







Beyond the Thunderdome: Microsoft 365 Guest & External Access Inside & Out!

Andy Malone MVP





This Session we'll Discuss ...

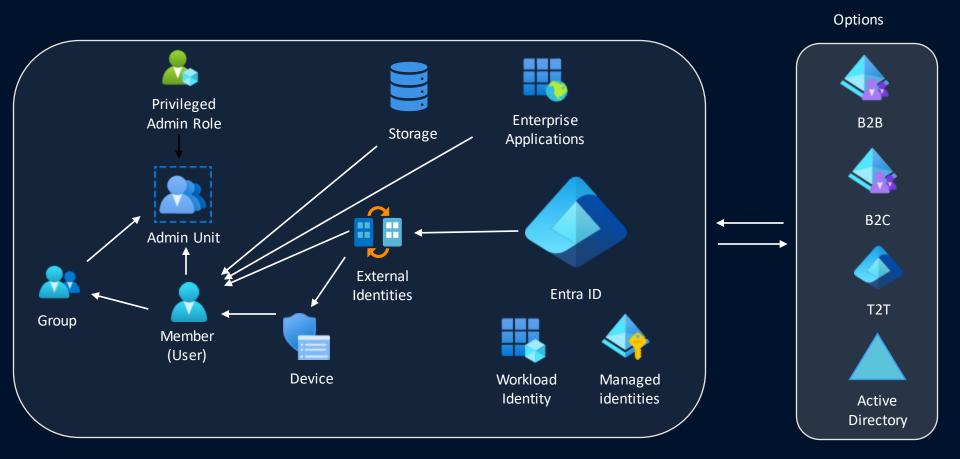
- Identity Types B2B Vs T2T Vs B2C
- Understand Members Vs Users
- External Collaboration Settings explained
- Microsoft 365 Multi Tennant Collaboration
- Cross Tenant Synchronization (T2T)
- Demos Demos!
- Conclusions







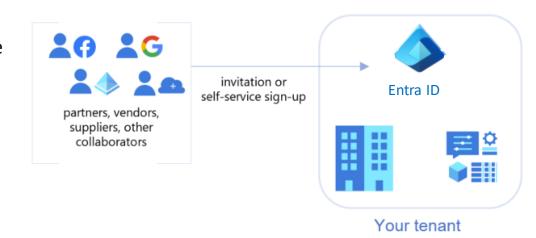
Microsoft Entra ID Identity Types





Identity Types -B2B (Business to Business)

- B2B Allows Federation between two directories.
- Used to prevent the creation of duplicate accounts for the same users across directories.
- Enables and simplified organization collaboration.
- Creates identities (called external identities) to easily assign resources to.





Identity Types - Entra B2C (Business to Consumer)

Customers

Social IDs, email, local accounts









Business and Government IDs









Securely authenticate your customers using their preferred identity provider

Capture login, preference, and conversion data for customers

Provide branded (white label) registration and login experiences

Business

Apps and APIs



Analytics



Integration with other systems





External Vs Member Users





 $User_domain.com \verb|#EXT| \verb|#Tenant.onmicrosoft.com|$

user@Tenant.onmicrosoft.com

Туре	External Guest	External Member
External	collaboration user has an account in an external Microsoft Entra organization or an external identity provider	Uses an external account to authenticate. But has member level permissions within your organization
	Most users who are commonly considered external users or guests fall into this category	A common Scenarios in Multi Tenant Scenarios (T2T)
	Internal Guest	Internal Member
Internal	Has an Internal account in Entra ID but only has guest level access to organizational resources	Has a member level account in your Entra ID Directory and member level access in your organization
	This is often a legacy guest user created before the availability of Entra ID B2B	Generally considered employees of your organization



Identity Types & Sign In Methods

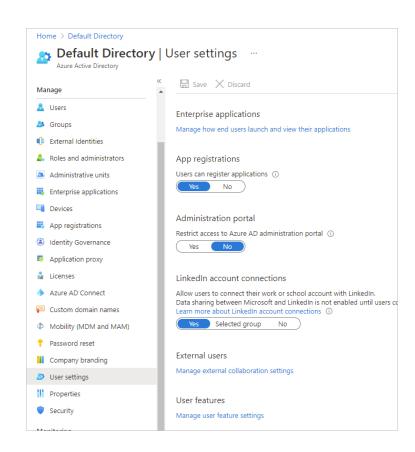
Identities property value	Sign-in state
ExternalAzureAD	This user is homed in an external organization and authenticates by using a Microsoft Entra account that belongs to the other organization.
Microsoft account	This user is homed in a Microsoft account and authenticates by using a Microsoft account.
{host's domain}	This user authenticates by using a Microsoft Entra account that belongs to this organization.
google.com	This user has a Gmail account and has signed up by using self-service to the other organization.
facebook.com	This user has a Facebook account and has signed up by using self-service to the other organization.
mail	This user has signed up by using Microsoft Entra External ID email one-time passcode (OTP).
{issuer URI}	This user is homed in an external organization that doesn't use Microsoft Entra ID as their identity provider, but instead uses a SAML/WS-Fed-based identity provider. The issuer URI is shown when the Identities field is clicked.

Note* Phone sign-in is not supported for external users. B2B accounts cannot use phonevalue as an identity provider.



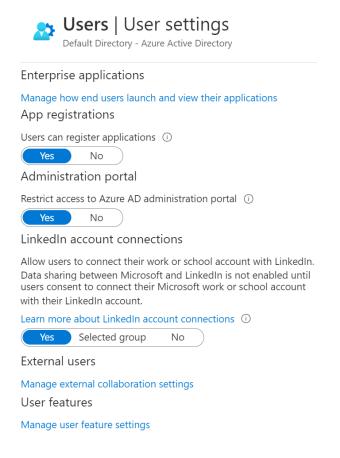
Before you Start! Understand External Permissions

- Guest users have default restricted directory permission
- They can manage their own profile, change their own password, and retrieve limited information about other users, groups, and apps.
- B2B guest users are not supported in Microsoft Teams shared channels.
- For access to shared channels see B2B direct connect.





Permission & Roles





Roles and administrators | All roles

Default Directory - Azure Active Directory

Administrative roles

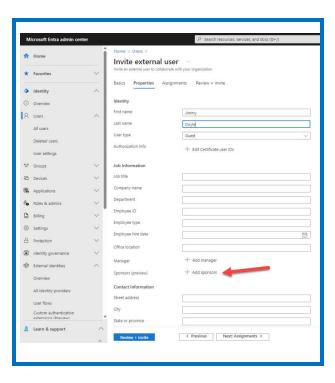
Administrative roles are used for granting access for privilege application configuration. Learn more.

Learn more about Azure AD role-based access control

Search by name or description				
Role				
Application administrator				
Application developer				
Attack payload author				
Attack simulation administrator				
Attribute assignment administrator				
Attribute assignment reader				
Attribute definition administrator				
Attribute definition reader				



Creating / Inviting a Guest (External)



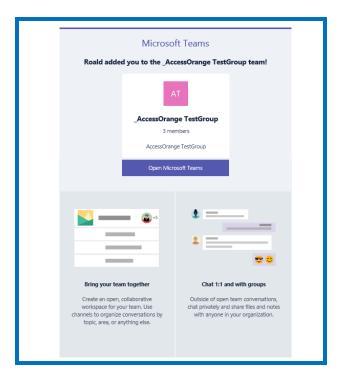


External Users can either be invited directly by an Administrator

Or

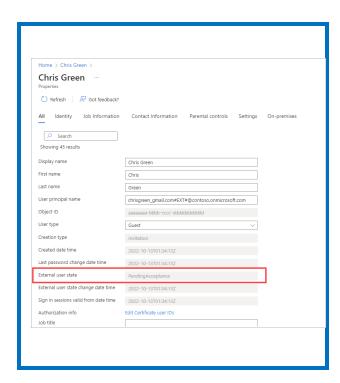
Invite via a Microsoft Teams Guest invitation.

You can Add a Sponsor to the Guest Account





Before & After the External Invite is Accepted

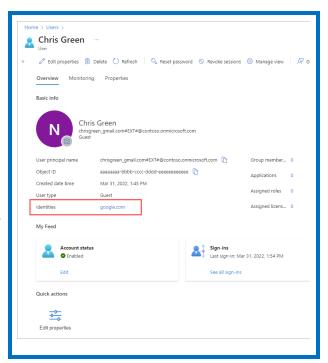




Prior to acceptance, the External Users account is set to pending acceptance status.

Once accepted, The users native account or credentials from the external identity provider, Identities reflects the identity provider, For example google.com

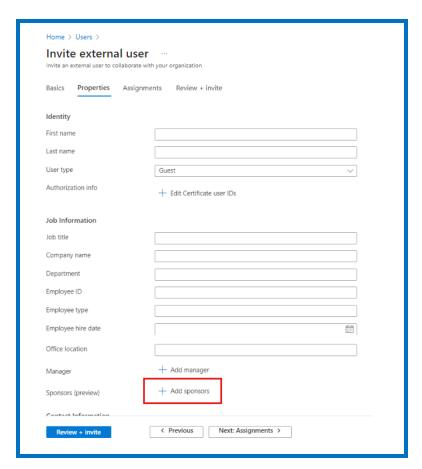
Provide branded (white label) registration and login experiences





Guest Sponsor (Public Preview)

- Sponsors are the person or a group who invited the guest to the organization
- By implementing the sponsor feature, you can identify a responsible individual or group for each guest.
- This allows you to track who invited the guest and to help with accountability.
- If you send an invite to a guest, you'll automatically become the sponsor of that guest, unless you specify another user in the invite process
- You can have a max of five sponsors per single guest user



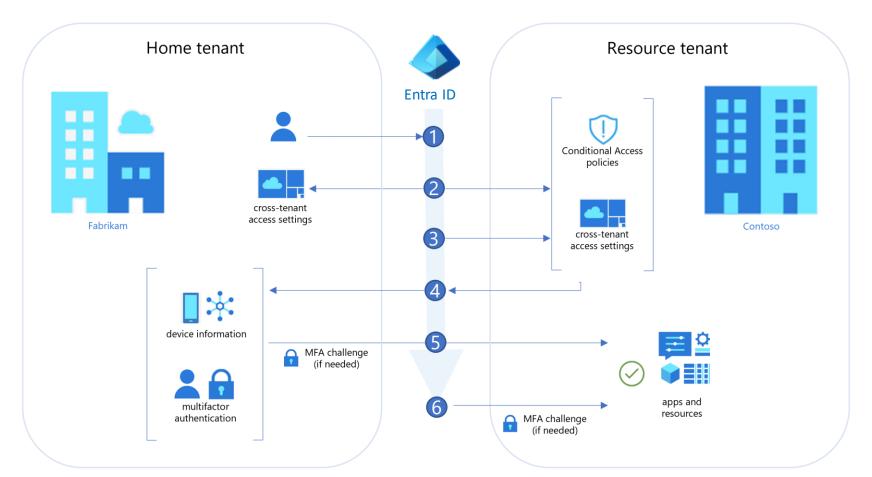


Demo

Understanding External Guest Permissions & Inviting External Users



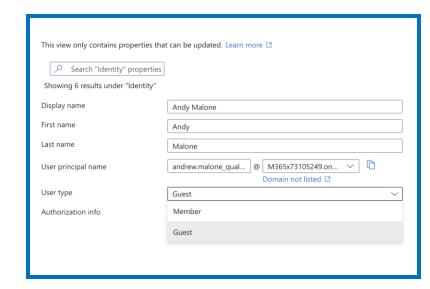
Authentication and Conditional Access Flow for External ID





Converting a Guest User to a Member (UI)

- You can convert UserType from Member to Guest and viceversa by editing the user's profile in the Azure portal or by using PowerShell
- Authentication for B2B members is performed by the external user's home tenant
- Should the user continue to have access to the same resources? Should a mailbox be assigned?
- Guest users have default restricted directory permissions.
- Guests can manage their own profile, change their own password, and retrieve some information about other users, groups, and apps. However, they can't read all directory information.





Converting a Guest User to a Member (PowerShell)

1 - Update the UPN

```
Set-MsolUserPrincipalName -UserPrincipalName

"JaneDoe_contoso.com#EXT#@contoso.onmicrosoft.com" -NewUserPrincipalName

"janedoe@contoso.com"
```

2 - Set the Usage Location

```
Set-MsolUser -UserPrincipalName janedoe@contoso.com -UsageLocation "US"
```

3 -Set a Default Password

```
Set-MsolUserPassword -UserPrincipalName "janedoe@contoso.com" - ForceChangePassword $true
```

4 –Assign a License

```
Set-MsolUserLicense -UserPrincipalName "janedoe@contoso.com" -AddLicenses "contoso:ENTERPRISEPACK"
```



B2B Direct Connect Cross-tenant access settings



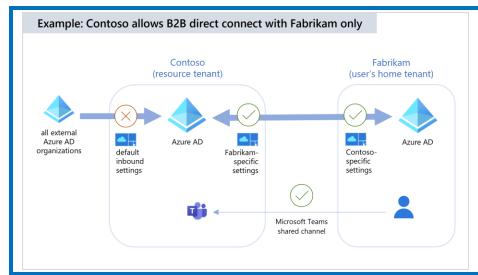
B2B – Direct Connect

User's home tenant Resource tenant mutual trust inbound Entra ID outbound Entra ID cross-tenant cross-tenant access settings access settings Microsoft Teams shared channel



B2B Direct Connect

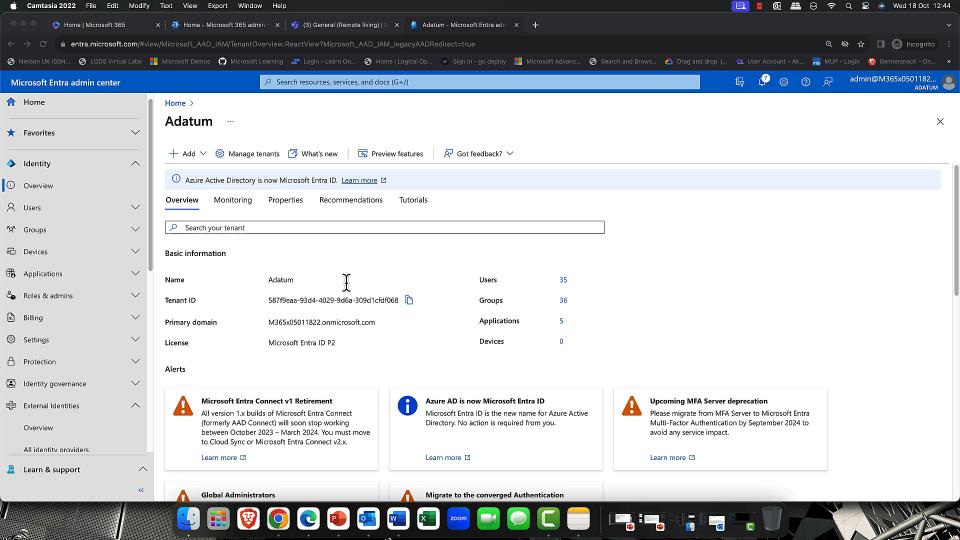
- A <u>mutual</u> trust relationship with another Entra org for seamless collaboration
- This feature currently works with Microsoft Teams shared channels
- Users from both orgs can work together using their home credentials and a shared channel in Teams, without having to be added to each other's organizations as guests
- B2B Direct connect is part of External Identities, so no additional license is required, other than P1





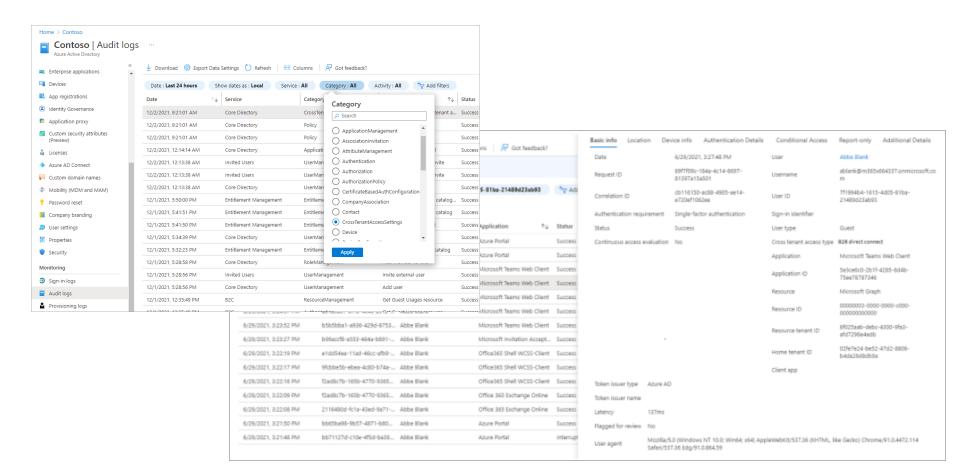
Demo

B2B Direct Connect & Teams Shared Channels





B2B – Direct Connect Sign in Logs

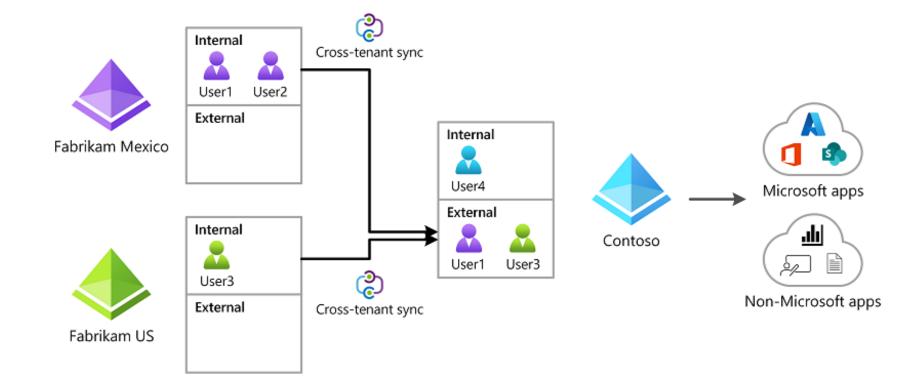




Multi Tenant Collaboration & Cross Tenant Synchronization



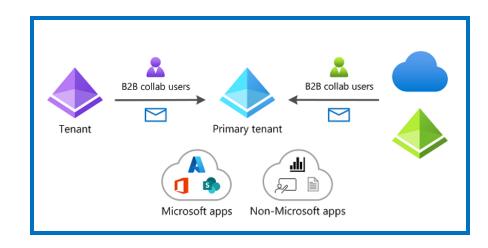
Cross Tenant Synchronization (T2T)





Cross Tenant Synchronization

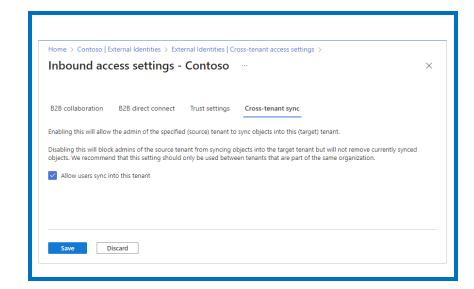
- Automatically create B2B users within your org and provide access to the applications they need, without creating and maintaining custom scripts.
- Improves the user experience and ensures that users can access resources, without receiving an invitation email and having to accept a consent prompt in each tenant.
- Automatically update users and remove them when they leave the organization.





Cross Tenant Synchronization Limitations

- Synchronized users will have the same crosstenant Teams and Microsoft 365 experiences available to any other B2B collaboration user.
- Doesn't synchronize groups, devices, or contacts.
- Cross-tenant synchronization isn't supported within the Microsoft Azure operated by 21Vianet cloud
- Synchronization is only supported between two tenants in the same cloud
- Cross-cloud isn't currently supported





Cross Tenant Synchronization Properties

When you configure cross-tenant sync, you define a <u>trust relationship</u> between a <u>source tenant</u> and a <u>target tenant</u>. Cross-tenant synchronization has the following properties

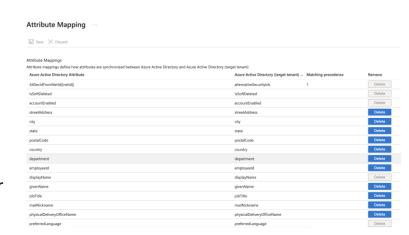
- It's a push process from the source tenant, <u>not</u> a pull process from the target tenant.
- Syncing external users from the source tenant is <u>not</u> supported
- Users in scope for synchronization are configured in the source tenant
- Attribute mapping is configured in the source tenant
- Extension attributes are supported
- Target tenant admins can stop a synchronization at any time



Cross Tenant Synchronization Properties

How does cross-tenant sync manage existing B2B users?

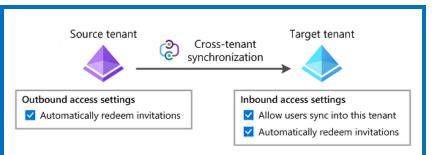
- Cross-tenant sync uses an internal attribute called the alternativeSecurityIdentifier to uniquely match an internal user in the source tenant with an external / B2B user in the target tenant.
- Cross-tenant synchronization updates existing B2B users, ensuring that each user has only one account.
- Cross-tenant synchronization cannot match an internal user in the source tenant with an internal user in the target tenant (both type member and type guest).

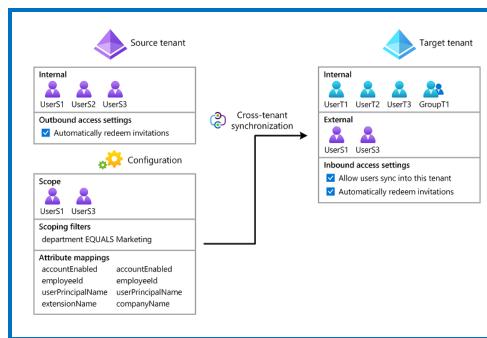




Cross Tenant Synchronization Questions

- Each synced user must have a P1 license in their home/source tenant
- Sync cycle is fixed to every 40mins, Sync duration varies.
- Initial sync cycle is longer than the following incremental cycles.
- Config via UI or PowerShell

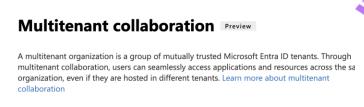




https://learn.microsoft.com/en-us/azure/active-directory/multi-tenant-organizations/cross-tenant-synchronization-configure-graph?tabs=ms-powershell



Microsoft 365 Multi Tenant Collaboration (Preview)









Contoso

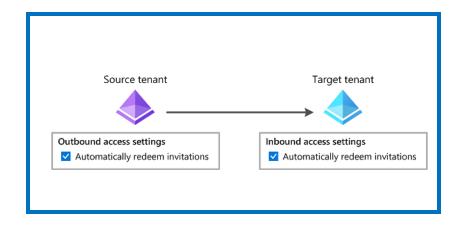
Share users () Refresh

Associated tenants	Membership status	Outbound sync status	Role
Contoso (your tenant)	Active	O Not applicable	Member
Adatum	Active	⊕ Enabled	Owner



Microsoft 365 Multi Tenant Collaboration

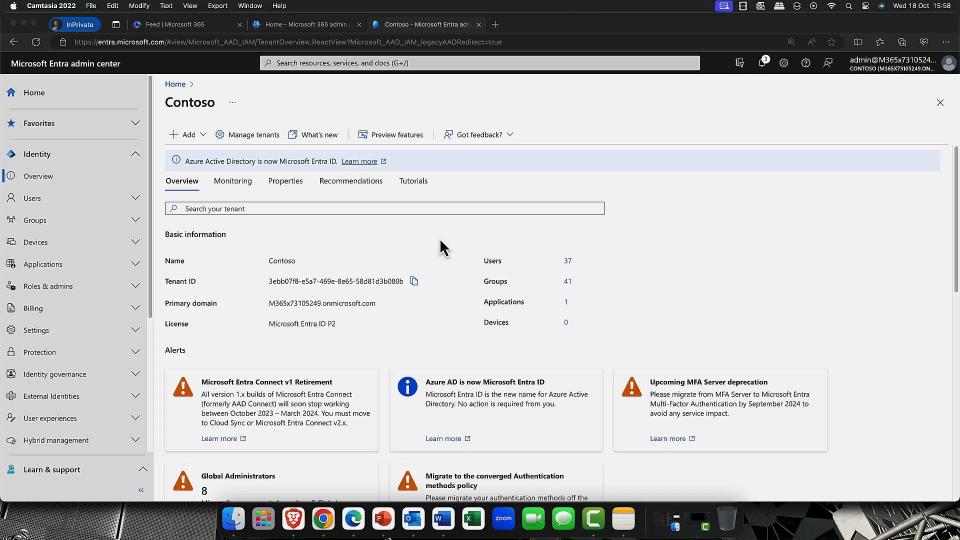
- You can set up a multitenant org in Microsoft 365 to facilitate collaboration and resource access between tenants
- Provides a more seamless collaboration experience between the users in different tenants when searching, using Teams and, and collaborating on files
- Tenant that creates the multitenant org is known as the <u>owner</u> while others that join are known as members
- During Setup Configures Directory Sync in Entra ID





Demo

Multi-Tenant Collaboration & Cross Tenant Synchronization





Multi Tenant Collaboration Current Limitations

- Max of 5 tenants in the multitenant organization is supported.
- Max of 100,000 users per tenant is supported.* (MIM Option)
- Teams on the web, macOS, Teams Rooms, and VDI/AVD Aren't supported.
- Ability to grant or revoke permission to receive notifications from other tenants and to switch between tenants isn't supported on mobile.
- People in your organization links may not work for users from another tenant if their account had originally been a guest and they had previously accessed SharePoint resources.
- It might take up to 7 days for a user to appear in search once Synced
- Support for a guest UserType of member in Power BI is currently in preview



Session Conclusions

- Identity Types B2B Vs T2T Vs B2C
- Understand Members Vs Users
- External Collaboration Settings explained
- Cross Tenant Collaboration
- Cross Tenant Synchronization (T2T)
- Microsoft 365 Multi Tennant Collaboration
- Demos Demos!
- Conclusions



