



External
collaboration with
Azure B2B

About Me

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Agenda

What is Azure B2B?

Why Azure B2B?

Key Benefits and Capabilities

Demos!

Azure B2B & Office 365

More Demos!

What is Azure Active Directory B2B?

Azure Active Directory Business-to-Business (B2B) enables any organization to work safely and securely with users from any other organization.

Why use Azure Active Directory B2B?

-Gives Access to:

- Azure & Office 365 resources
- Custom Applications
- Third Party Applications
- Documents & data

Key Benefits

- **Works with any user**

- Azure AD not required
- Users can use their own identities
- No external directories

- **Simple & Secure**

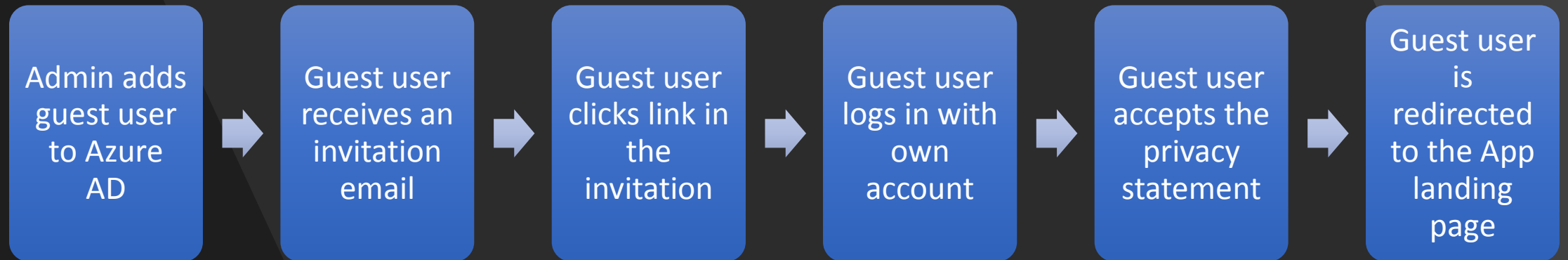
- Easy for admins and users
- Access to any app and data
- Enterprise-grade security for apps and data
- No external account management

Capabilities

- Invite guest users by email
- Conditional Access Policies
- Sharing Policies
- Azure AD Identity Protection

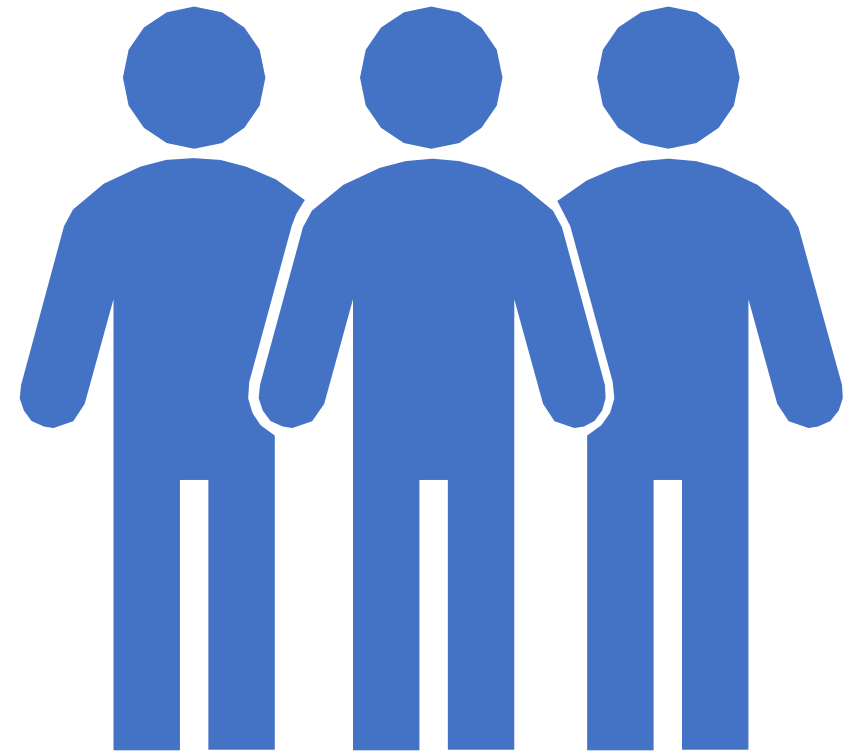
- Auditing and Reporting
- Customize onboarding using PowerShell & Invitation APIs
- Licensing: 1:5 ratio

Flow of Adding Guest Users



Demos

Inviting guest users



Demo Summary

- Add Guest user with a personal Microsoft account to Azure AD
- Add Guest user to a group
- Add group to an application

Invitation Email

- Company branding / information
- Subject
- Personal Message
- Redemption URL



The screenshot shows an email interface with a grey header bar containing the Azure Active Directory logo and the text "Azure Active Directory". Below the header, the main content area is white and contains the following text: "You've been invited to access applications in the PuttySoft Inc organization" (with "PuttySoft Inc organization" in blue), "by" (in grey), a green square profile picture with "SZ" in white, and "Sjoukje Zaal" (in grey). A white rectangular box contains the message: "Hello Sjoukje," followed by "We'd like to welcome you to the PuttySoft organization as a guest user, If you accept the invitation, please click Get Started and follow the instructions." Below this is the signature: "Sincerely, Sjoukje Zaal, PuttySoft Administrator". A green button with the text "Get Started" is centered below the signature. Underneath the button, the text "Return to the above link at any time for access." is displayed with a horizontal line underneath. At the bottom of the email, a small grey box contains the disclaimer: "This email has been sent on behalf of the PuttySoft Inc organization. Please act on this email only if you trust the PuttySoft Inc organization. This email may have advertising content. You can unsubscribe from future invitations from".

Azure Active Directory

You've been invited to access applications in the
PuttySoft Inc organization

by

 SZ

Sjoukje Zaal

Hello Sjoukje,

We'd like to welcome you to the PuttySoft organization as a guest user, If you accept the invitation, please click Get Started and follow the instructions.

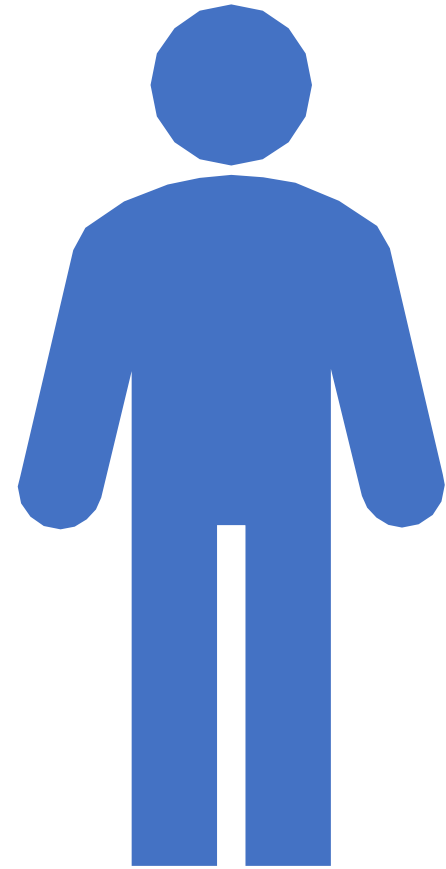
Sincerely,
Sjoukje Zaal, PuttySoft Administrator

[Get Started](#)

Return to the above link at any time for access.

This email has been sent on behalf of the PuttySoft Inc organization. Please act on this email only if you trust the PuttySoft Inc organization. This email may have advertising content. You can [unsubscribe](#) from future invitations from

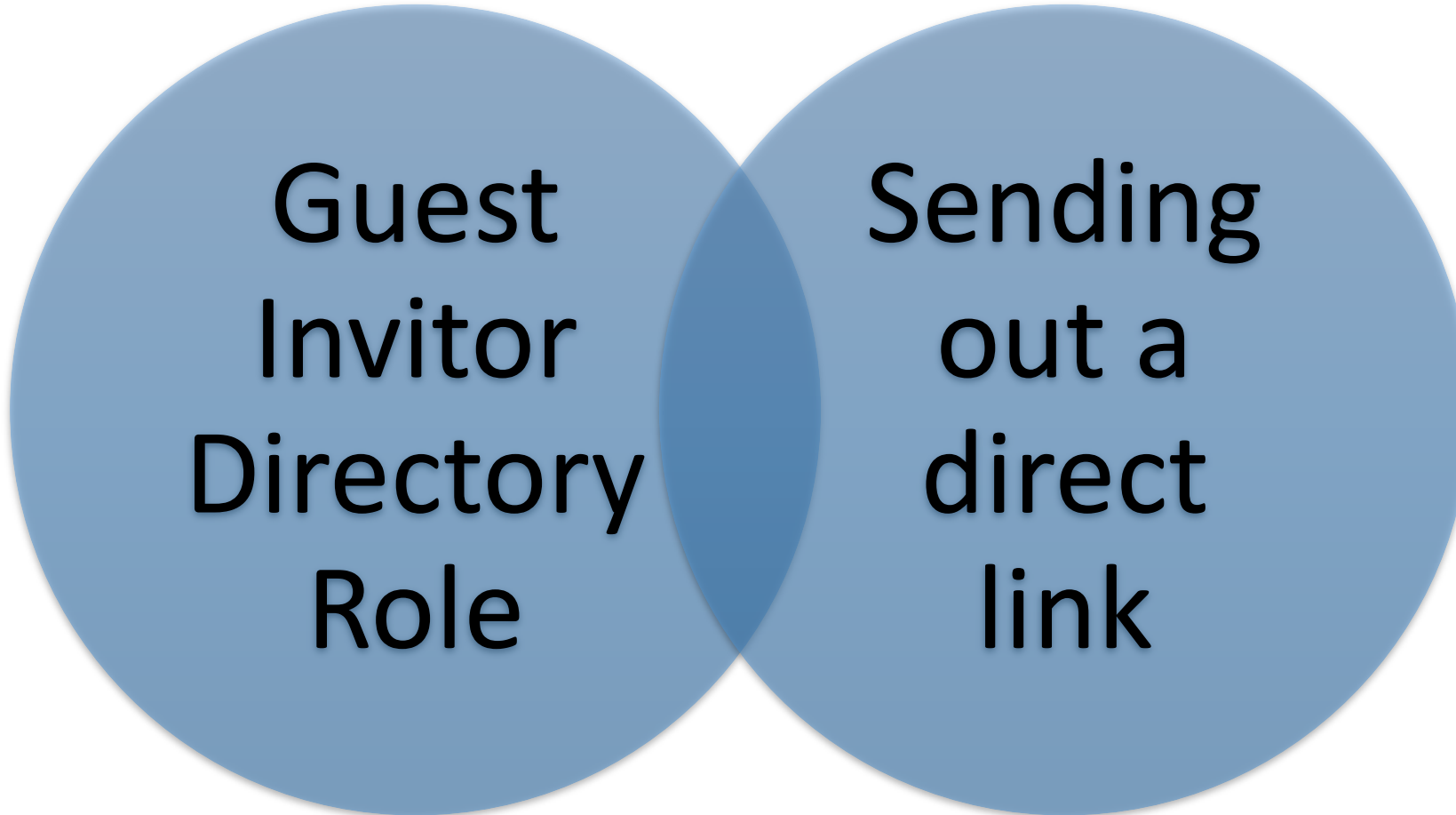
Invitation Email &
Redemption



Demo Summary

- User receives invitation
- User accepts the invitation
- User logs in using own credentials
- User accepts the privacy terms
- User can access the applications

Add Guest Users Without Invitation



B2B
collaboration
invitation APIs

PowerShell for
bulk
invitations

APIs &
PowerShell

Invitation Customization

- With PowerShell / API Invitations you can:
 - Customize email messages
 - Add a display name for the user
 - Add CCs to the messages
 - Suppress invitation email messages altogether
 - Set the invitation redirect URL

Demo

Sending invitations using PowerShell





Azure Active Directory PowerShell for Graph - Public Preview Release 2.0.1.18

Azure Active Directory V2 Preview Module.

This is a Public Preview release of Azure Active Directory V2 PowerShell Module.

For detailed information on how to install and run this module from the PowerShell Gallery including prerequisites, please refer to <https://msdn.microsoft.com/powershell/gallery/readme>

221,255

Downloads

29,373

Downloads of 2.0.1.18

2018-06-28

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Inspect

```
PS> Save-Module -Name AzureADPreview -Path <path>
```

Install

```
PS> Install-Module -Name AzureADPreview
```

Deploy



Deploy to Azure Automation

Demo Summary

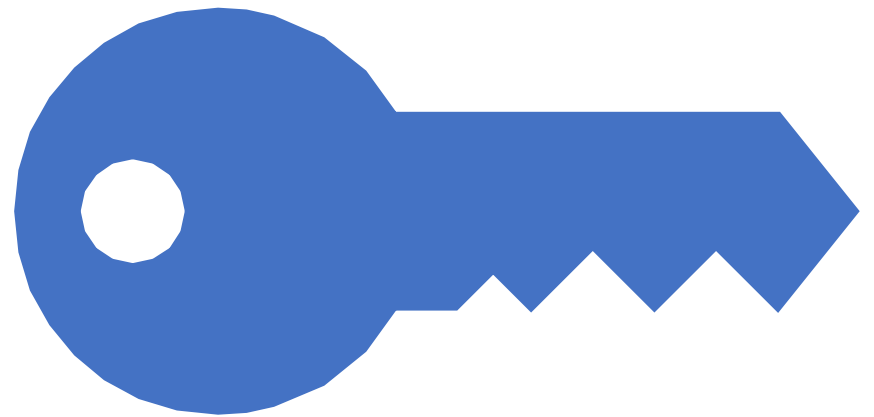
- Download the latest Azure Active Directory PowerShell for Graph
 - <https://www.powershellgallery.com/packages/AzureADPreview/2.0.1.18>
- Create a CSV file with email addresses
- Create accounts with PowerShell

Conditional Access

- Premium Azure AD
- At Tenant, app or user level
- Same policies as internal users
- Easy to set policies for guest users (Preview)

Demo

Conditional Access - MFA



Demo Summary

- Create a new Conditional Access Policy
- Select “All Guest Users”
- Enable MFA for guest users
- Logged in as a guest user
- Used MFA to access the application

Microsoft provides sample code for a Self-Service Portal on GitHub.

The screenshot shows a web page titled "WoodGrove B2B Portal". At the top, there is a navigation bar with "WoodGrove Online", "Sign Up", "About", "Contact", and "Admin Sign in". The main content area contains a registration form with the following fields:

- Email Address:** A text input field with a placeholder "Email" and a small icon on the right.
- First Name:** A text input field with a placeholder "First Name".
- Last Name:** A text input field with a placeholder "Last Name".
- Request Comment:** A text input field with a placeholder "Add optional comment...".

Below the form is a blue button labeled "Request Access". To the right of the form is a light gray informational box containing the following text:

This site is used to allow prospective guests of WoodGrove Online to request access for SaaS application collaboration.

To continue, fill out the form on the left. If pre-authorization is required, you will have to register from a domain that's been pre-approved. If it's not required, you can request access and an administrator will review your request.

Other configuration settings, like requiring agreement with Terms of Service, or requiring the user be pre-authenticated by logging into their home tenant, will display additional instructions here automatically as well.

Azure B2B Self Service Portal

- MVC sample application
- Uses the Graph API
- Approve / deny guest users
- Custom email templates
- Custom redirect URL

Demo

Self Service Portal



PuttySoft Inc.

Email Address

First Name

Last Name

Request Comment

[Request Access](#)

Hi All, this portal is for external users to get access to all corp services of Puttysoft Inc.

Pending Guest Requests

 Save

 Refresh

Approve all ▾



RequestID

Email Address

Request Comment

Status

Notes

Approve

Deny

Pending

3a7ffc2b-10b5-4dc9-b07b-d3fb9e5438ea

s.t.zaal@gmail.com

Add user

Invitation Template - Edit

[Save](#) [Delete](#) [Cancel](#) [Help](#)

Send Mode: [SMTP](#) [Azure](#)

Template Name

Default

Template Content

[Edit](#)

[Preview](#)

Hey there! Check this out. I created an invitation through the Self Service Portal!



Edit Site Configuration

Site Name ●

PuttySoft Inc.

Inviting Organization ●

PuttySoft Inc.

Welcome Message ●

Hi All, this portal is for external users to get access to all corp services of Puttysoft Inc.

TOS Document ●

Require TOS Agreement

Invitation Template ●

Default ▾

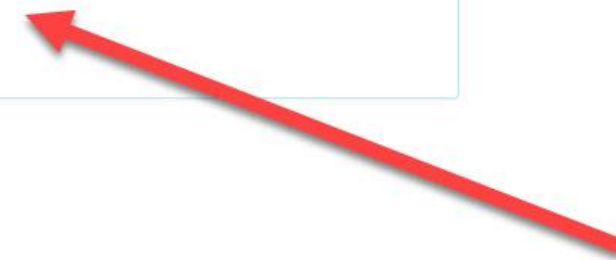
Verification Settings - Site Configuration

Inviter Email Address ●

Return URL After Profile Edit ●

<https://myapps.microsoft.com/puttysoft.net>

Require Sign-In ●



Demo Summary

- Add a guest user using Self Service Portal
- Approve or deny guest user
- Create custom email templates
- Set a different redirect URL

External Sharing in Office 365 VS Azure B2B

- Office 365 uses Azure B2B
 - Except for SharePoint Online & OneDrive
- Different Invitations
- Different Licensing



Enable Azure
B2B in
SP Online &
OneDrive

Office 365 | Admin

SharePoint admin center

site collections
infopath
user profiles
bcs
term store
records management
search
secure store
apps
sharing
settings
configure hybrid
access control
data migration

We're working on a new SharePoint admin center. [Try the preview](#)

Sharing outside your organization
Control how users share content with people outside your organization.

- Don't allow sharing outside your organization
- Allow sharing only with the external users that already exist in your organization's directory
- Allow users to invite and share with authenticated external users
- Allow sharing to authenticated external users and using anonymous access links

Who can share outside your organization

- Let only users in selected security groups share with authenticated external users

Default link type
Choose the type of link that is created by default when users get links. [Learn more.](#)

- Direct - specific people
- Internal - only people in your organization
- Anonymous Access - anyone with the link

Use shorter links when sharing files and folders

Default link permission
Choose the default permission that is selected when users share. This applies to anonymous access, internal and direct links.

- View
- Edit

Additional settings

- Limit external sharing using domains (applies to all future sharing invitations). Separate multiple domains with spaces. [Learn more.](#)
- Prevent external users from sharing files, folders, and sites that they don't own
- External users must accept sharing invitations using the same account that the invitations were sent to
- Require recipients to continually prove account ownership when they access shared items

Notifications
E-mail OneDrive for Business owners when

- Other users invite additional external users to shared files
- External users accept invitations to access files
- An anonymous access link is created or changed

Feedback

Differences Invitation Redemption in Azure B2B & Office 365



B2B users can be selected **before** accepting the invite

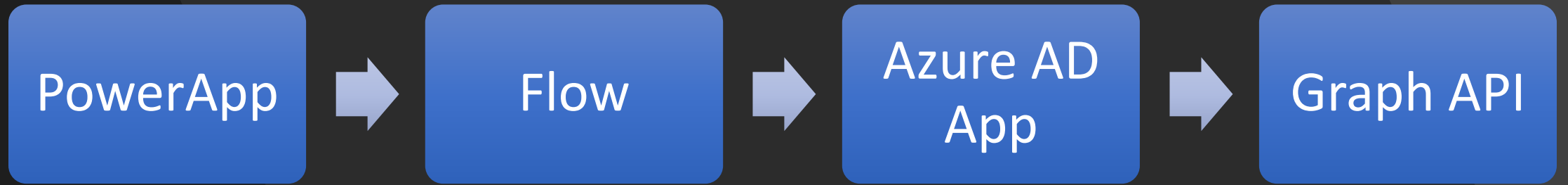
Office 365 users can be selected **after** accepting the invite

Demo

Adding guest users
using PowerApps,
Flow and the Graph
API in SharePoint
Online



Solution Components



Demo Summary

- Create an Azure AD Application
- Setting the Application Permissions
- Create a Flow
- Call the Azure AD App from Flow
- Use the MS Graph to add guest users
- Create a PowerApp for sign-up form
- Use the PowerApp in SharePoint Online

- Detailed blog post:
<https://www.sjoukjezaal.com/azure-b2b-sharepoint-online-solution-using-powerapps-flow-and-the-graph-api/>

Current Limitations

- Possible double multi-factor authentication
- Azure AD Directory Limits
- Replication Latency



Questions?