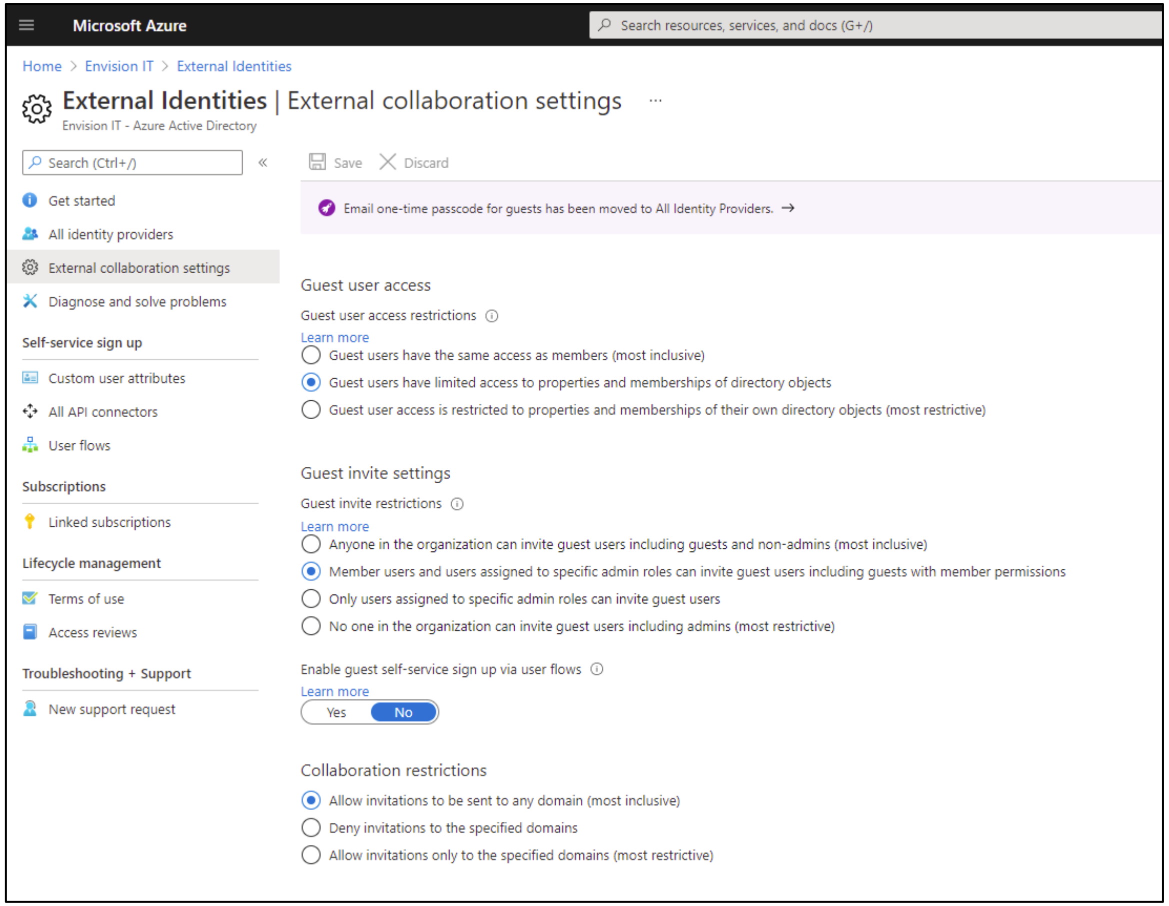
Microsoft Entra Verified ID

Create, issue, and verify privacy-respecting decentralized identity credentials with an identity verification solution that helps you enable more secure interactions with anyone or anything.

[Microsoft Entra - Secure Identities and Access | Microsoft Security]

Entra ID External Identities (B2B)

- Allow outside users access to apps and resources
- “Bring their own identities” to sign in
- External user’s identity provider manages their identity
- You manage access to apps within Azure AD protecting your resources



External Identities | External collaboration settings

Envision IT - Azure Active Directory

Email one-time passcode for guests has been moved to All Identity Providers. →

Guest user access

Guest user access restrictions

Learn more

○ Guest users have the same access as members (most inclusive)

● Guest users have limited access to properties and memberships of directory objects

○ Guest user access is restricted to properties and memberships of their own directory objects (most restrictive)

Guest invite settings

Guest invite restrictions

Learn more

○ Anyone in the organization can invite guest users including guests and non-admins (most inclusive)

● Member users and users assigned to specific admin roles can invite guest users including guests with member permissions

○ Only users assigned to specific admin roles can invite guest users

○ No one in the organization can invite guest users including admins (most restrictive)

Enable guest self-service sign up via user flows

Learn more

Yes [✓ No]

Collaboration restrictions

● Allow invitations to be sent to any domain (most inclusive)

○ Deny invitations to the specified domains

○ Allow invitations only to the specified domains (most restrictive)

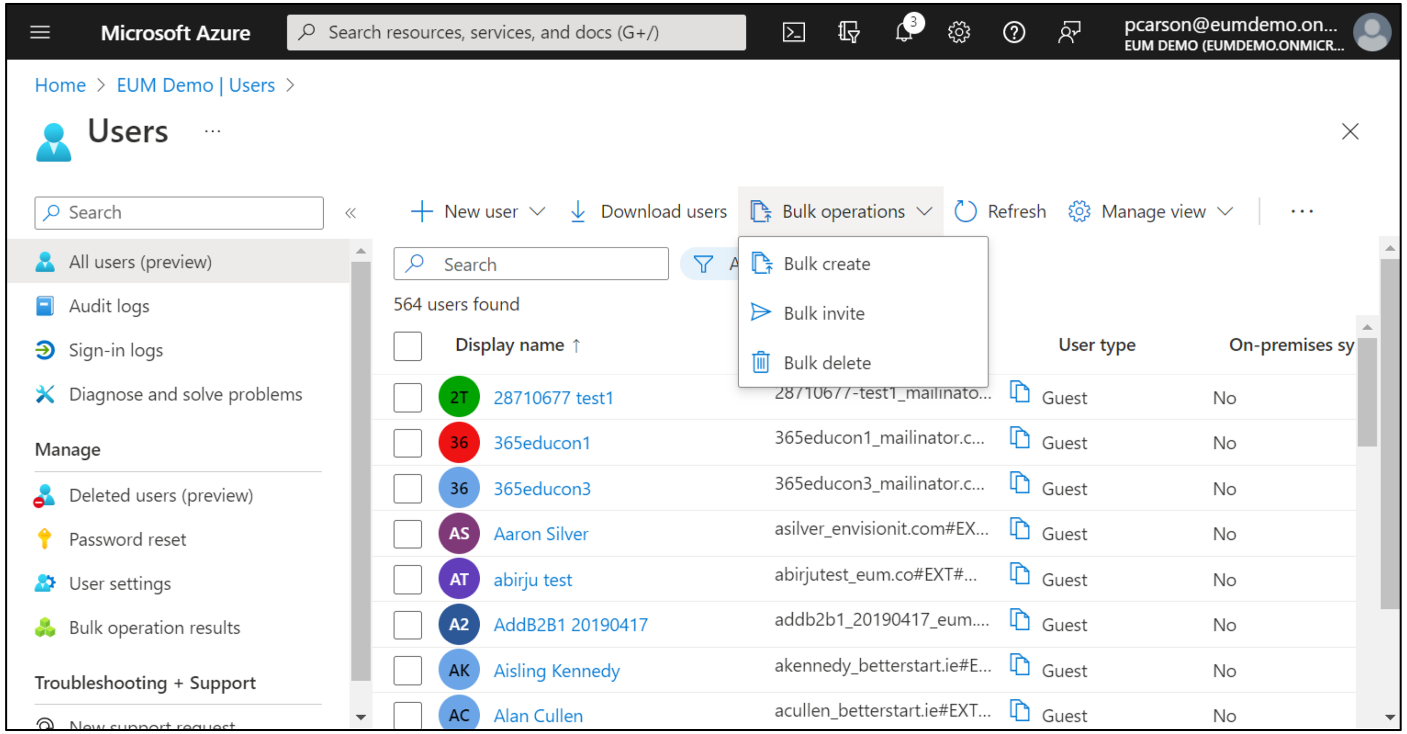
External Identities documentation | Microsoft Docs

Entra ID and Microsoft 365

- Entra ID Business to Business
- External users can access Microsoft 365 and any other system exposed through AAD
- Completely free for certain Microsoft 365 workloads for external users
    - SharePoint
    - Yammer
    - Teams
    - Planner
    - Office Online
- MAU billing model only applies to Entra ID Premium features
- First 50,000 MAU are free for Premium features
- Invite as many external users as you'd like

Azure AD Invitation Process

- Invitations are done through the Entra portals
- Not a business friendly interface
- Can be one at a time, or bulk import by CSV
- Need to have Global Admin, User Administrator, or Guest Inviter role
- Guest Inviters can only set the email and display name
  - Cannot edit or delete after creation
  - Could build a Power App, Power Automate, or Logic App to help with this



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365educon1	365educon1_mailinator.c...	Guest	No
365educon3	365educon3_mailinator.c...	Guest	No
Aaron Silver	asilver_envisionit.com#EX...	Guest	No
abirju test	abirjutest_eum.co#EXT#...	Guest	No
AddB2B1 20190417	addb2b1_20190417_eum....	Guest	No
Aisling Kennedy	akennedy_betterstart.ie#E...	Guest	No
Alan Cullen	acullen_betterstart.ie#EXT...	Guest	No

Entra ID B2B Onboarding Experiences

Existing Microsoft 365

- Logs in with their Entra credentials
- Seamless experience
- Single sign-on if already signed into Microsoft 365
- Also works for Microsoft accounts

No Azure AD Account

- One time passcode
- Emailed at sign-in
- Valid for 30 minutes
- Low friction, no new account to setup or password to remember
- Validates at each sign in that they still own the email address

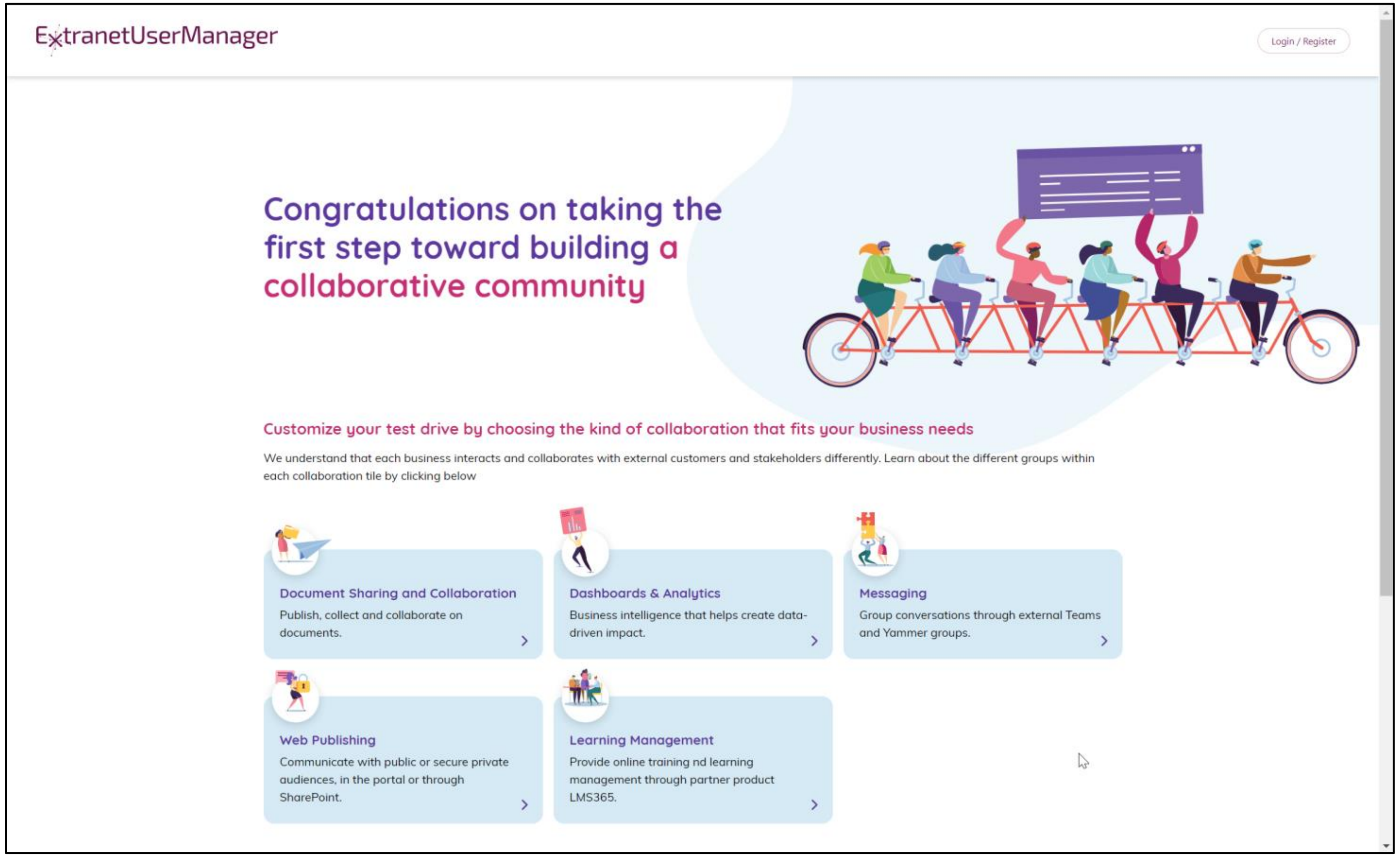
Social User

- Federation with Google and Facebook accounts now also supported
- Same seamless login experience as Microsoft 365
- Need to be an @gmail.com address for Google Federation

Email One-Time Passcode Authentication

- New way to authenticate Guest users without:
  - Entra ID account
  - Microsoft account
  - Social provider - Google or Facebook
- Temporary passcode is sent to email address
- Passcode is entered to sign in
- One-time passcode is valid for 30 minutes
- Next user session will send a new passcode to the user

EUM Test Ride



Congratulations on taking the first step toward building a collaborative community

Customize your test drive by choosing the kind of collaboration that fits your business needs

We understand that each business interacts and collaborates with external customers and stakeholders differently. Learn about the different groups within each collaboration tile by clicking below

Document Sharing and Collaboration
Publish, collect and collaborate on documents.

Dashboards & Analytics
Business intelligence that helps create data-driven impact.

Messaging
Group conversations through external Teams and Yammer groups.

Web Publishing
Communicate with public or secure private audiences, in the portal or through SharePoint.

Learning Management
Provide online training nd learning management through partner product LMS365.

portal.eumdemo.com/testride

Microsoft at RSA 2020

> 1.2M	Compromised accounts in January 2020
99.9%	Compromised accounts did not have MFA
99%	Password spray attacks used legacy authentication
> 97%	Replay attacks used legacy authentication

[Entra ID and Microsoft 365 Security Fundamentals | Extranet User Manager]

MFA Scenarios

Admins

- Require MFA on every authentication

Members

- Rules can be more flexible
- Don’t need MFA on every authentication
- Every x days on the same device
- Additional rules
    - Joined device
    - Geography
    - Identity Protection score
    - Incorrect password

Guests

- Decide if MFA is required
- User experience and support cost to requiring it
- Doesn’t need to be all or nothing
- Sensitivity labels are a good way to control this

Entra Portal B2B Links

Cross Tenant Settings

- B2B Collaboration
- B2B Direct Connect
- Trust Settings

Identity Providers

- Microsoft
- One-Time Passcode
- Google
- Facebook
- Custom SAML / WS-Federation

External Collaboration Settings

- Access, invite, and collaboration restrictions

Self-Service Sign Up

- User Attributes
- API Connectors
- User Flows

Lifecycle Management

- Terms of Use
- Access Reviews

Company Branding

Security

- Conditional Access
- Terms of Use

Monitoring

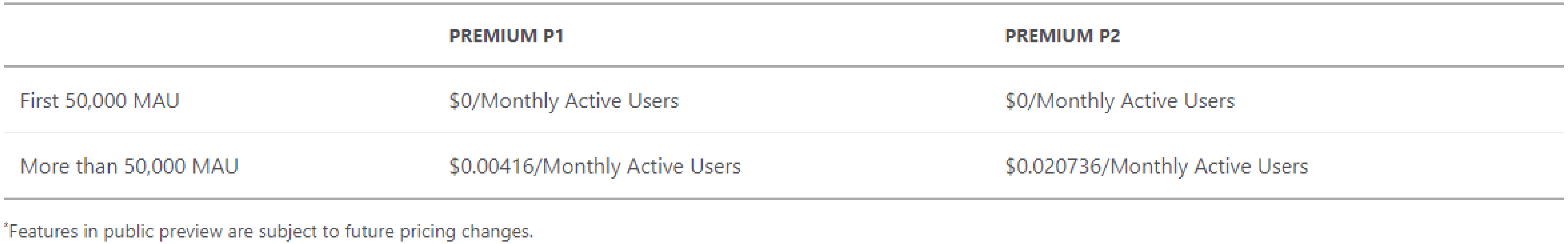
- Sign-In Logs
- Audit Logs
- Diagnostic Logs

Entra ID P1 vs. P2

Entra ID Premium P1	Entra ID Premium P2
• Multi-factor authentication with Conditional Access • Hybrid Identities • Password protection (custom banned passwords) • Advanced Security and Usage Reports • Conditional Access based on group, location, and device status • Azure Information Protection integration • And Much More	• Everything offered in P1 • Identity Protection • Privileged Identity Management • Access reviews • Entitlement Management (Preview)

Updates to Entra ID External Identity Licensing

- External identities now count as unique Monthly Active Users (MAU)
- Billing model affects Entra ID B2B and B2C
- Replaces 1:5 billing ratio
- First 50,000 MAUs are free for both Premium P1 and Premium P2 features
- Entra ID Free will remain free unless you need premium Entra ID features for guests



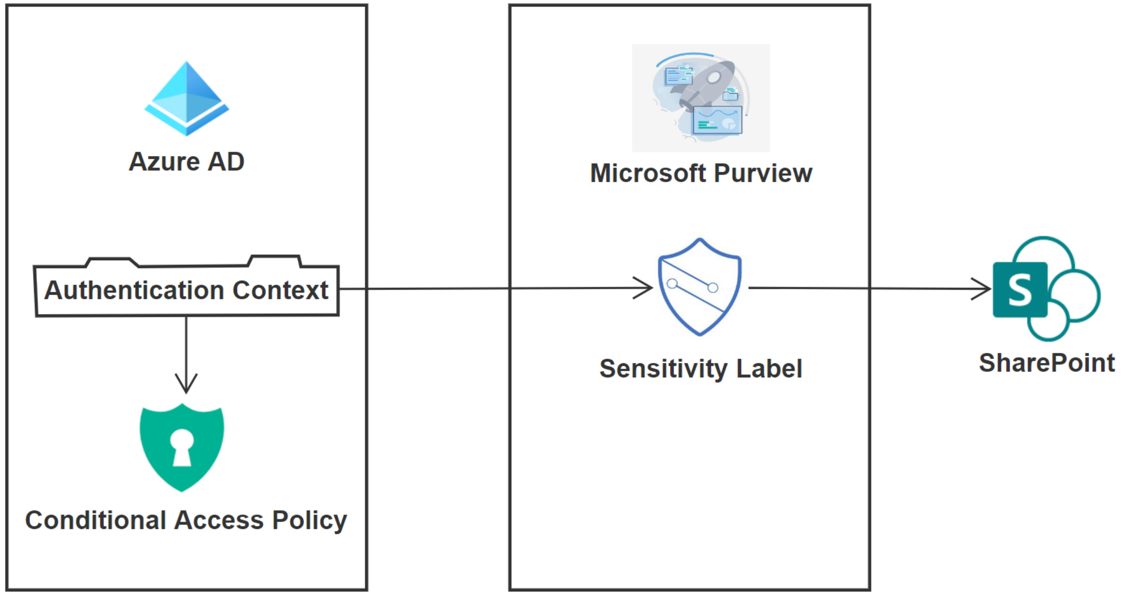
	PREMIUM P1	PREMIUM P2
First 50,000 MAU	$0/Monthly Active Users	$0/Monthly Active Users
More than 50,000 MAU	$0.00416/Monthly Active Users	$0.020736/Monthly Active Users

*Features in public preview are subject to future pricing changes.

https://docs.microsoft.com/en-us/azure/active-directory/external-identities/external-identities-pricing
https://azure.microsoft.com/en-us/pricing/details/active-directory/external-identities/

Sensitivity Labels

- Labels can be applied to content in Microsoft 365
  - Emails
  - SharePoint sites and content
- Can be manually or automatically applied
- Can be leveraged in conditional access policies
- Can also enforce rights management and encryption
- Travels with the content regardless of location
- Can be applied to sharing rules
- Requires Office 365 E5 Compliance

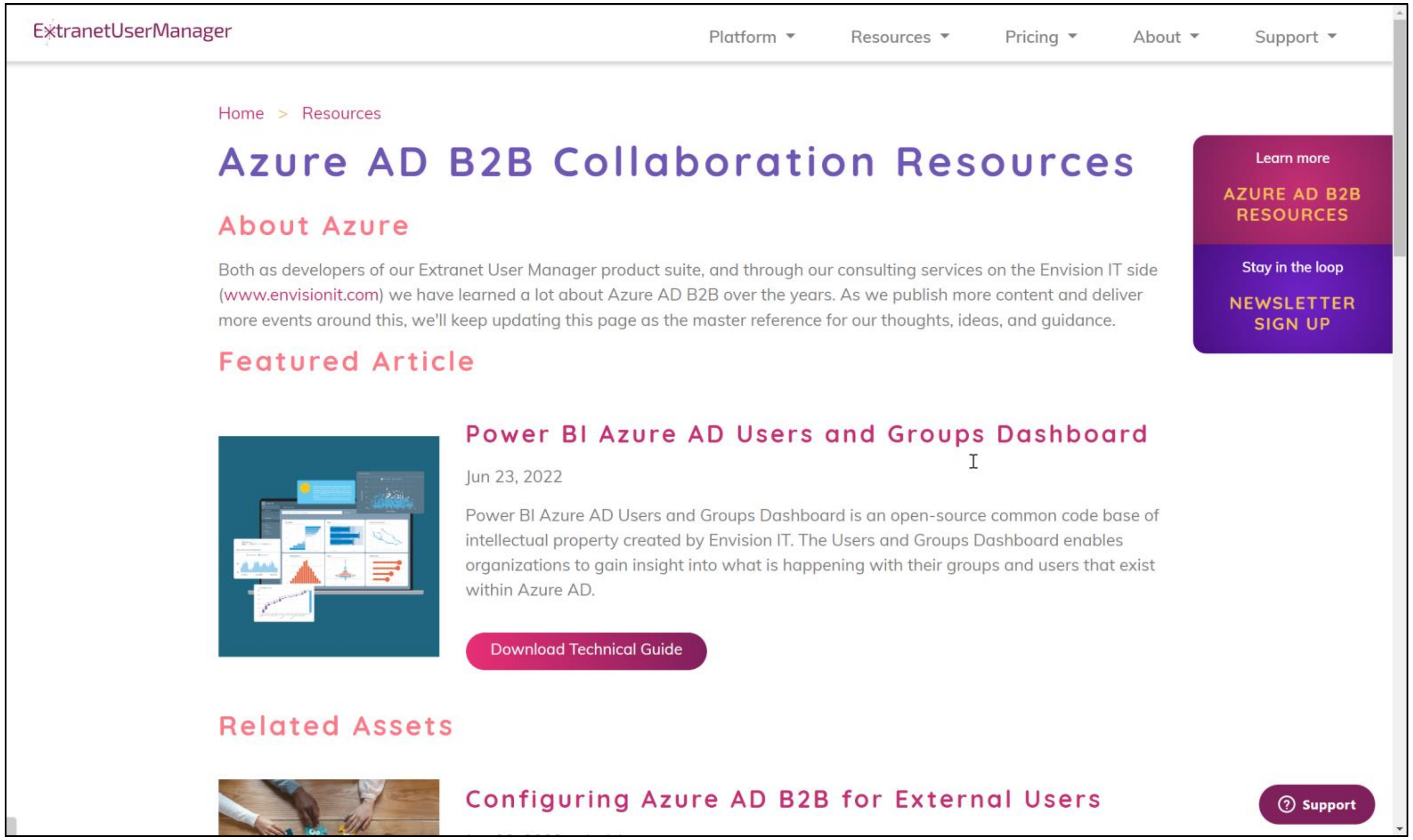


Sensitivity Labels Walkthrough

Entra ID B2B Health

- User Type Not Populated
  - Users created before Aug 2014 when B2B first launched
- Mismatch Between Email and UPN
  - Can cause confusion when signing in
- Missing Email
  - Email is required for direct sign in without accepting the Microsoft invitation
- Unaccepted Invitations
  - Invitations are no longer needed
  - Users that were invited when it was required and didn't accept can't sign in
  - Resending the invitation still requires them to use the invitation
  - Deleting and re-inviting them allows them to sign in without the invitation
- Conflicting Microsoft Account
  - Brings up work/school or personal account dialog
  - Doesn't always prompt
  - Causes confusion

Entra ID B2B Resources



Home > Resources

Azure AD B2B Collaboration Resources

About Azure

Both as developers of our Extranet User Manager product suite, and through our consulting services on the Envision IT side (www.envisionit.com) we have learned a lot about Azure AD B2B over the years. As we publish more content and deliver more events around this, we'll keep updating this page as the master reference for our thoughts, ideas, and guidance.

Learn more

AZURE AD B2B RESOURCES

Stay in the loop

NEWSLETTER SIGN UP

Featured Article

Power BI Azure AD Users and Groups Dashboard

Jun 23, 2022

Power BI Azure AD Users and Groups Dashboard is an open-source common code base of intellectual property created by Envision IT. The Users and Groups Dashboard enables organizations to gain insight into what is happening with their groups and users that exist within Azure AD.

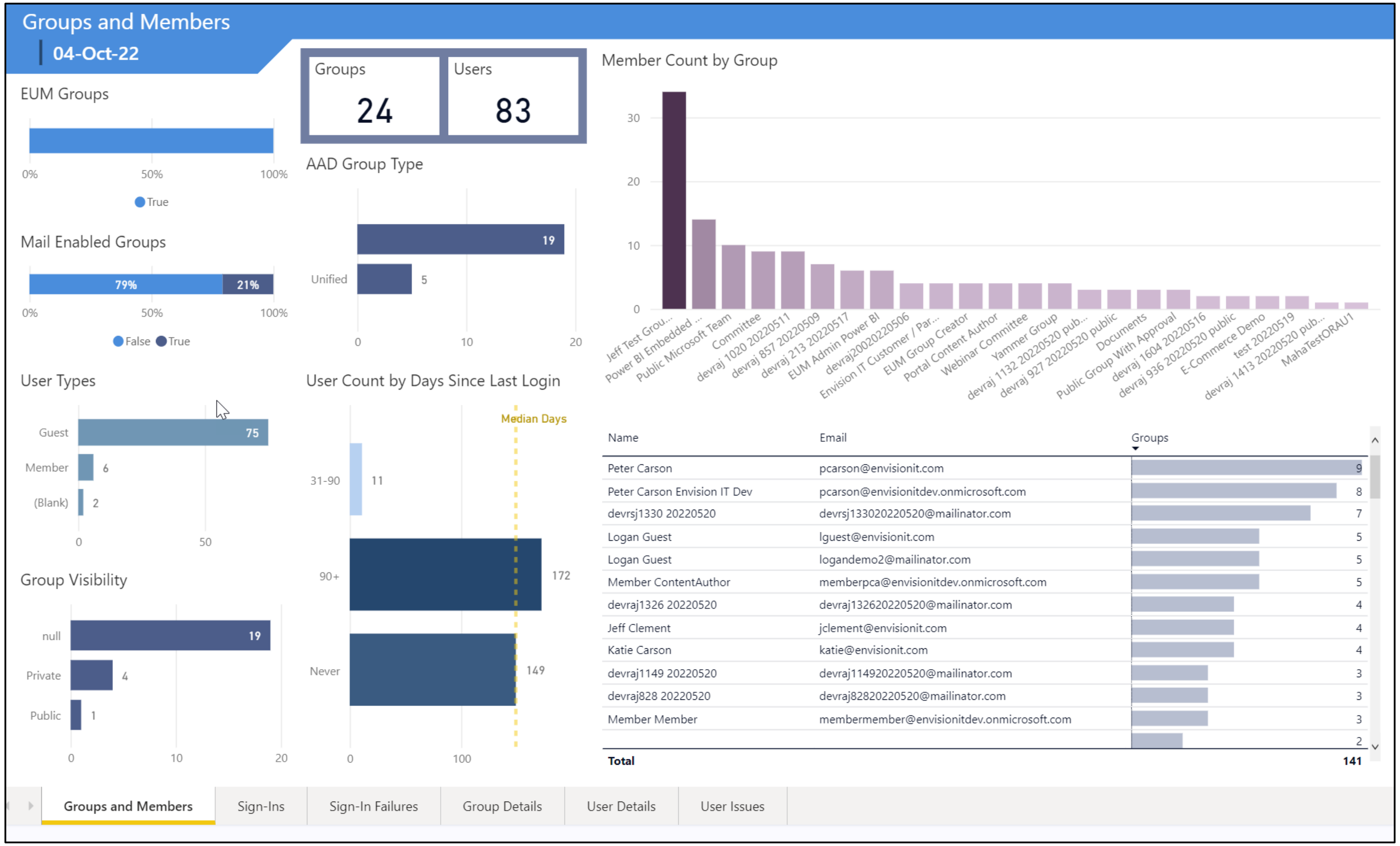
Download Technical Guide

Related Assets

Configuring Azure AD B2B for External Users

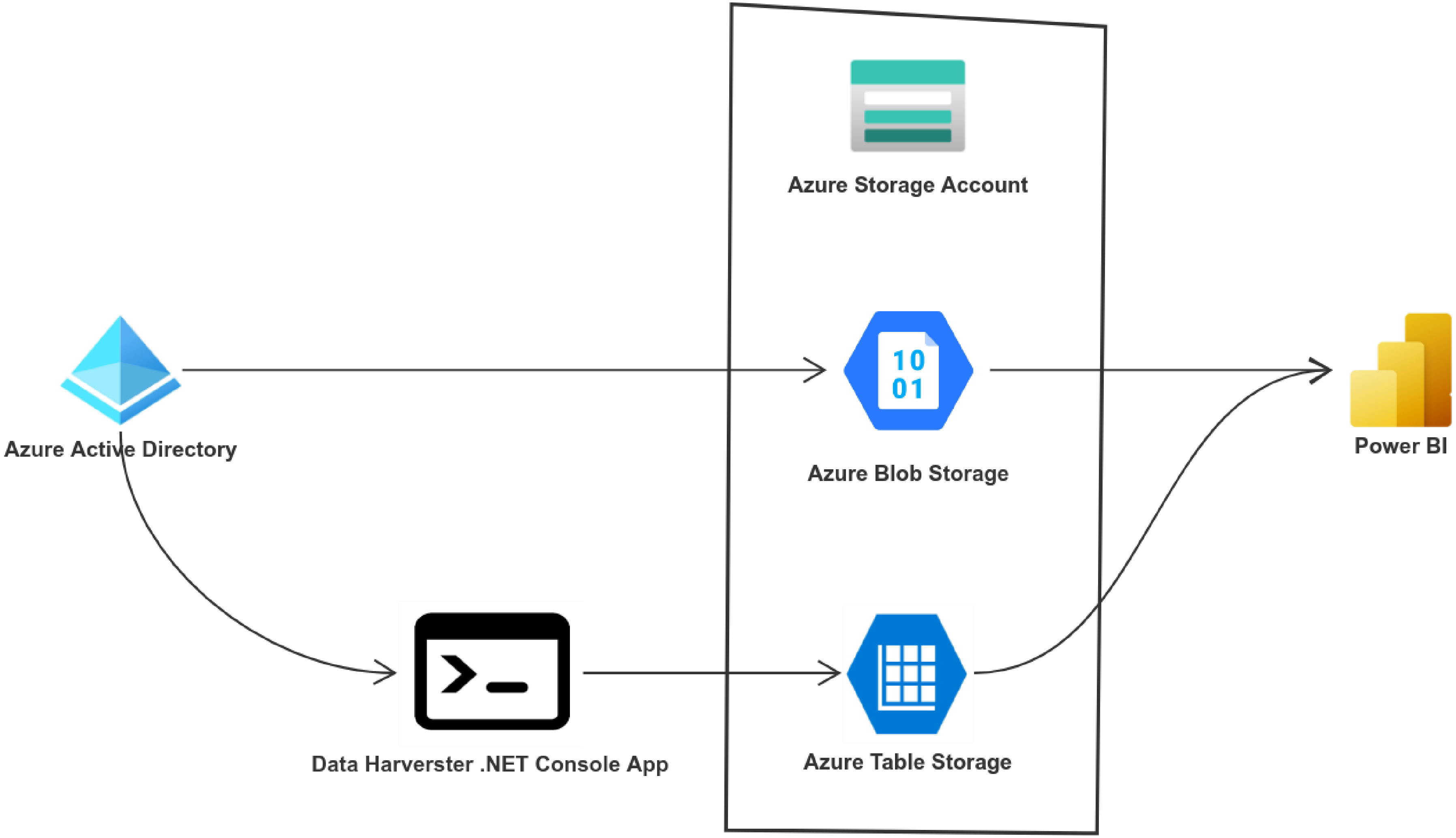
https://www.extranetusermanager.com/resources/Azure-AD-B2B-Collaboration-Resources
https://github.com/extranet-user-manager/EUM_AzureADPowerBI

Entra ID Power BI Dashboard



Name	Email	Groups
Peter Carson	pcarson@envisionit.com	9
Peter Carson Envision IT Dev	pcarson@envisionitdev.onmicrosoft.com	8
devrsj1330 20220520	devrsj13020220520@mailinator.com	7
Logan Guest	lguest@envisionit.com	5
Logan Guest	logandemo2@mailinator.com	5
Member ContentAuthor	memberpca@envisionitdev.onmicrosoft.com	5
devraj1326 20220520	devraj132620220520@mailinator.com	4
Jeff Clement	jclement@envisionit.com	4
Katie Carson	katie@envisionit.com	4
devraj1149 20220520	devraj114920220520@mailinator.com	3
devraj828 20220520	devraj82820220520@mailinator.com	3
Member Member	membermember@envisionitdev.onmicrosoft.com	3
		2
Total		**141**

Power BI Data Harvester



Microsoft 365
Portals

Why Build a Microsoft 365 Focused Portal?

- Microsoft 365 is already the spot you're working and collaborating in
- You can build a robust portal that relies on a strong Microsoft 365 foundation
  - SharePoint Online
    - Documents
  - Teams
    - Meetings
    - Recordings
    - Channel conversations
- Stop sharing through email and third party solutions
- Leverage the Microsoft 365 Security and Compliance features while hiding the complexity
- It's time to integrate how you're working with how you're sharing

Portal Considerations

- **How are users invited to the Portal?**
  - Invitation Only – Manual or Automated
  - Public Registration
  - Private Registration
- **What Portal functionality is required?**
  - Secured web content
  - Viewing / Downloading / Uploading documents
  - Co-authoring documents
  - SharePoint Online sites, Teams, or Yammer
  - Third-Party or Internal Applications
- **Who is responsible for Portal content and administration?**

Types of Portals

Member Portals

Board/Committee Sites

Data Portals

Document Sharing

Training Portals

Structured Sharing with Microsoft 365

- Typically hundreds to hundreds of thousands of external users
- Represent many different groups of external users
  - Projects
  - Committees
  - Customers/Partners/Vendors
- May **have** many different business owners
  - Owners can be internal or external

Microsoft 365 Structured Sharing Options

Roll Your Own

- Build in the tool of your choice
- Integrate through the Graph API

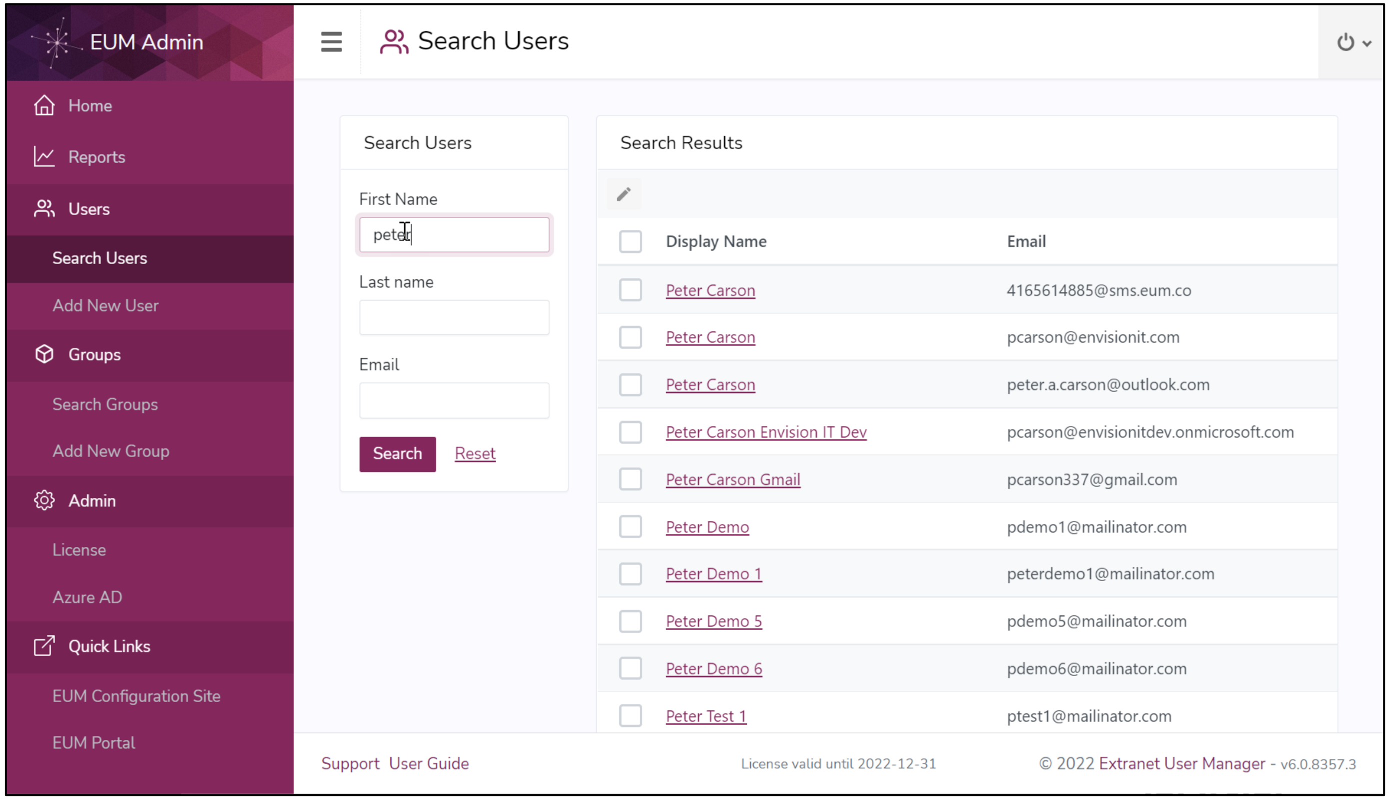
Entra ID

- Self-registration and workflows define onboarding process
- Some branding and customization
- Dynamic groups

Extranet User Manager

- Fully brandable and customizable
- EUM Admin portal for creating and managing users and groups
- Licensed by the pool size of external users

Extranet User Manager



First Name: peter

Last name:

Email:

□	Display Name	Email
□	Peter Carson	4165614885@sms.eum.co
□	Peter Carson	pcarson@envisionit.com
□	Peter Carson	peter.a.carson@outlook.com
□	Peter Carson Envision IT Dev	pcarson@envisionitdev.onmicrosoft.com
□	Peter Carson Gmail	pcarson337@gmail.com
□	Peter Demo	pdemo1@mailinator.com
□	Peter Demo 1	peterdemo1@mailinator.com
□	Peter Demo 5	pdemo5@mailinator.com
□	Peter Demo 6	pdemo6@mailinator.com
□	Peter Test 1	ptest1@mailinator.com

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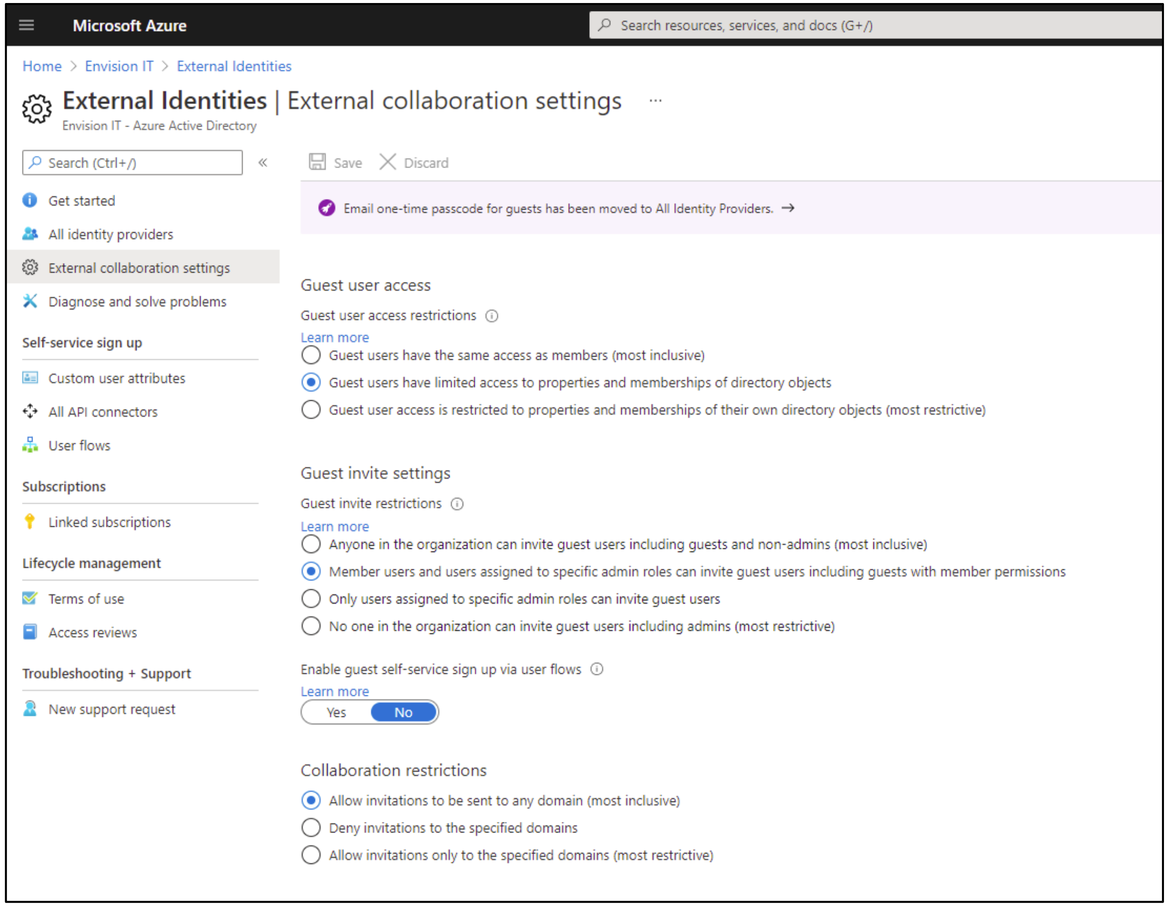
- Simple delegation to the business or external users
- Invitation, self-registration, and bulk import
- Approval workflows and auto-approvals
- Group management and discovery
- Mobile friendly

Azure AD External Identities (B2B)

- Self-service sign up
  - Custom attributes
  - API connectors
- Lifecycle management
  - Terms of use
  - Entitlement packages
  - Access reviews



External Identities | External collaboration settings

Envision IT - Azure Active Directory

Email one-time passcode for guests has been moved to All Identity Providers. →

Guest user access

Guest user access restrictions

Learn more

- ○ Guest users have the same access as members (most inclusive)
- ● Guest users have limited access to properties and memberships of directory objects
- ○ Guest user access is restricted to properties and memberships of their own directory objects (most restrictive)

Guest invite settings

Guest invite restrictions

Learn more

- ○ Anyone in the organization can invite guest users including guests and non-admins (most inclusive)
- ● Member users and users assigned to specific admin roles can invite guest users including guests with member permissions
- ○ Only users assigned to specific admin roles can invite guest users
- ○ No one in the organization can invite guest users including admins (most restrictive)

Enable guest self-service sign up via user flows

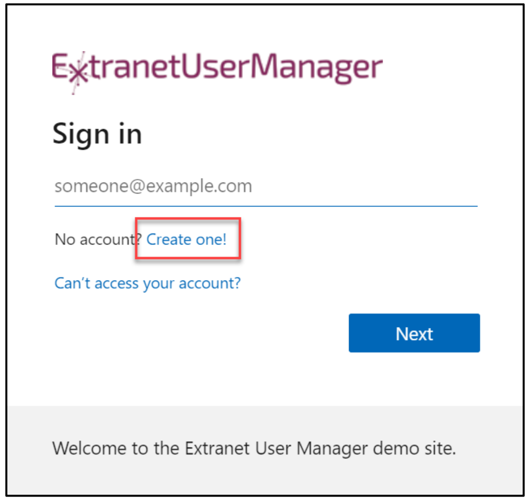
Learn more

Yes [✓ No]

Collaboration restrictions

- ● Allow invitations to be sent to any domain (most inclusive)
- ○ Deny invitations to the specified domains
- ○ Allow invitations only to the specified domains (most restrictive)

[External Identities documentation | Microsoft Docs]



ExtranetUserManager

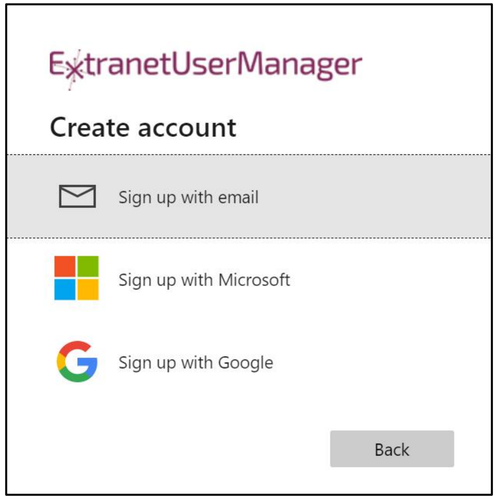
Sign in

someone@example.com

No account? Create one!

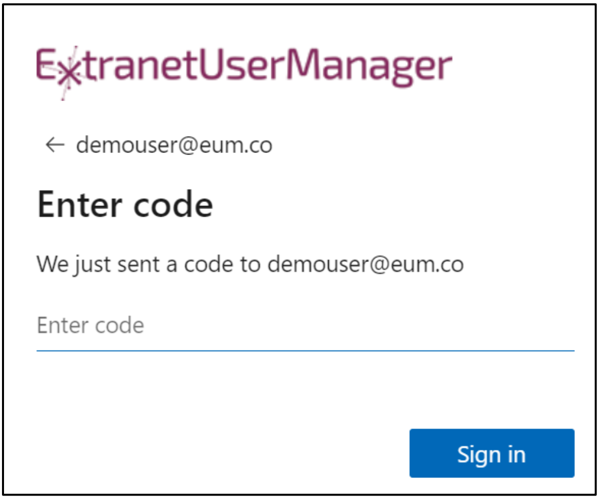
Can't access your account?

Welcome to the Extranet User Manager demo site.



ExtranetUserManager

Create account



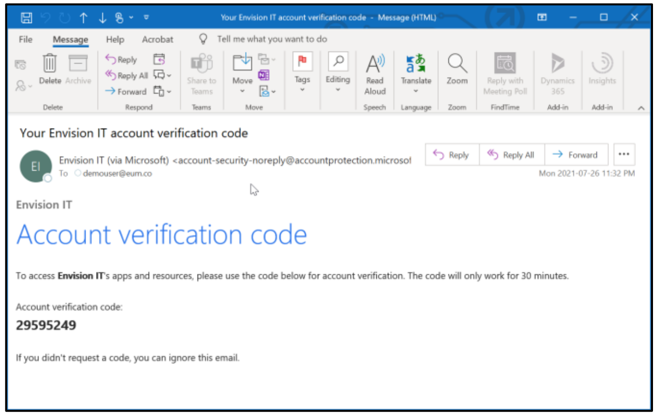
ExtranetUserManager

← demouser@eum.co

Enter code

We just sent a code to demouser@eum.co

Enter code



Your Envision IT account verification code - Message (HTML)

Your Envision IT account verification code

EI Envision IT (via Microsoft) <account-security-noreply@accountprotection.microsof

To demouser@eum.co

Mon 2021-07-26 11:32 PM

Envision IT

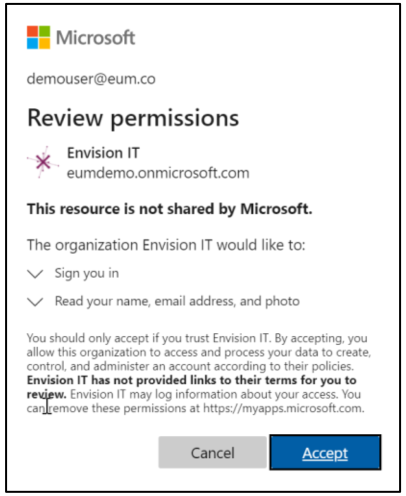
Account verification code

To access **Envision IT**'s apps and resources, please use the code below for account verification. The code will only work for 30 minutes.

Account verification code:

29595249

If you didn't request a code, you can ignore this email.



Microsoft

demouser@eum.co

Review permissions

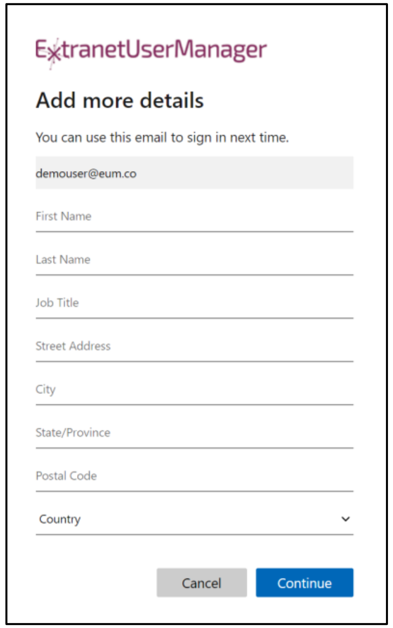
Envision IT
eumdemo.onmicrosoft.com

This resource is not shared by Microsoft.

The organization Envision IT would like to:

- Sign you in
- Read your name, email address, and photo

You should only accept if you trust Envision IT. By accepting, you allow this organization to access and process your data to create, control, and administer an account according to their policies. **Envision IT has not provided links to their terms for you to review.** Envision IT may log information about your access. You can remove these permissions at https://myapps.microsoft.com.



ExtranetUserManager

Add more details

You can use this email to sign in next time.

demouser@eum.co

First Name

Last Name

Job Title

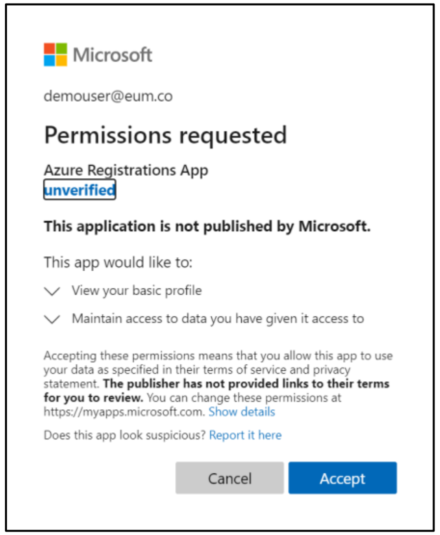
Street Address

City

State/Province

Postal Code

Country



Microsoft

demouser@eum.co

Permissions requested

Azure Registrations App
unverified

This application is not published by Microsoft.

This app would like to:

- View your basic profile
- Maintain access to data you have given it access to

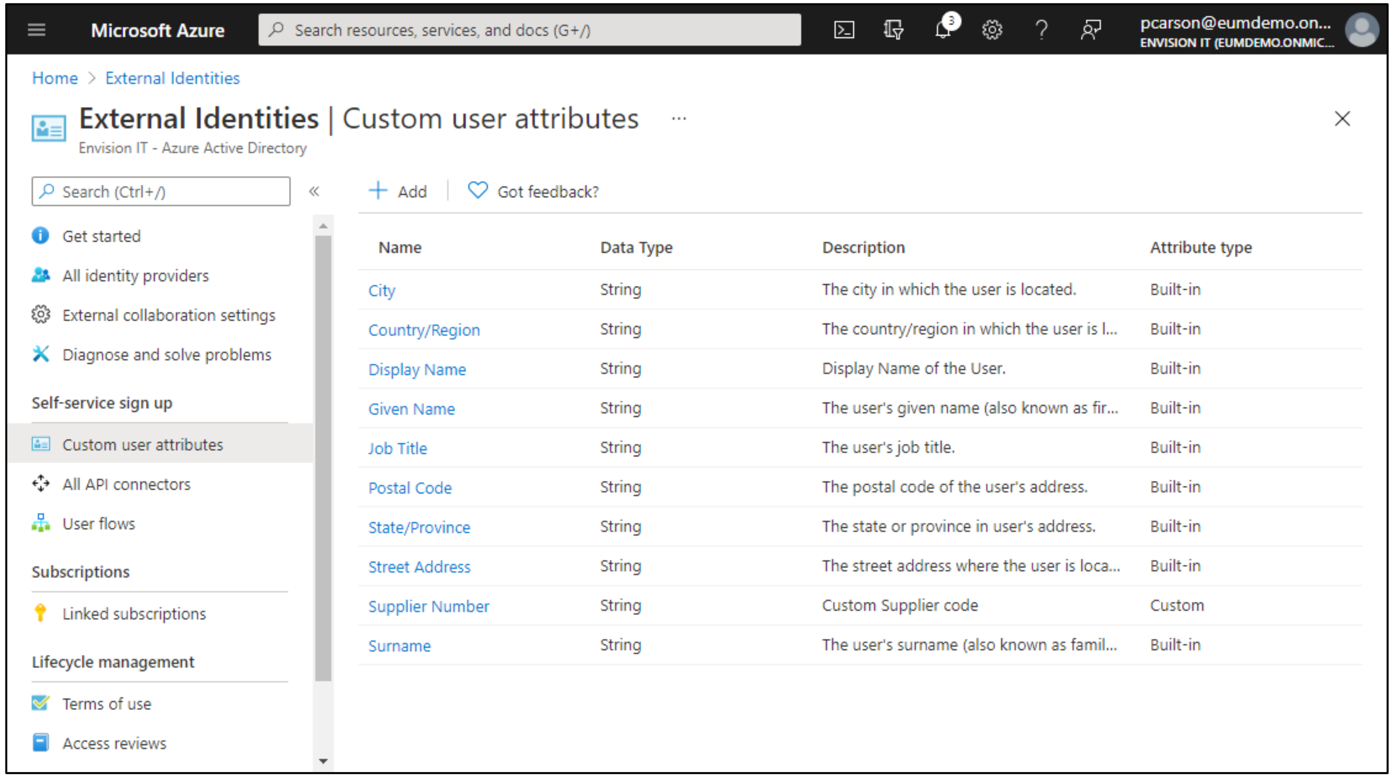
Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. **The publisher has not provided links to their terms for you to review.** You can change these permissions at https://myapps.microsoft.com. Show details

Does this app look suspicious? Report it here

Self-Service User Sign-Up – Attributes

- Choose what user information you require to provide access to Application
- Both built-in and custom attributes
- Steps to configure:
    - Define any custom attributes
    - Assign the attributes to a user flow
    - Define the page layout
    - Define any additional languages

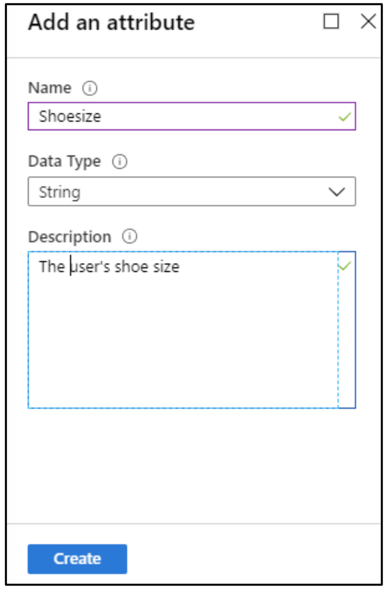
Define the Attributes



External Identities | Custom user attributes

Envision IT - Azure Active Directory

Name	Data Type	Description	Attribute type
City	String	The city in which the user is located.	Built-in
Country/Region	String	The country/region in which the user is l...	Built-in
Display Name	String	Display Name of the User.	Built-in
Given Name	String	The user's given name (also known as fir...	Built-in
Job Title	String	The user's job title.	Built-in
Postal Code	String	The postal code of the user's address.	Built-in
State/Province	String	The state or province in user's address.	Built-in
Street Address	String	The street address where the user is loca...	Built-in
Supplier Number	String	Custom Supplier code	Custom
Surname	String	The user's surname (also known as famil...	Built-in



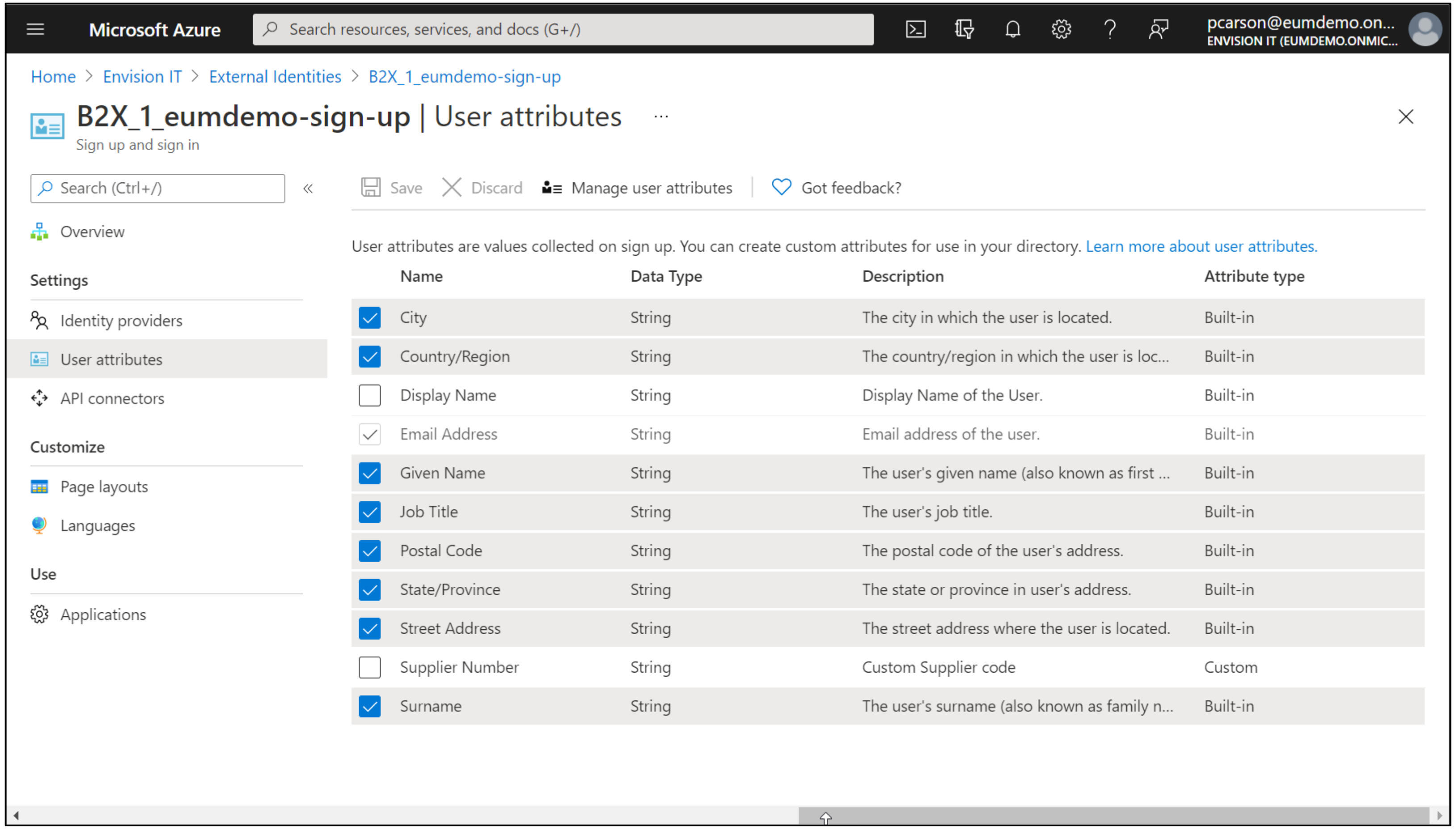
Add an attribute

Name: Shoesize

Data Type: String

Description: The user's shoe size

Assign the Attributes to a User Flow



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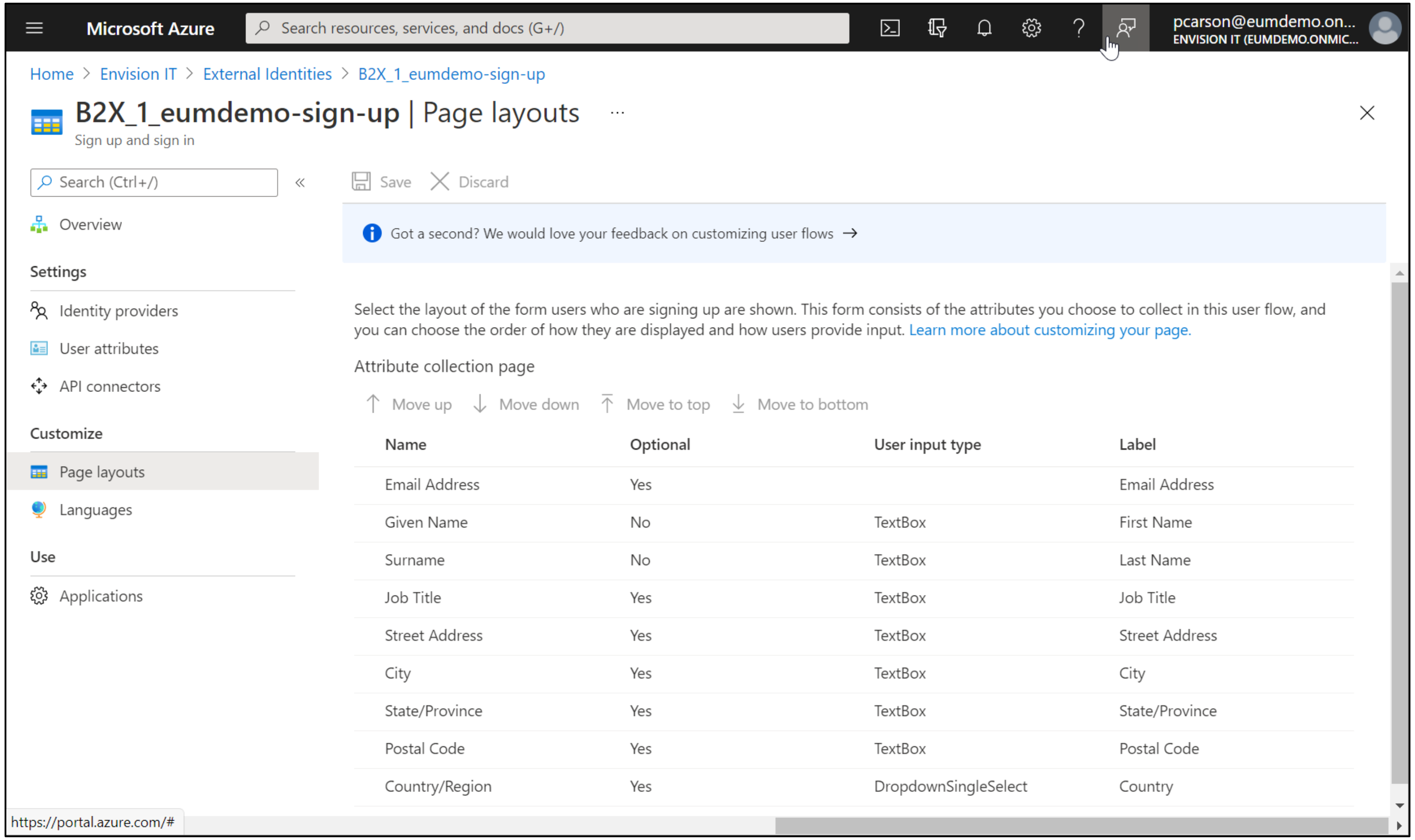
B2X_1_eumdemo-sign-up | User attributes

Sign up and sign in

User attributes are values collected on sign up. You can create custom attributes for use in your directory. Learn more about user attributes.

	Name	Data Type	Description	Attribute type
☑	City	String	The city in which the user is located.	Built-in
☑	Country/Region	String	The country/region in which the user is loc...	Built-in
□	Display Name	String	Display Name of the User.	Built-in
✓	Email Address	String	Email address of the user.	Built-in
☑	Given Name	String	The user's given name (also known as first ...	Built-in
☑	Job Title	String	The user's job title.	Built-in
☑	Postal Code	String	The postal code of the user's address.	Built-in
☑	State/Province	String	The state or province in user's address.	Built-in
☑	Street Address	String	The street address where the user is located.	Built-in
□	Supplier Number	String	Custom Supplier code	Custom
☑	Surname	String	The user's surname (also known as family n...	Built-in

Define the Page Layout



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B2X_1_eumdemo-sign-up | Page layouts

Sign up and sign in

Got a second? We would love your feedback on customizing user flows →

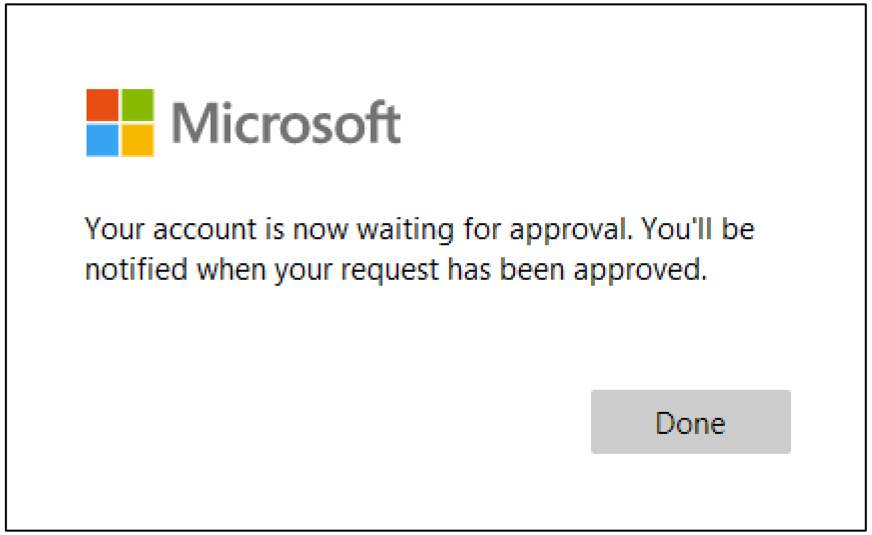
Select the layout of the form users who are signing up are shown. This form consists of the attributes you choose to collect in this user flow, and you can choose the order of how they are displayed and how users provide input. Learn more about customizing your page.

Attribute collection page

Name	Optional	User input type	Label
Email Address	Yes		Email Address
Given Name	No	TextBox	First Name
Surname	No	TextBox	Last Name
Job Title	Yes	TextBox	Job Title
Street Address	Yes	TextBox	Street Address
City	Yes	TextBox	City
State/Province	Yes	TextBox	State/Province
Postal Code	Yes	TextBox	Postal Code
Country/Region	Yes	DropdownSingleSelect	Country

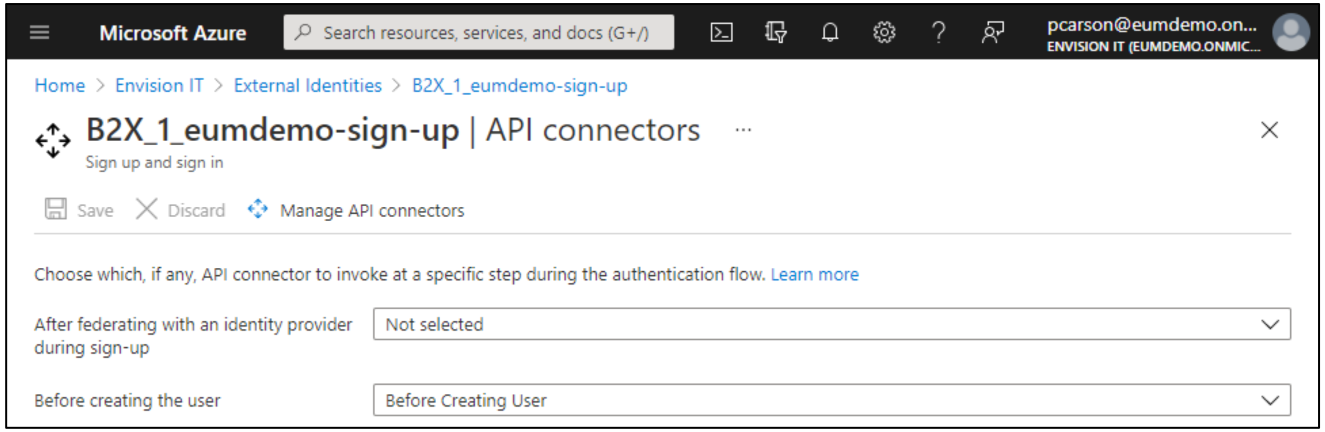
Custom Approval Workflows

- API connectors allow you to integrate custom approval workflows into the self-service sign up



Microsoft

Your account is now waiting for approval. You'll be notified when your request has been approved.



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B2X_1_eumdemo-sign-up | API connectors

Sign up and sign in

Save
Discard
Manage API connectors

Choose which, if any, API connector to invoke at a specific step during the authentication flow. Learn more

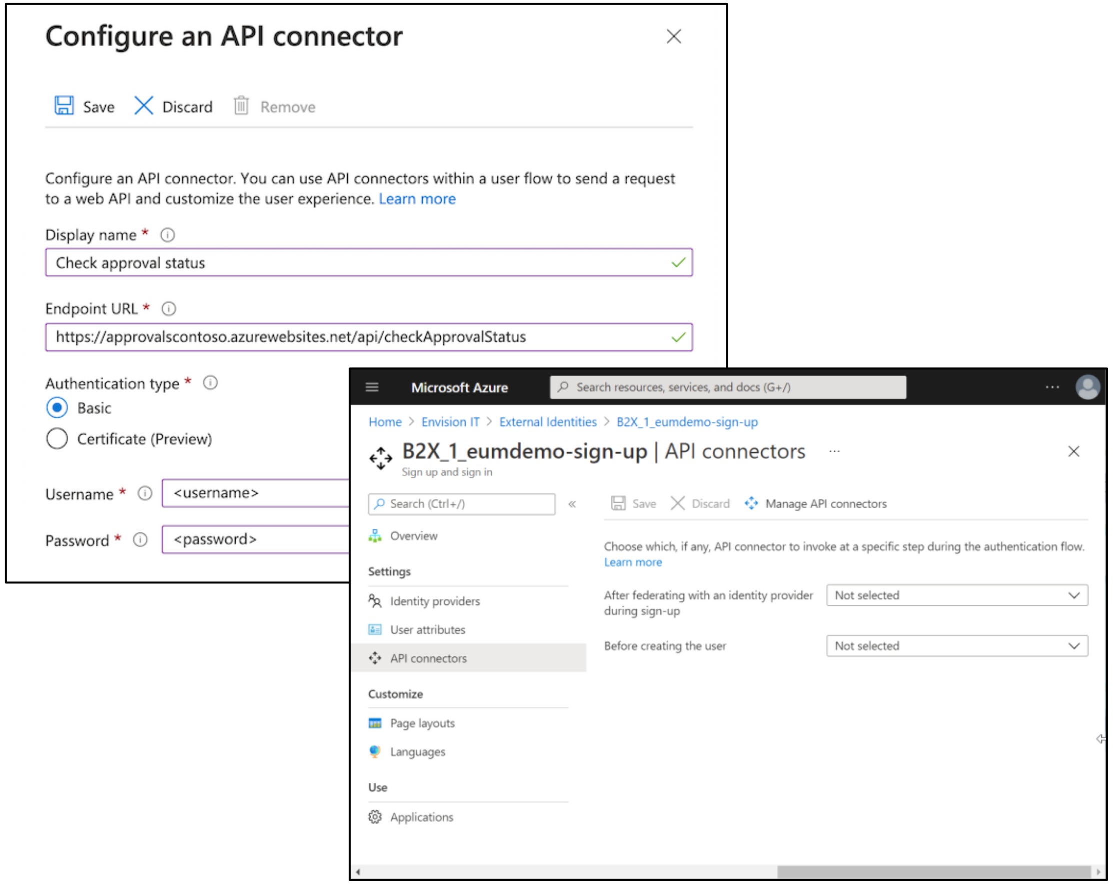
After federating with an identity provider during sign-up: Not selected

Before creating the user: Before Creating User

[Add custom approvals to self-service sign-up flows - Azure AD | Microsoft Docs]

Custom Approval Workflows

- Preferred approach to building a full custom API is to use Logic Apps
- Use Azure API Management in front of Logic App to handle the security
  - Basic auth or certificate
- Can have rules to assign group memberships
- Can also be done with dynamic groups



Configure an API connector

Configure an API connector. You can use API connectors within a user flow to send a request to a web API and customize the user experience. Learn more

Display name * : Check approval status

Endpoint URL * : https://approvalscontoso.azurewebsites.net/api/checkApprovalStatus

Authentication type *

● Basic

○ Certificate (Preview)

Username * : <username>

Password * : <password>

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B2X_1_eumdemo-sign-up | API connectors

Sign up and sign in

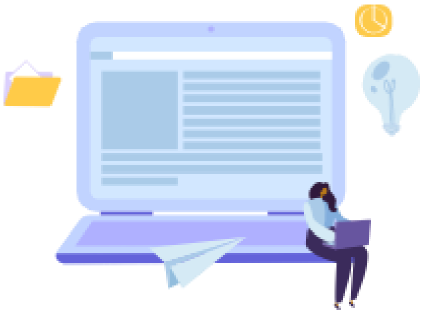
Choose which, if any, API connector to invoke at a specific step during the authentication flow. Learn more

After federating with an identity provider during sign-up: Not selected

Before creating the user: Not selected

[Add custom approvals to self-service sign-up flows - Azure AD | Microsoft Docs]

Let’s stay connected



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