



# Microsoft 365 Groups: Overview and Architecture



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# Agenda

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Introduction to Microsoft 365 Groups

Groups Architecture deep-dive

Group Creation/Provisioning

Group Lifecycle/Deletion

Member/Roster management

Administration/Policies

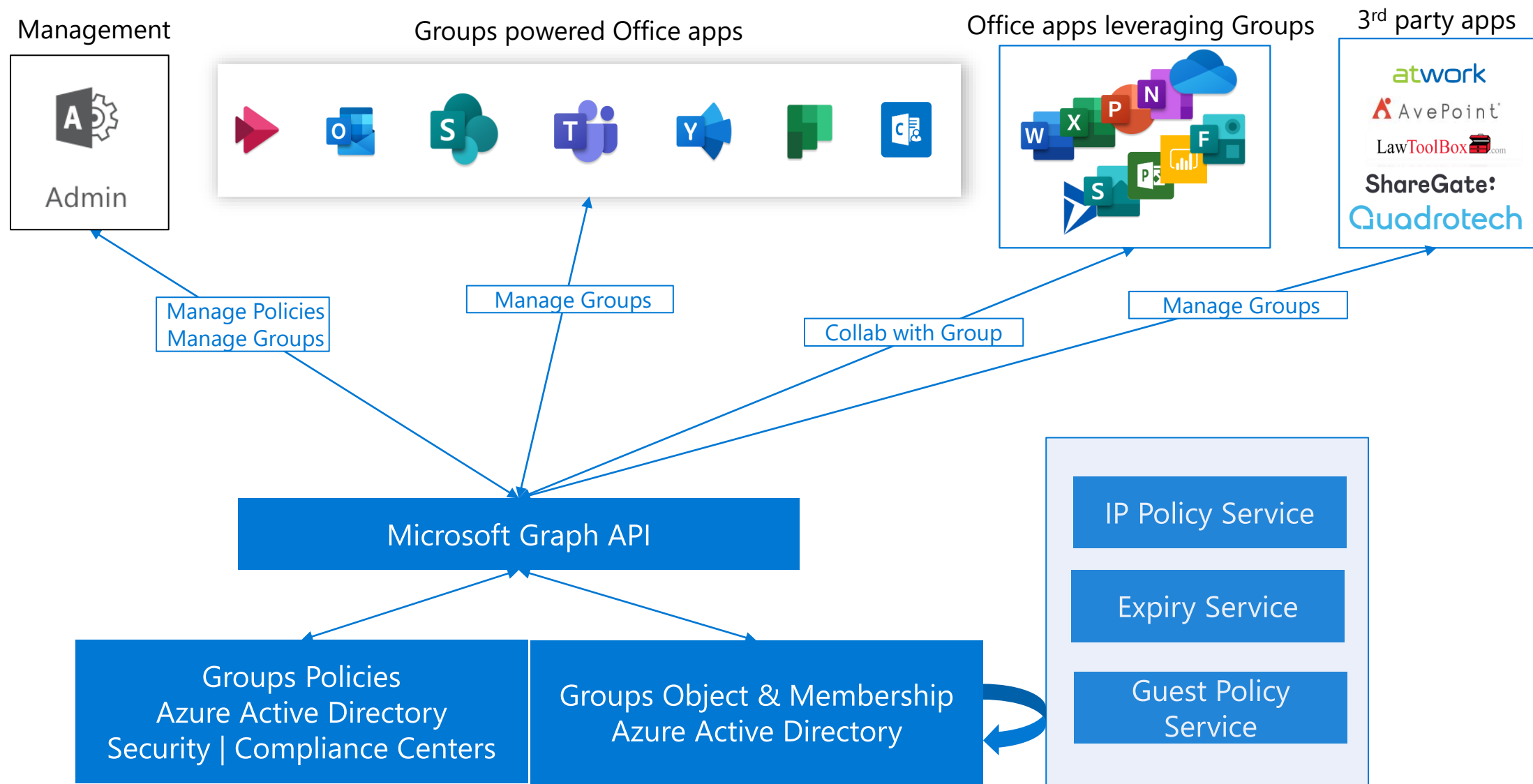
Closing

# Microsoft 365 Groups Overview

# Powering collaboration across Microsoft 365

















# Microsoft 365 Groups - Architecture



# Microsoft 365 Groups Architecture

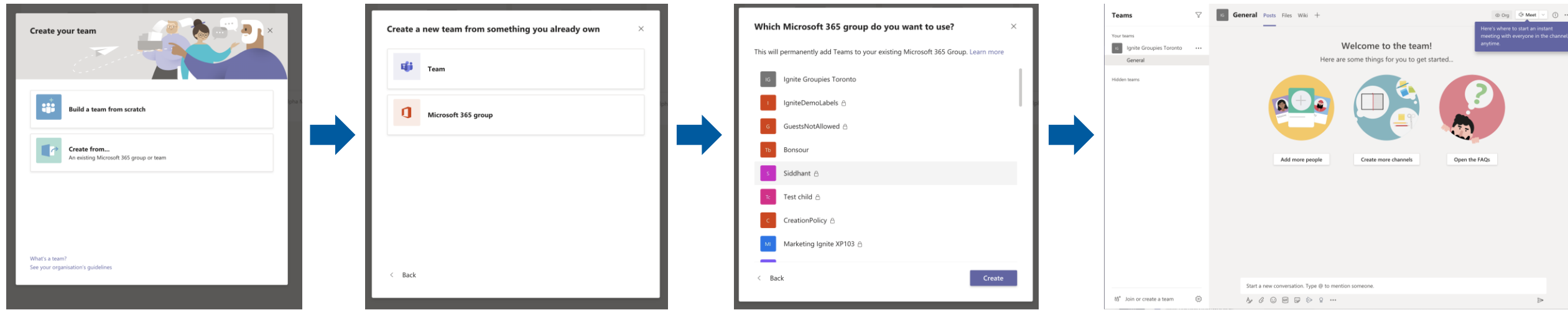
## Group Creation/Provisioning

# Groups Visibility

<div>Create</div> <div></div>	<div></div> <div>Outlook</div> <div>Groups created in Outlook are not visible in Teams</div> <div>Default visibility for Group via SharePoint, Planner, and Stream</div> <div>Can be Team-ified</div>	<div></div> <div>Teams</div> <div>Groups created in Teams are not visible in Outlook</div> <div>Can be exposed in Outlook using PowerShell</div>	<div></div> <div>Yammer</div> <div>Groups created in Yammer are not visible in Outlook</div> <div>Cannot be Team-ified as they are Yammer-ified ;-)</div>
<div>View</div> <div></div>	<div></div> <div>SharePointStreamPlanner</div>	<div></div> <div>SharePointStreamPlanner</div>	<div></div> <div>SharePointStreamPlanner</div>

\*SharePoint site collections – can be group-ified and are visible in Outlook by default

# Enable Outlook Groups in Teams





# Enable Teams in Outlook clients

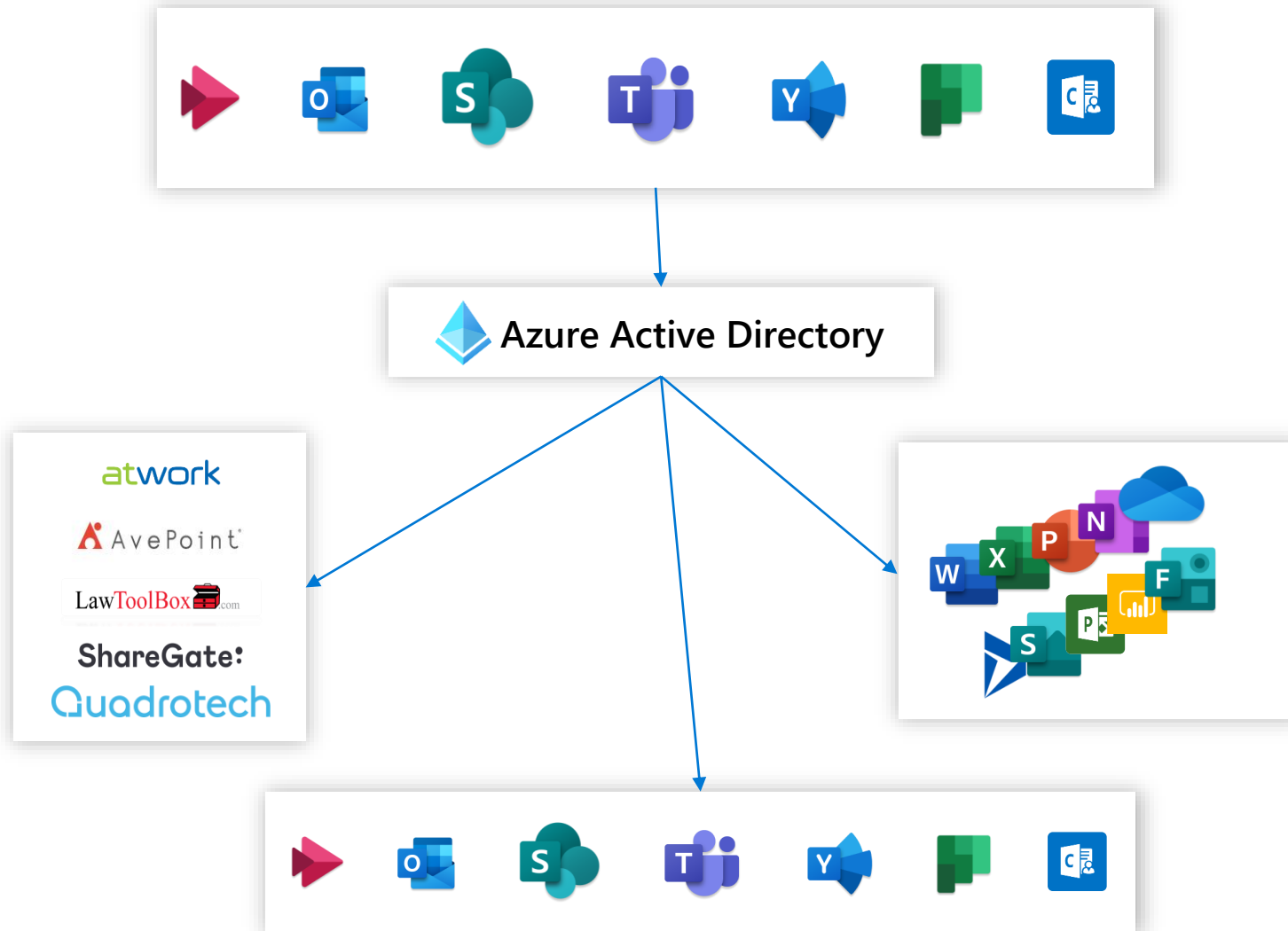
## **Set-UnifiedGroup -Identity "New Team" -HiddenFromAddressListsEnabled \$false**

The HiddenFromAddressListsEnabled parameter specifies whether the Microsoft 365 Group appears in the global address list (GAL) and other address lists in your organization.

## **Set-UnifiedGroup -Identity "New Team" -HiddenFromExchangeClientsEnabled:\$false**

The HiddenFromExchangeClientsEnabled switch specifies whether the Microsoft 365 Group is hidden from Outlook clients connected to Microsoft 365.

# Group flow



## Components

Primary datastore is Azure Active Directory

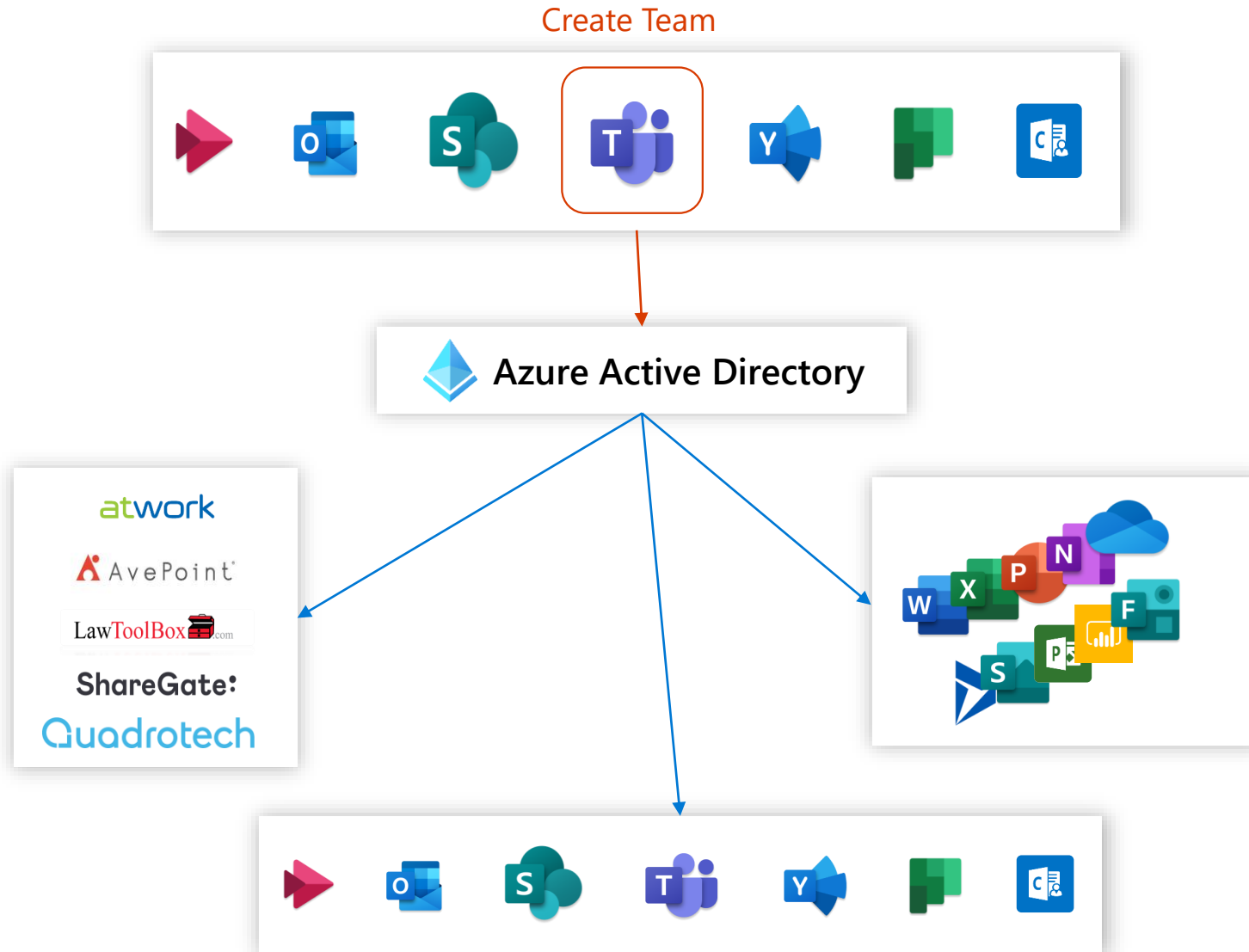
## Cross-app Notification

- All apps are notified of changes to Group config or membership

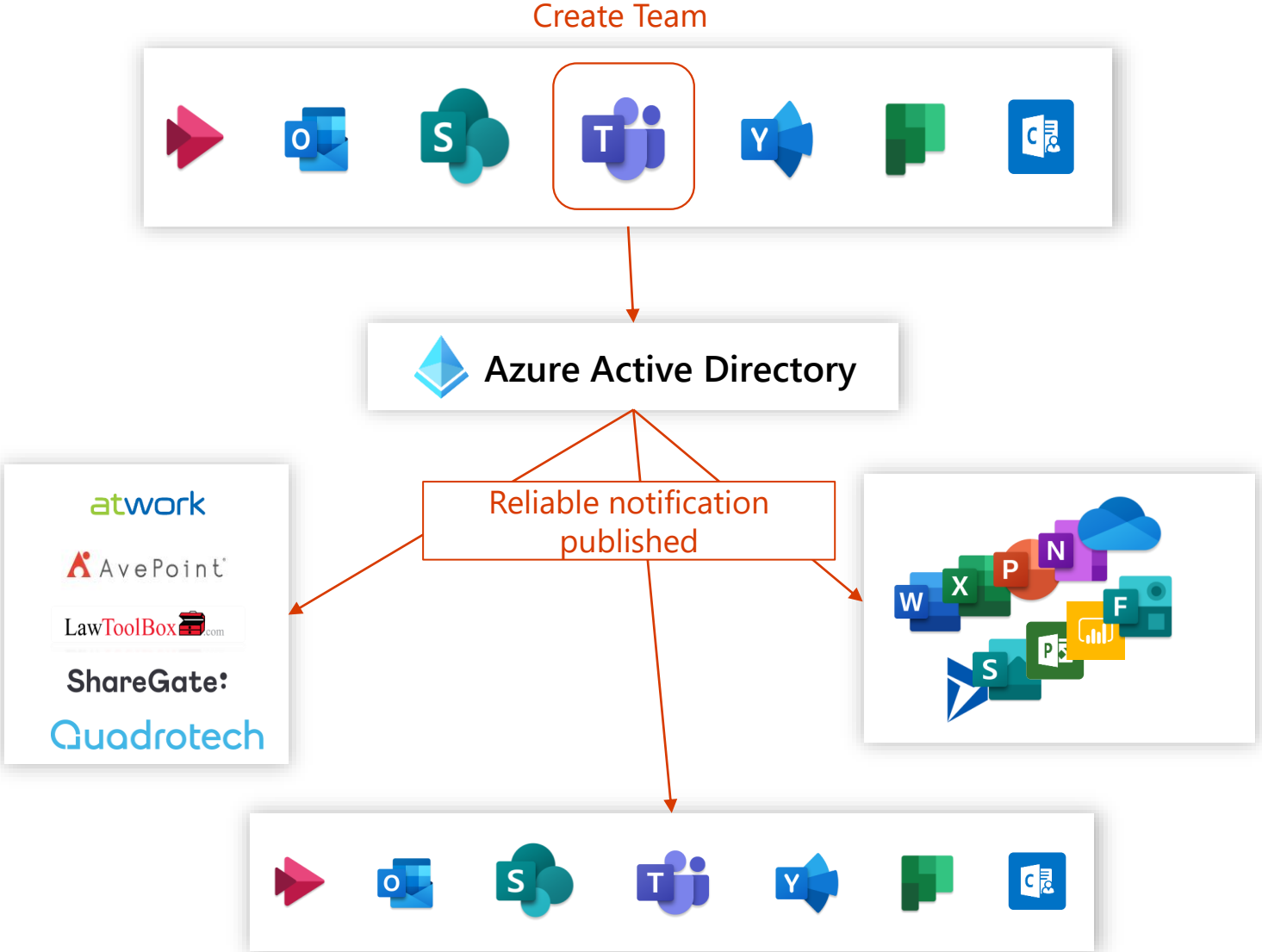
## Resources

- Resource provisioning and behavior options on Group object

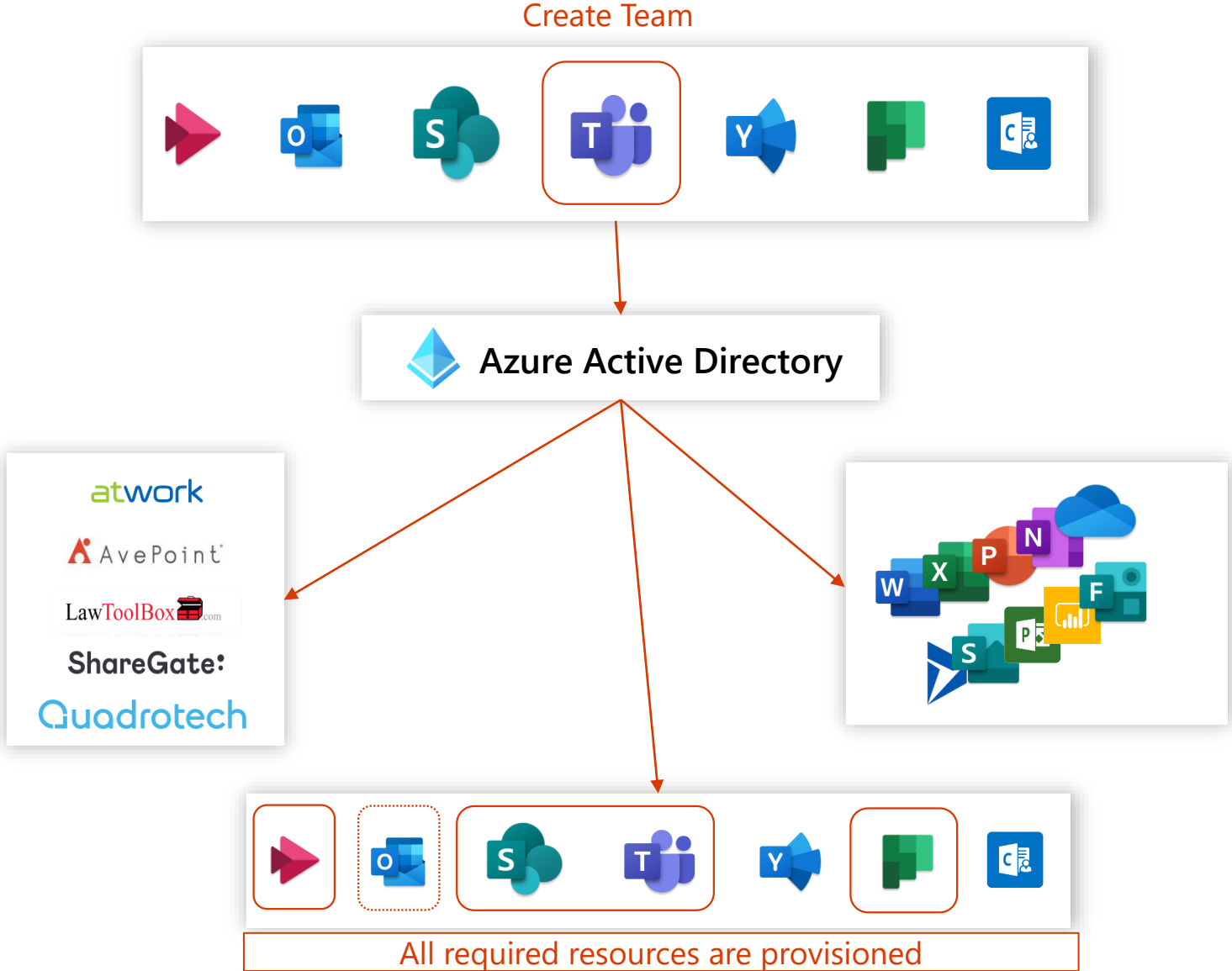
# Group flow



# Group flow



# Group flow



# Group – Create Policies

The image shows two screenshots from Microsoft Office 365. The top screenshot is the Outlook 'New group' dialog. It has a 'Name' field with 'My new Test Group', an 'Email address' field with 'mynewtestgroup@M365x554190.onmicrosoft.com', and a 'Description' field. Below these is an 'Edit settings' section with a 'Sensitivity' dropdown set to 'General' and 'Public group' selected. The bottom screenshot is the SharePoint 'Get a team site connected to Office 365 Groups' form. It has a 'Site name' field with 'My New Team Site', a 'Group email address' field with 'MyNewTeamSite', and a 'Site address' field with 'https://m365x554190.sharepoint.com/sites/MyNewTeamSite'. Below these is a 'Sensitivity' dropdown set to 'General' and a 'Privacy settings' dropdown set to 'Public'. Both forms have red boxes highlighting the email address and sensitivity settings fields.

**Outlook New group dialog:**

- Name: My new Test Group
- Email address: mynewtestgroup@M365x554190.onmicrosoft.com
- Description: Tell people the purpose of your group
- Edit settings:
  - Sensitivity: General
  - Public group
  - No guests

**SharePoint Get a team site connected to Office 365 Groups form:**

- Site name: My New Team Site
- Group email address: MyNewTeamSite
- Site address: https://m365x554190.sharepoint.com/sites/MyNewTeamSite
- Site description: Tell people the purpose of this site
- Sensitivity: General
- Privacy settings: Public
- Select a language: English

## Components

### Check creation policy

- Can this user create a Group

### Naming policy

- Prefix, suffix and blocked words
- Unique email and Site URL

## IP Labels

- List of allowed 'sensitivity labels' for this user and their privacy/external configs from SCC policy store

# Group – Create – Data Residency

## Components

### Preferred Data Location (PDL)

- Defined at the Group level
- Inherits from creator's PDL



```
PS C:\> New-UnifiedGroup -DisplayName MultiGeoEUR -Alias "MultiGeoEUR" -AccessType Public -MailboxRegion EUR
```

Name	DisplayName	GroupType	PrimarySmtpAddress
MultiGeoEUR_675508cb-5c1b-4523-bc26-2ddb740b04d3	MultiGeoEUR	Universal	MultiGeoEUR@ContosoEnterprise.onmicrosoft.com

```
PS C:\> Set-MsolUser -UserPrincipalName amelia.sparks@contoso.com -PreferredDataLocation CAN
PS C:\> (Get-MsolUser -UserPrincipalName amelia.sparks@contoso.onmicrosoft.com).PreferredDataLocation
CAN
PS C:\>
```

# Group – Create – Data Residency

## Components

### Cross-geo move

- Exchange mailbox is moved automatically
- SPO and OneDrive are moved manually by admins using cmdlets
- Not supported yet for other apps



```
PS C:\WINDOWS\system32> Start-SPOSiteContentMove -DestinationDataLocation EUR
-SourceSiteUrl https://contosohealthcare.sharepoint.com/sites/Turbines

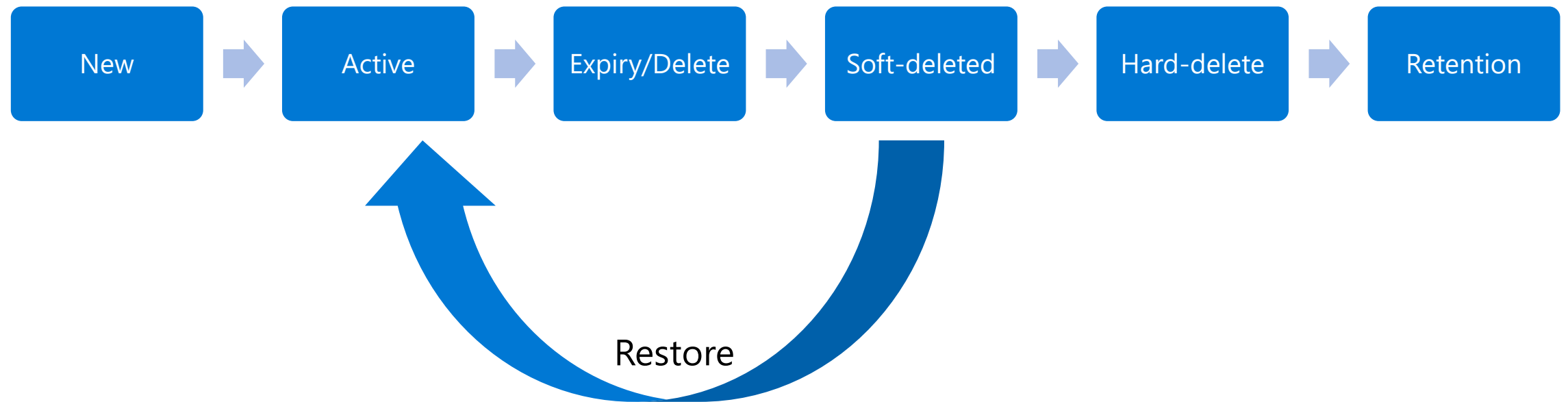
SourceSiteUrl      : https://contosohealthcare.sharepoint.com/sites/Turbines
TargetSiteUrl      : https://contosohealthcareeur.sharepoint.com/sites/Turbines
MoveJobId          : 1f85979e-84d7-707d-2c37-f455d5b6cc94
SourceDataLocation : NAM
DestinationDataLocation : EUR
TimeStamp          : 1/1/0001 00:00:00
MoveState          : InProgress(1/4)
```



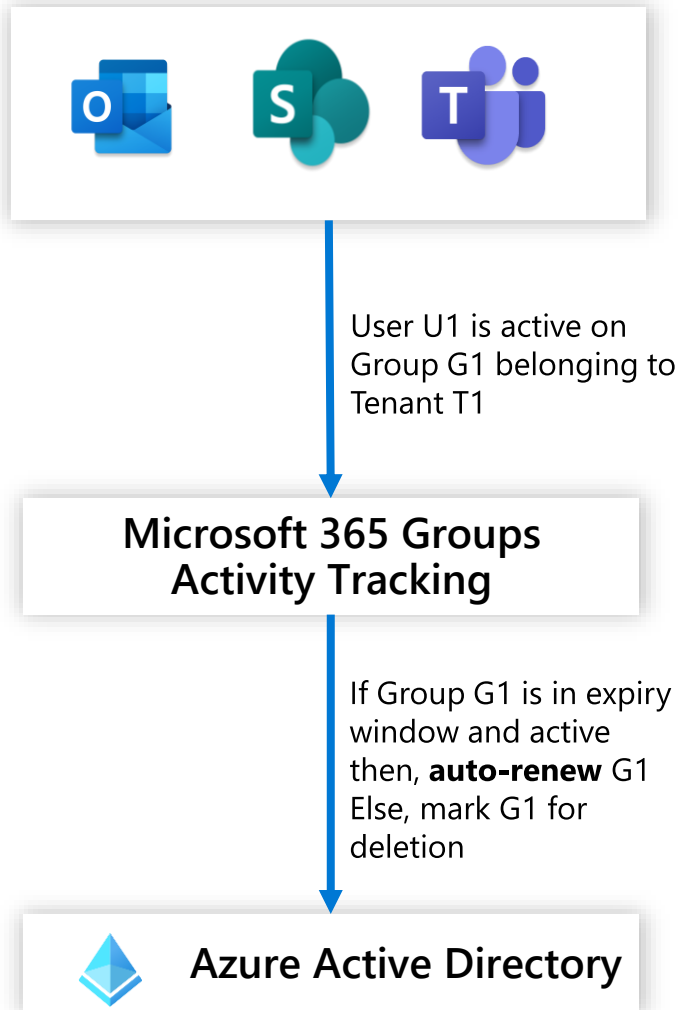
# Microsoft 365 Groups Architecture

## Group Lifecycle/Deletion

# Group Lifecycle and Deletion flow



# Group Activity tracking and Auto-Renewal



## Components

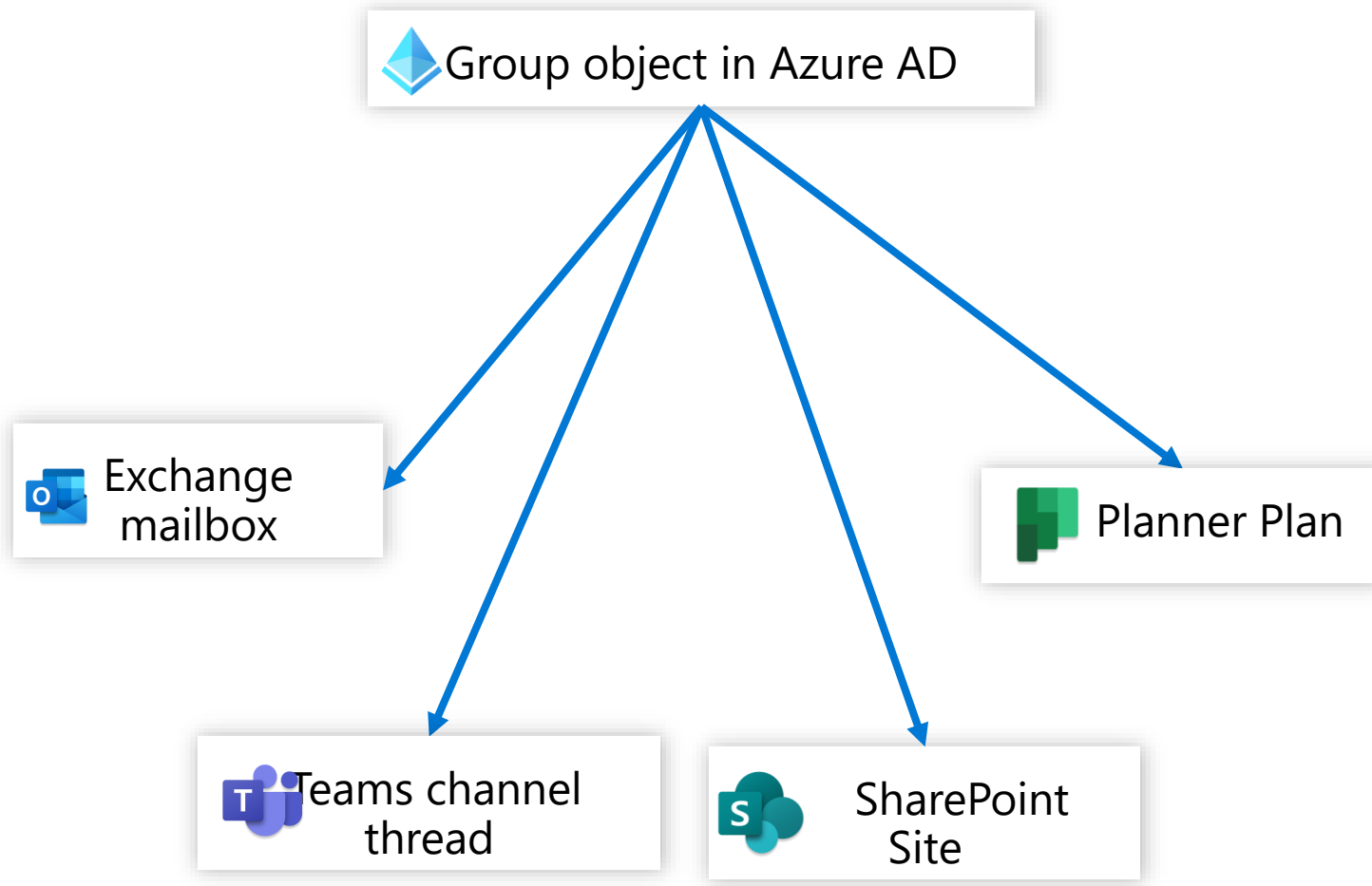
### Activity Tracking service

- Tenant wide activity tracking at the Groups level
  - Send, reply, like mail
  - View/Edit files
  - Read, write chats
- Only active on Teams, SharePoint or Outlook tracked for auto-renewal
- Only intention activities are covered by with a bias for retaining group vs deleting it

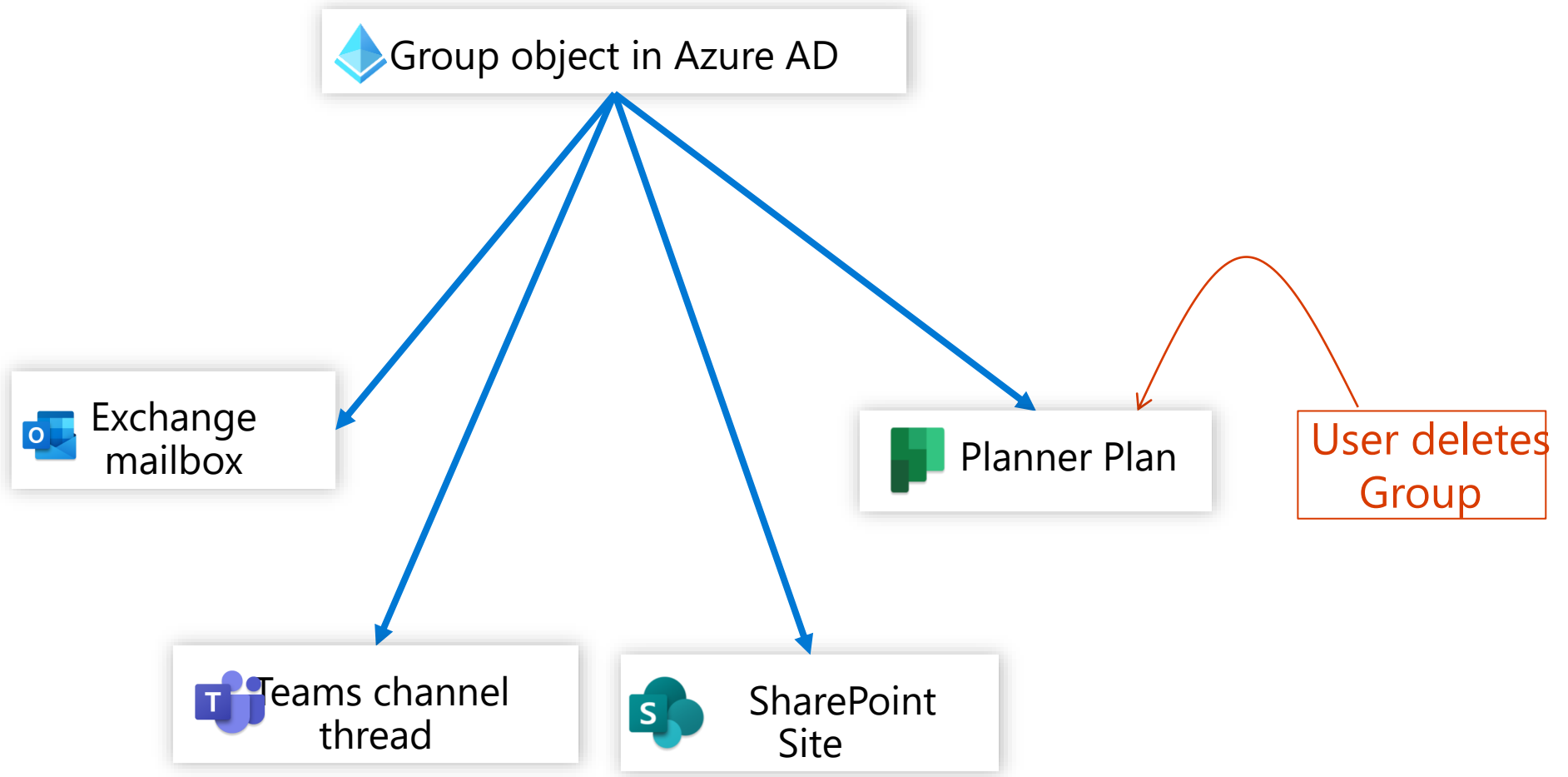
### Expiry service

- Policy based expiry flow with reminder emails for inactive Groups
- Portal for owners to manually renew

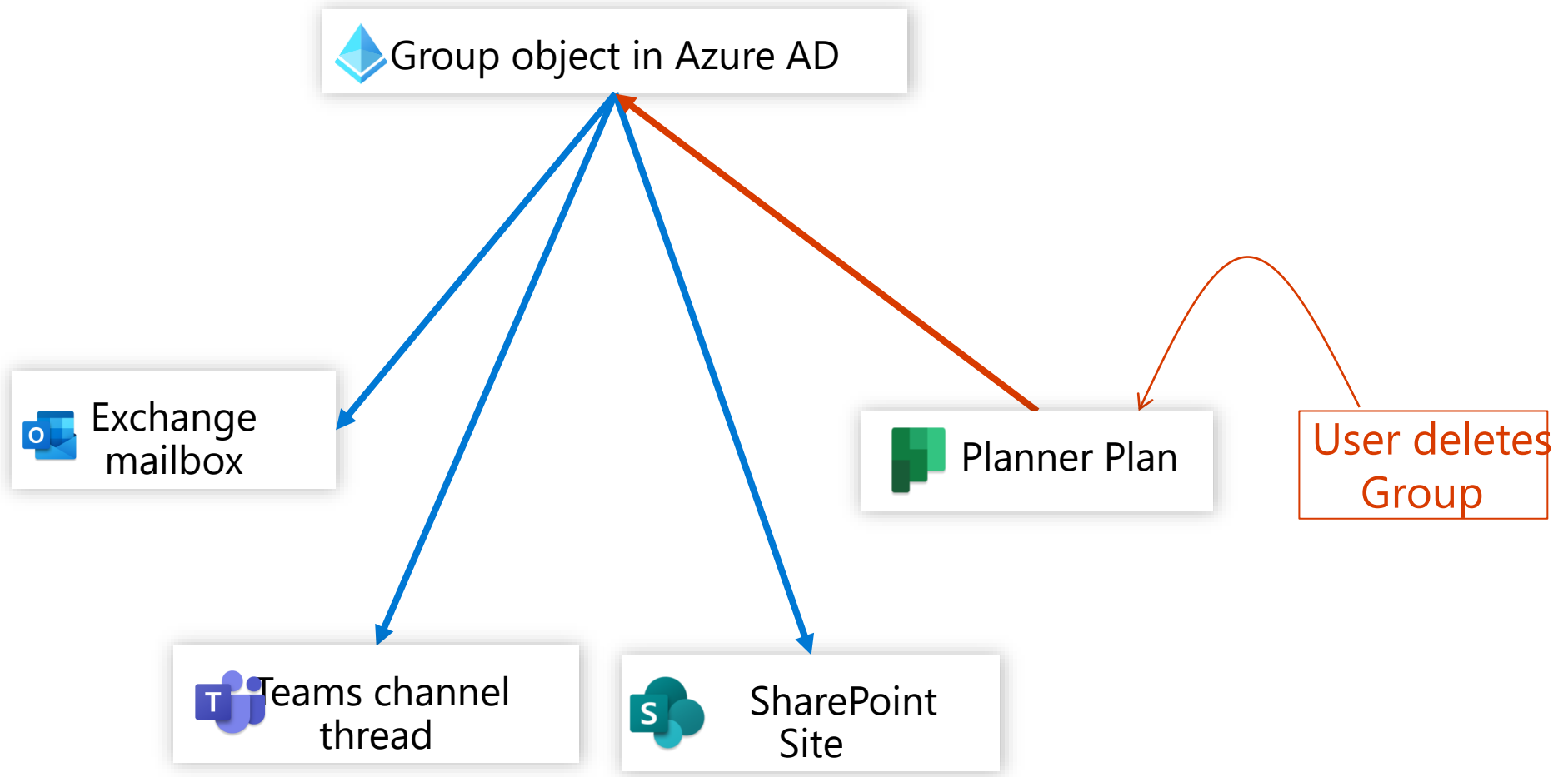
# Group Deletion flow



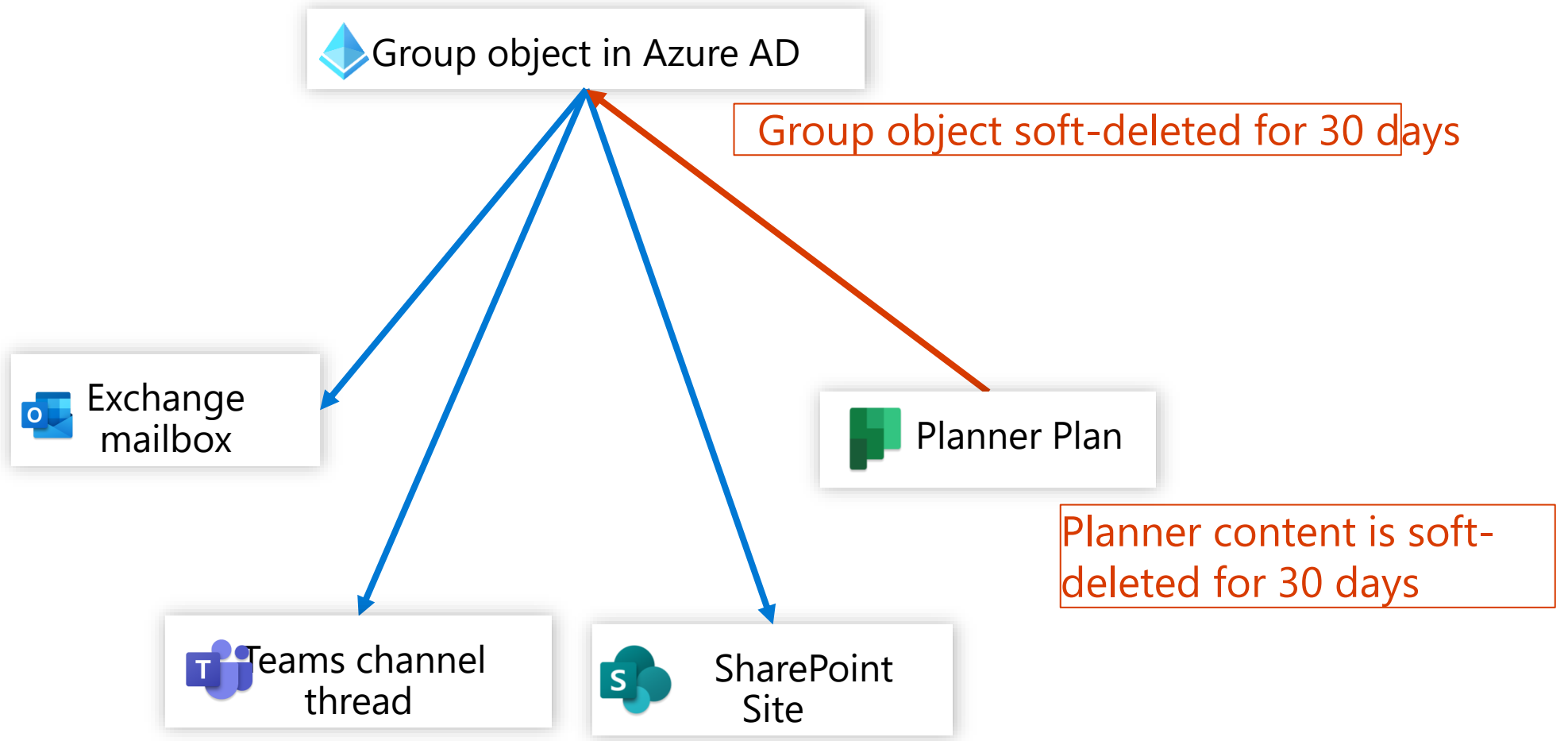
# Group Deletion flow



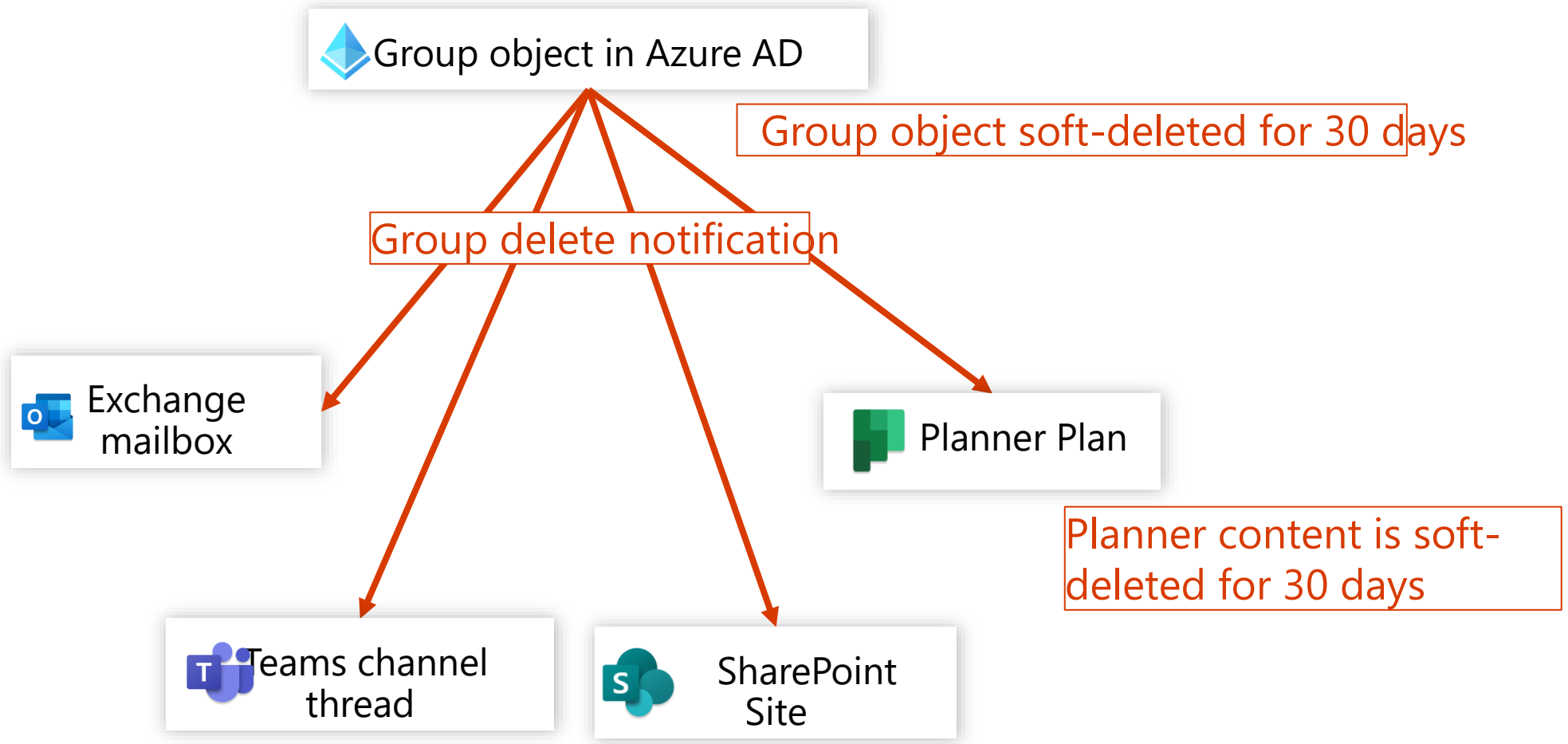
# Group Deletion flow



# Group Deletion flow

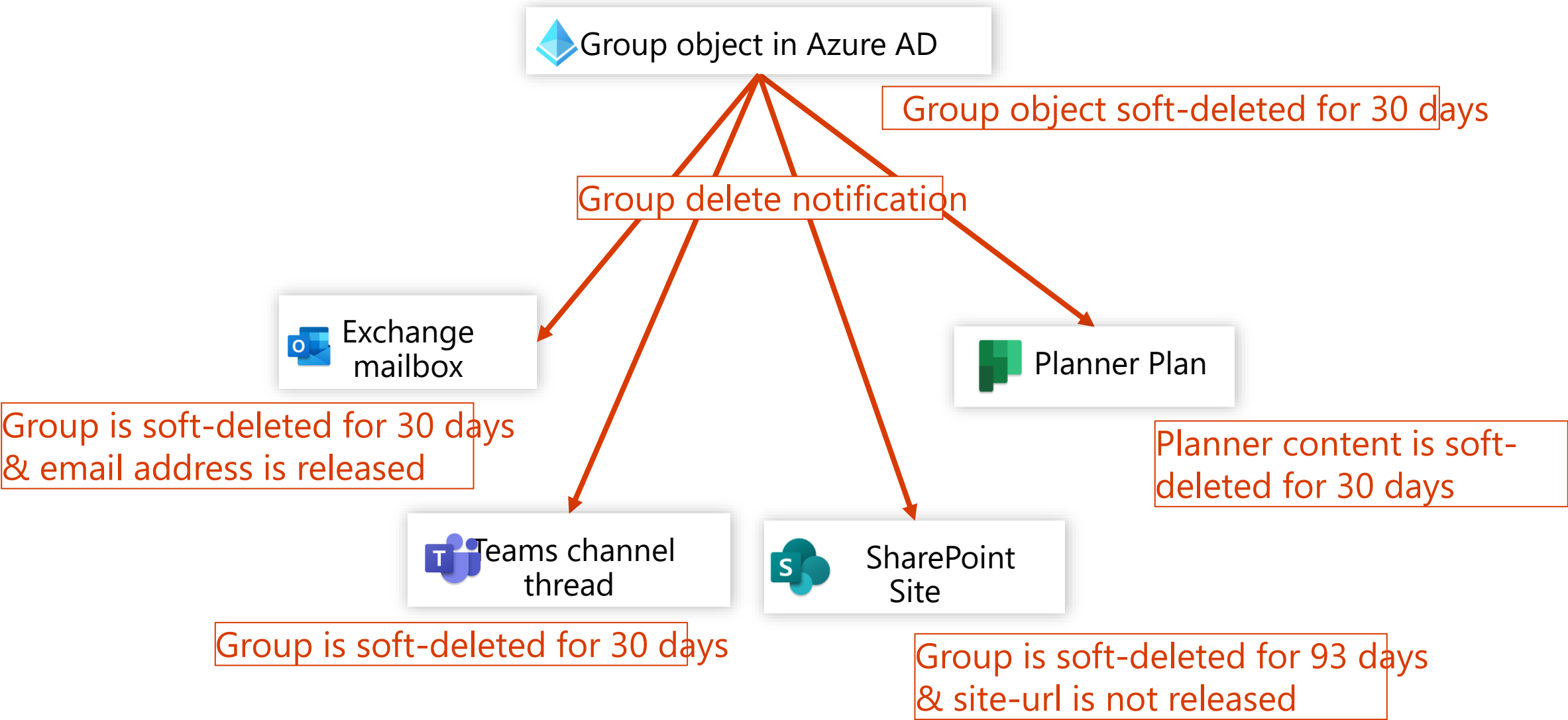


# Group Deletion flow

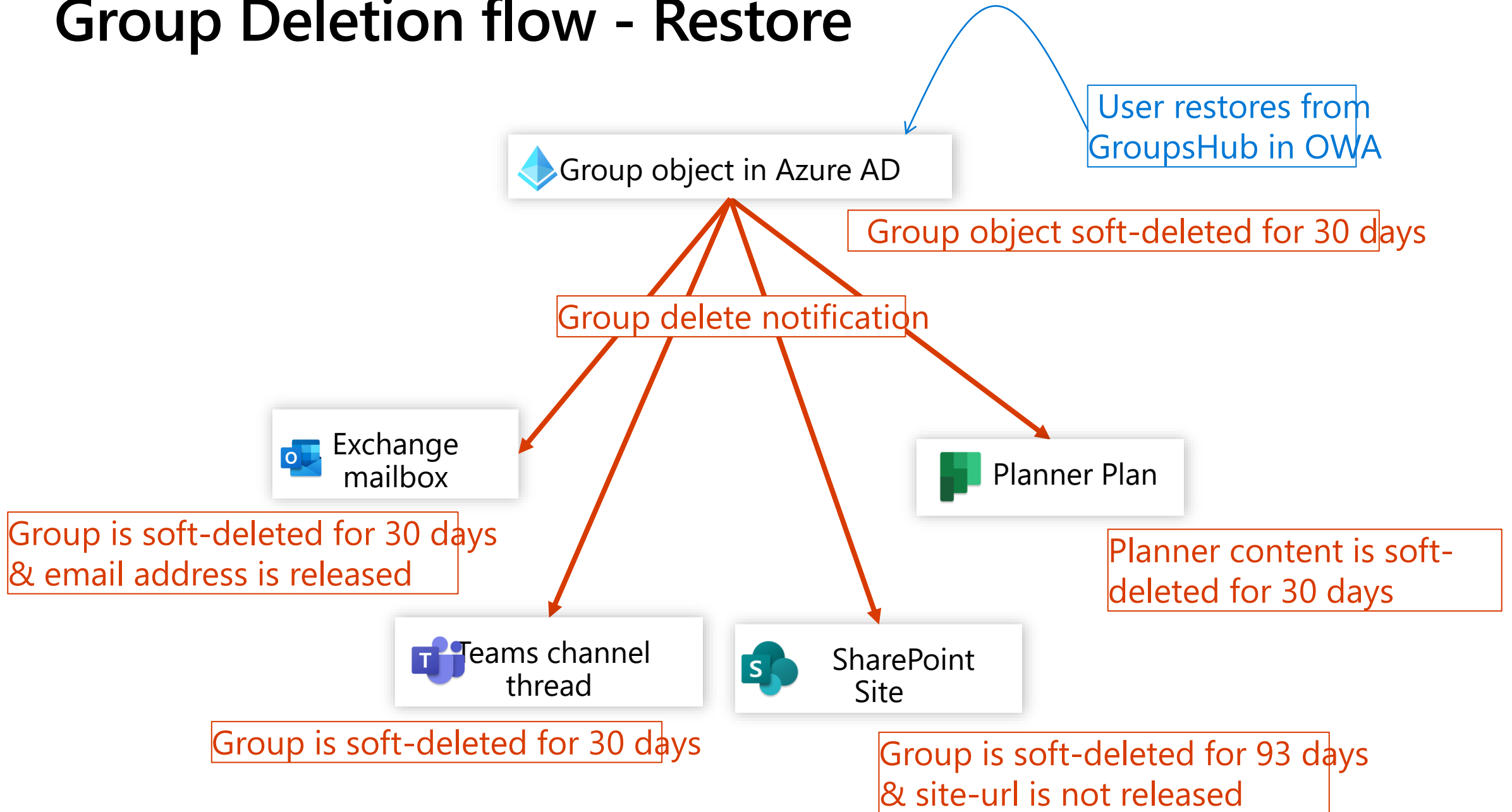




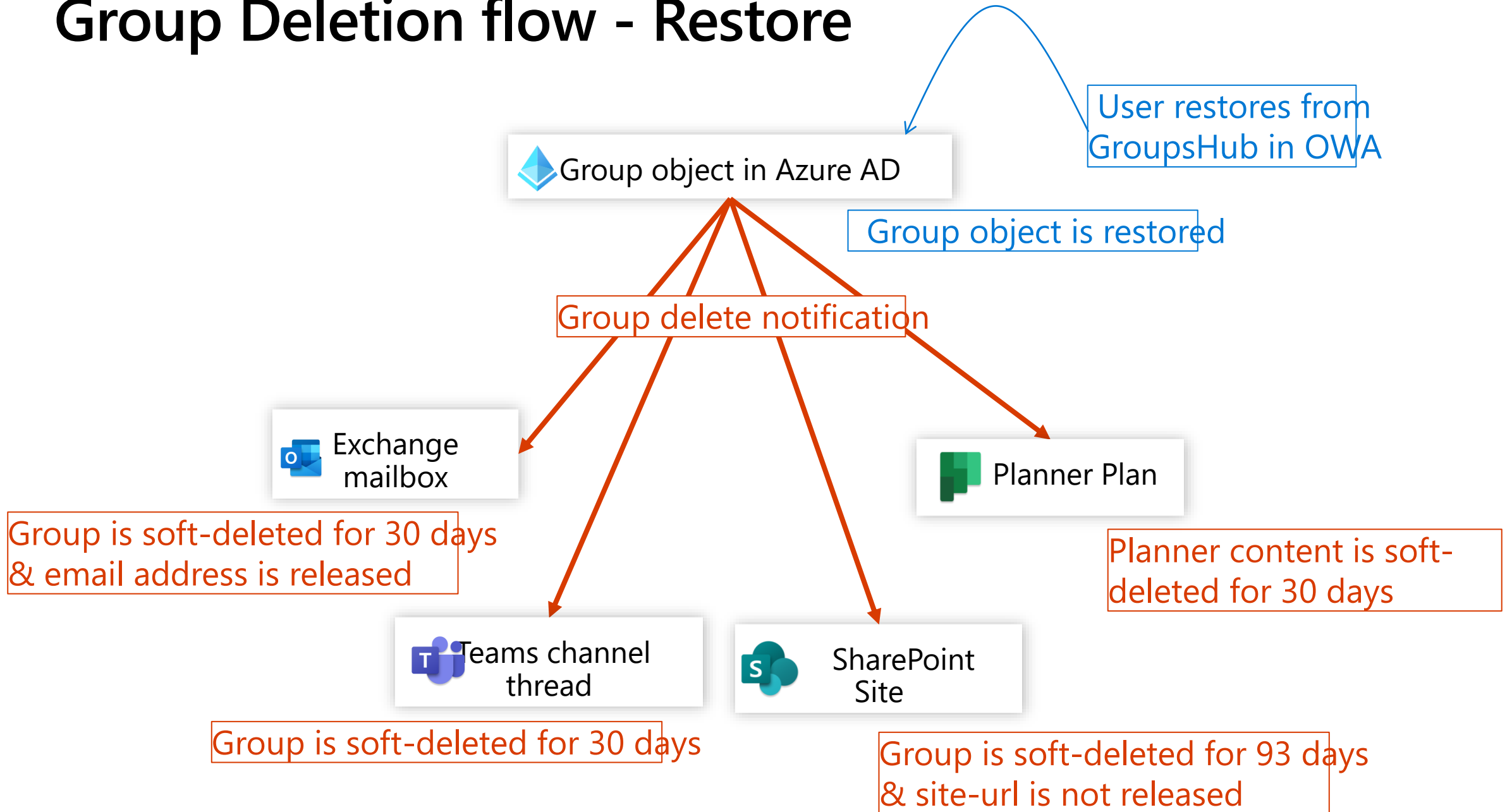
# Group Deletion flow



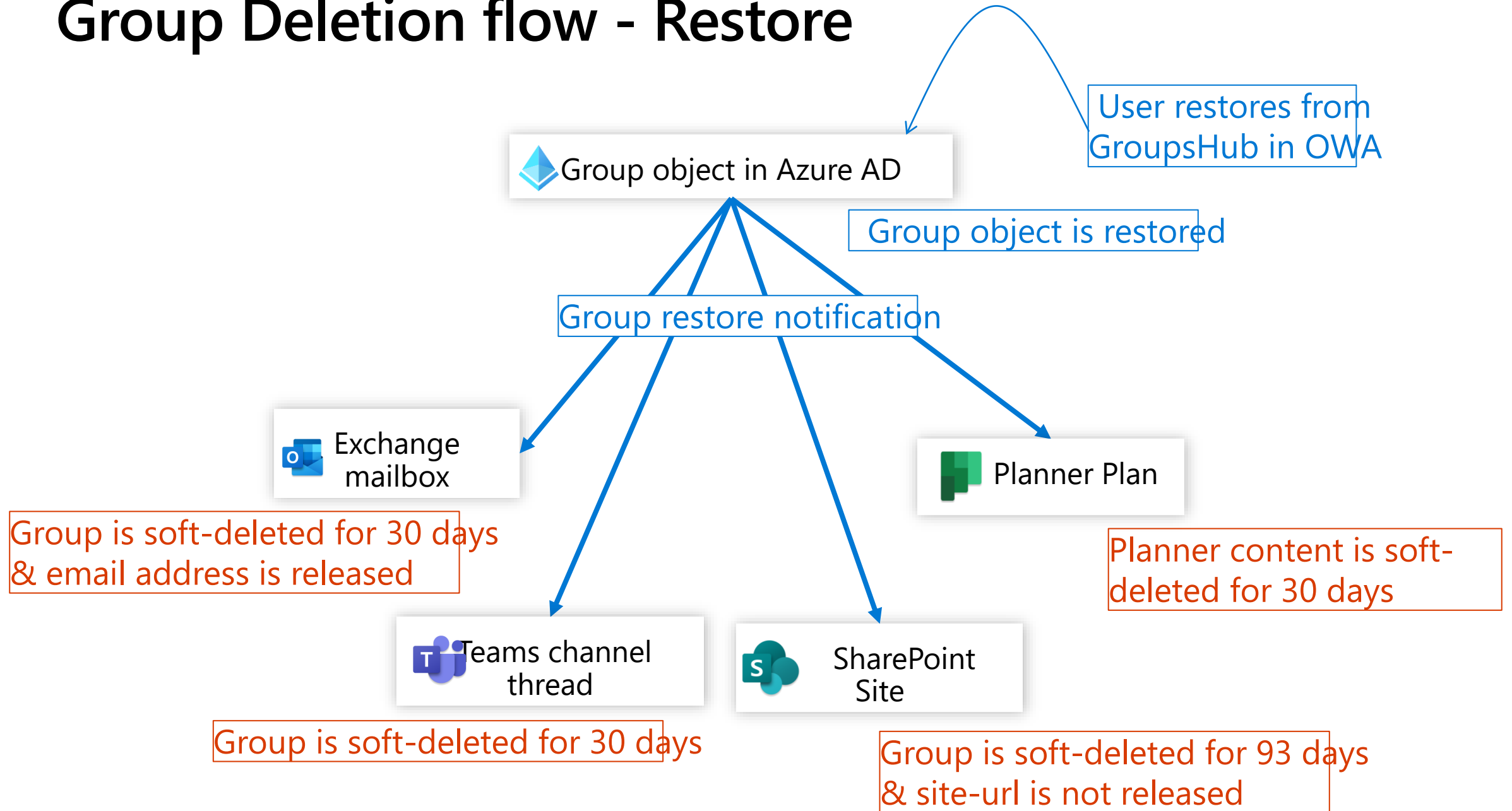
# Group Deletion flow - Restore



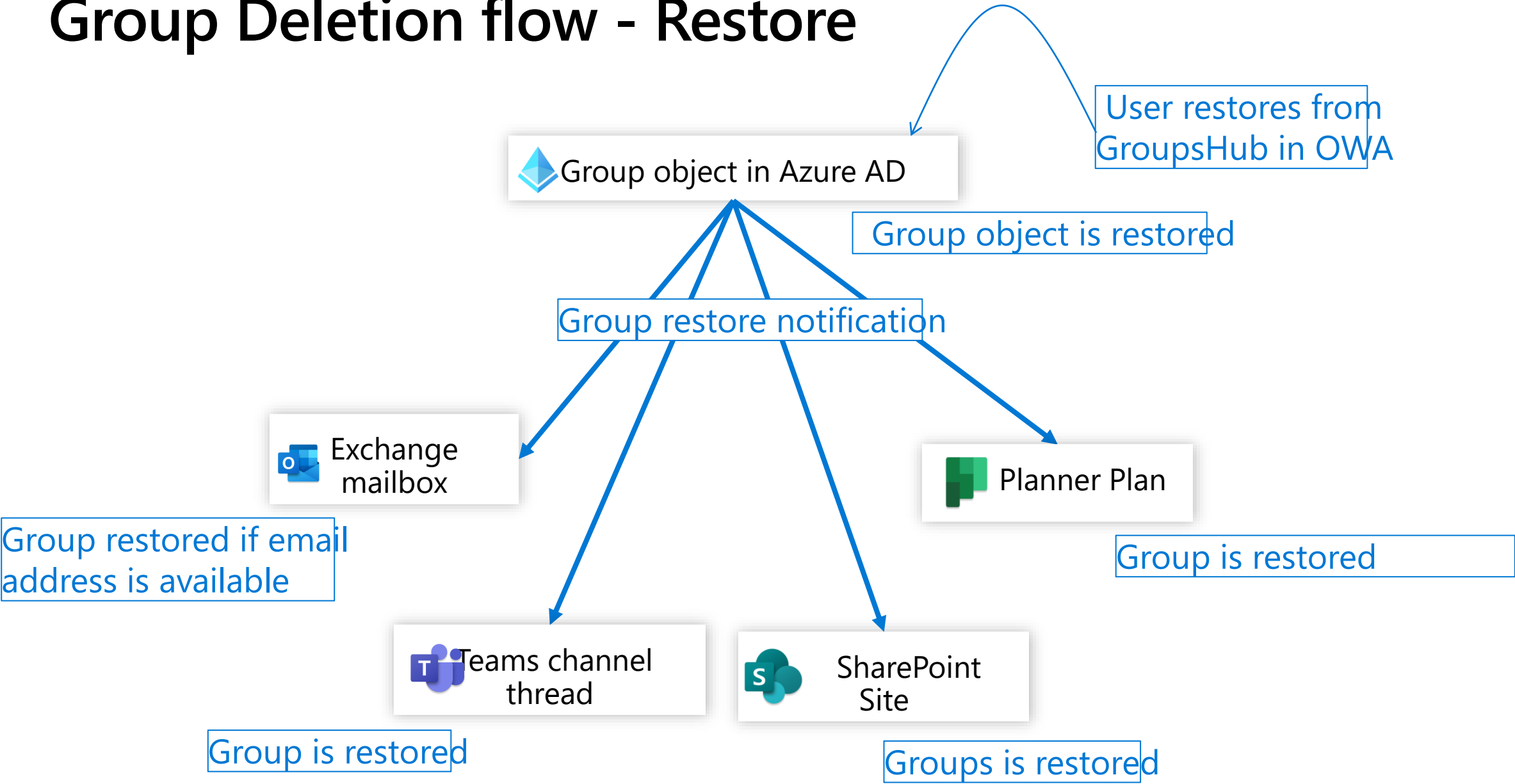
# Group Deletion flow - Restore



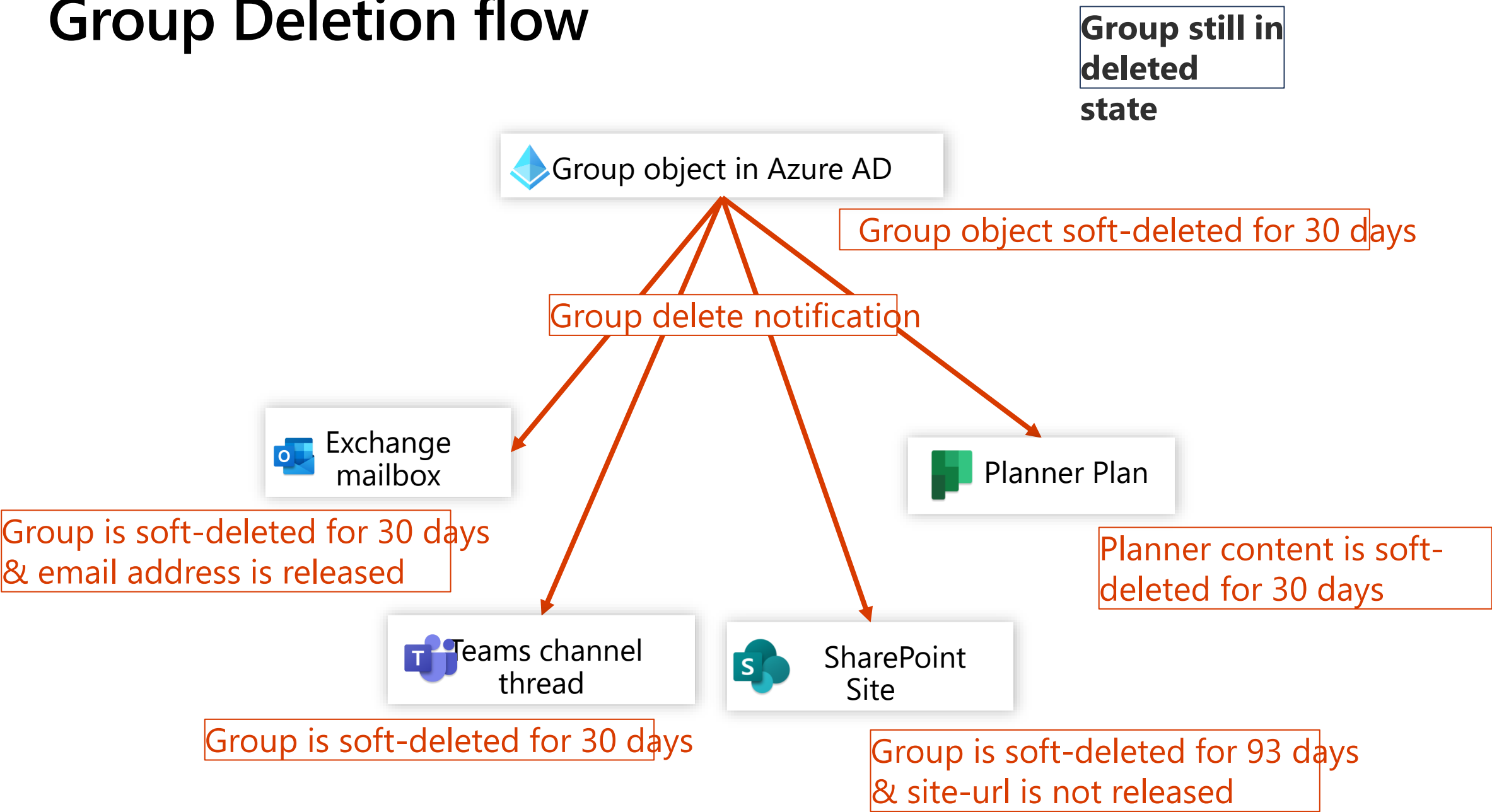
# Group Deletion flow - Restore



# Group Deletion flow - Restore

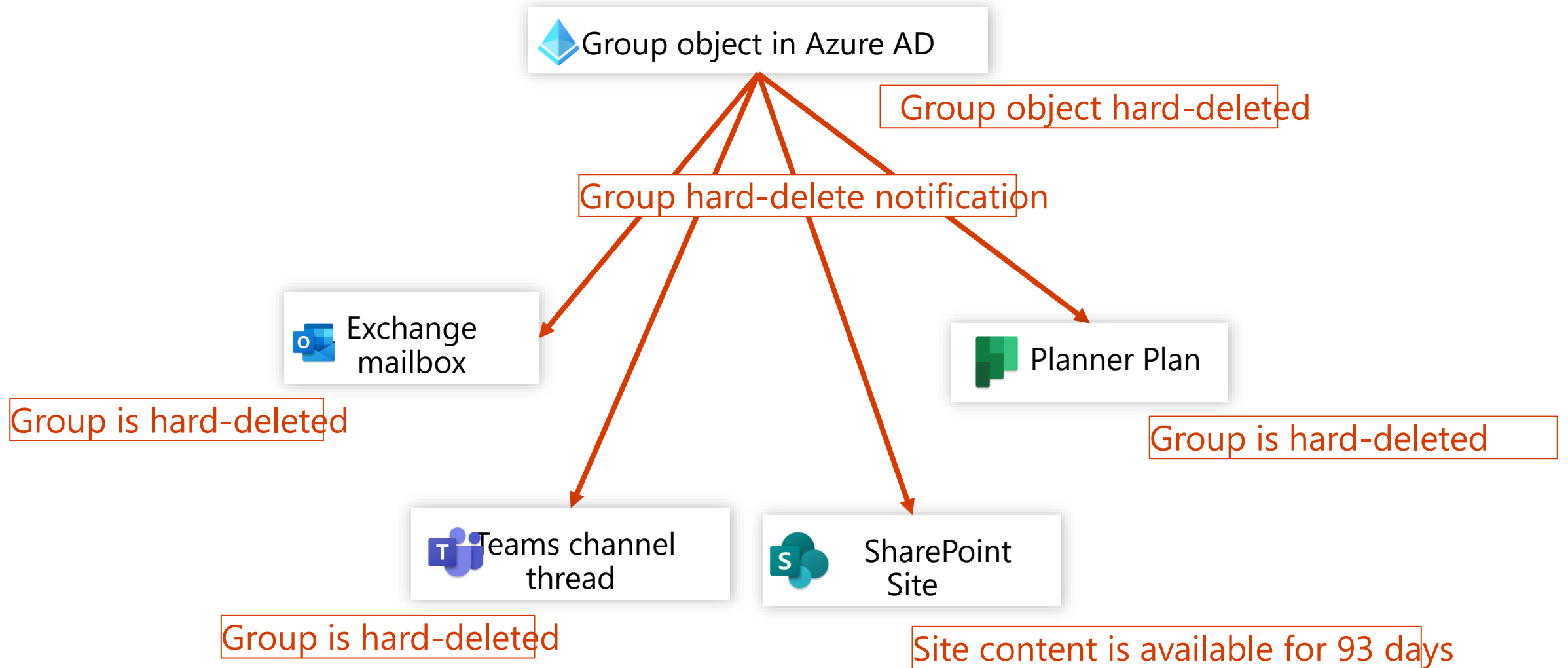


# Group Deletion flow



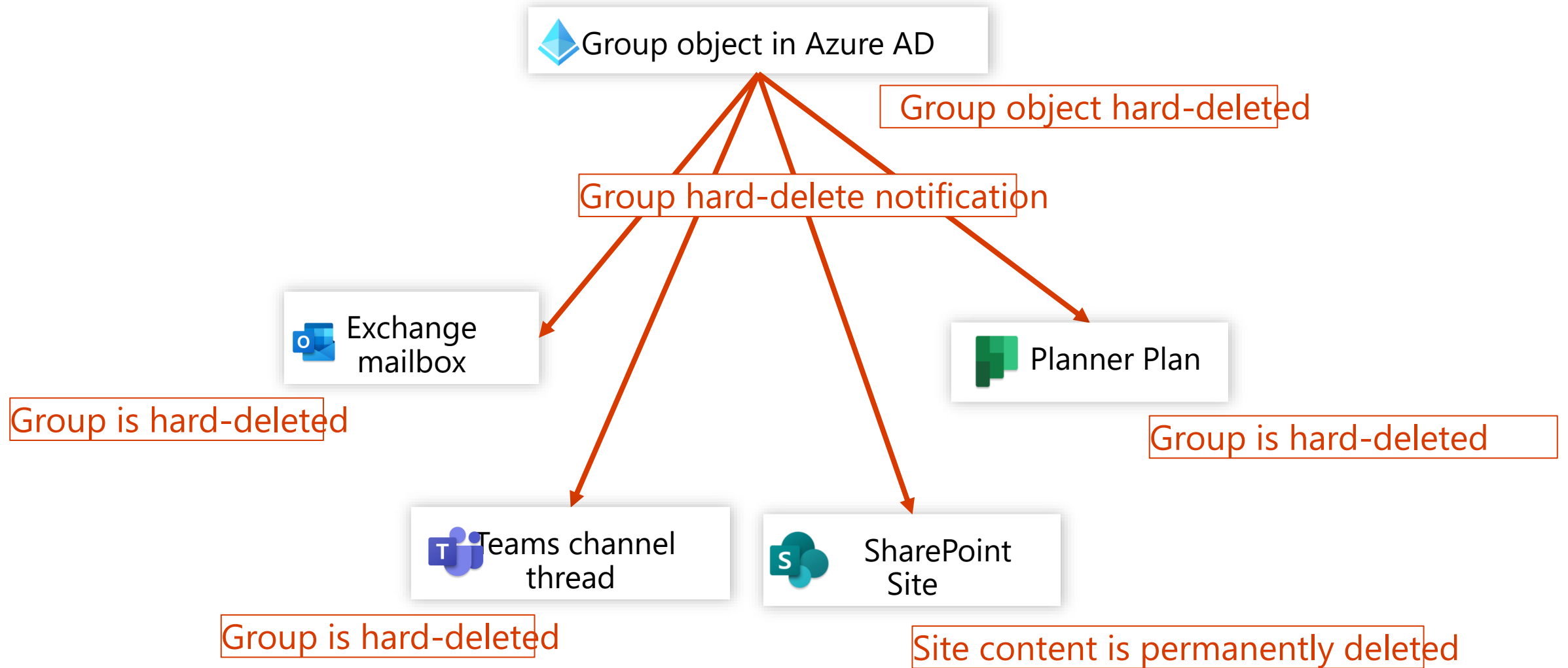
# Group Deletion flow – Hard-delete

On 31<sup>st</sup> day



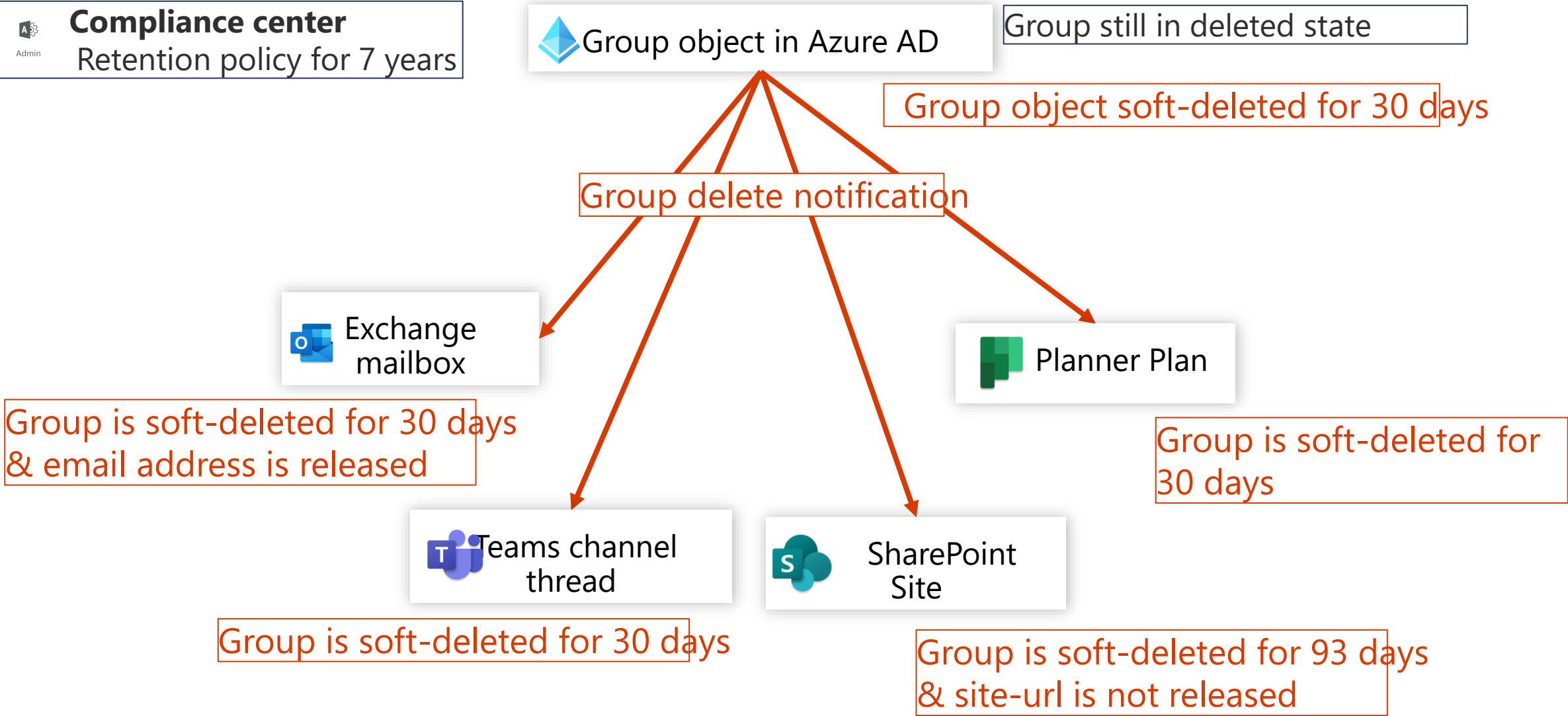
# Group Deletion flow – Hard-delete

On 94<sup>th</sup> day

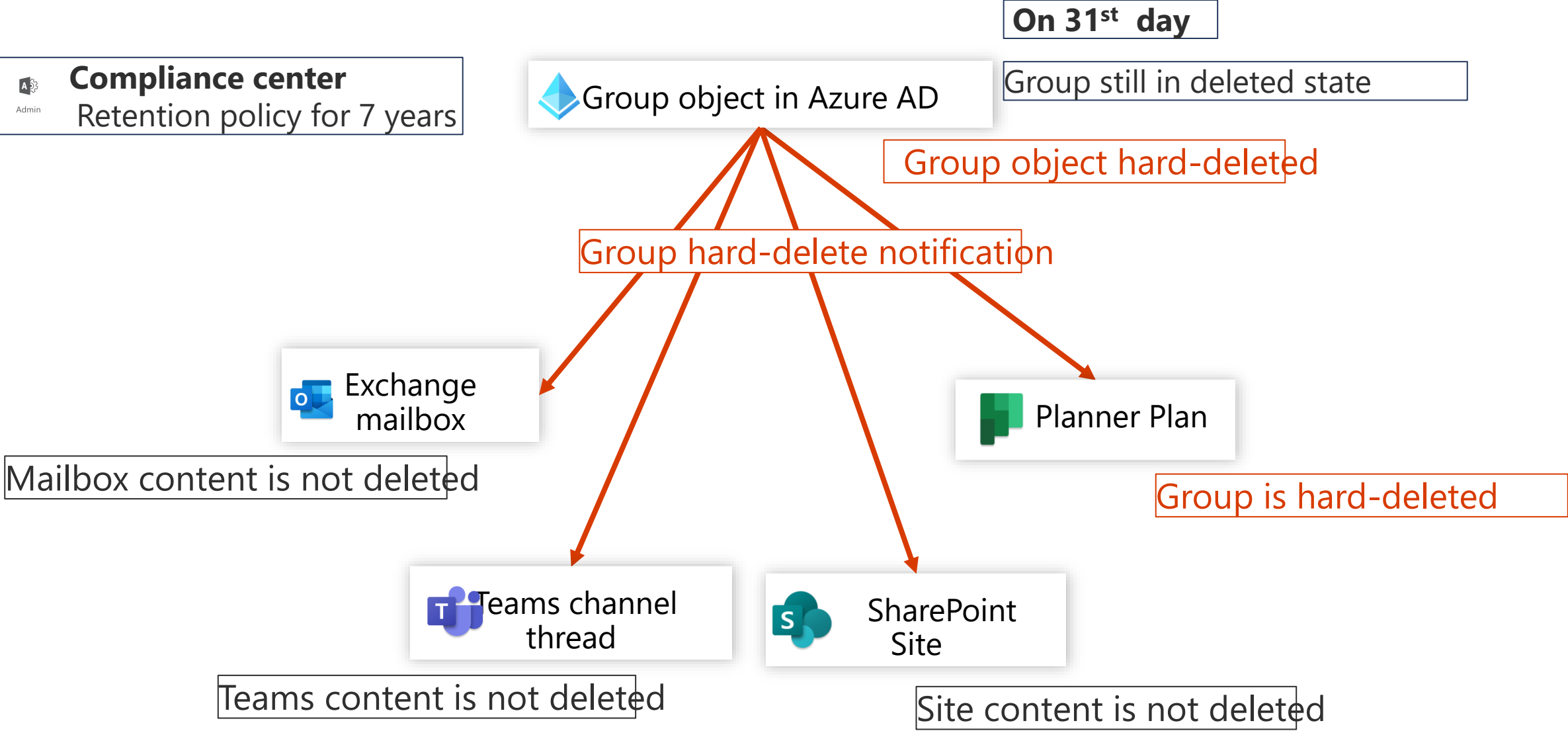




# Group Deletion flow - Retention



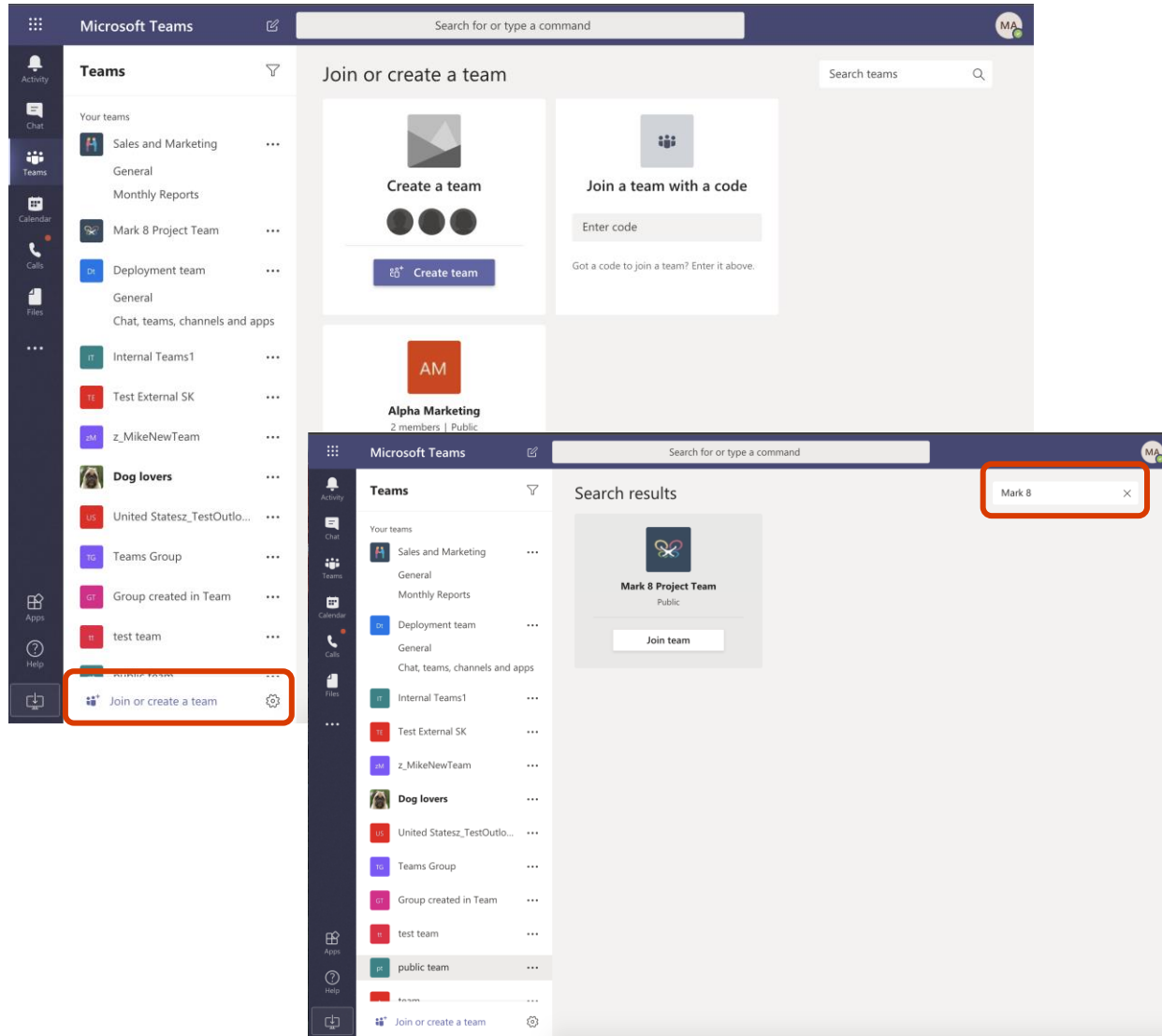
# Group Deletion flow –Retention



# Microsoft 365 Groups Architecture

## Member/Roster management

# Group - Join



## Components

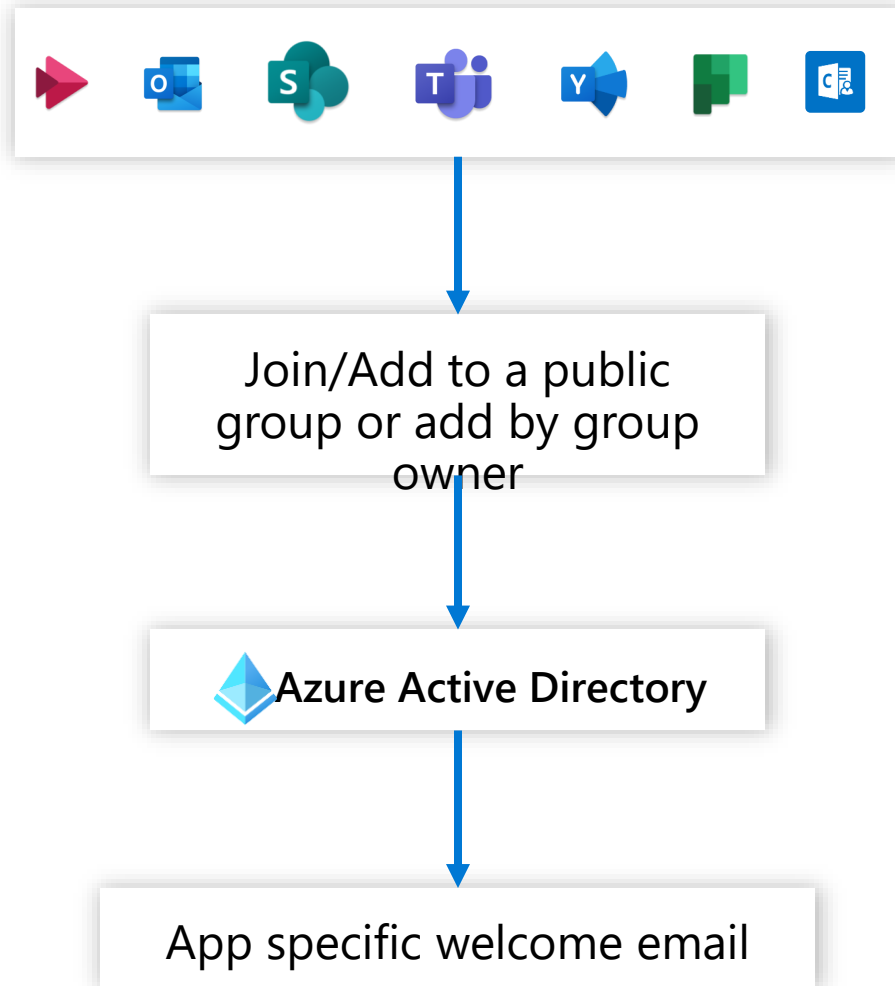
### Check creation policy

- Can this user create a Group

### Search/Discovery service

- Recommended list of all groups that the user is not a member of.

# Member Addition



## Components

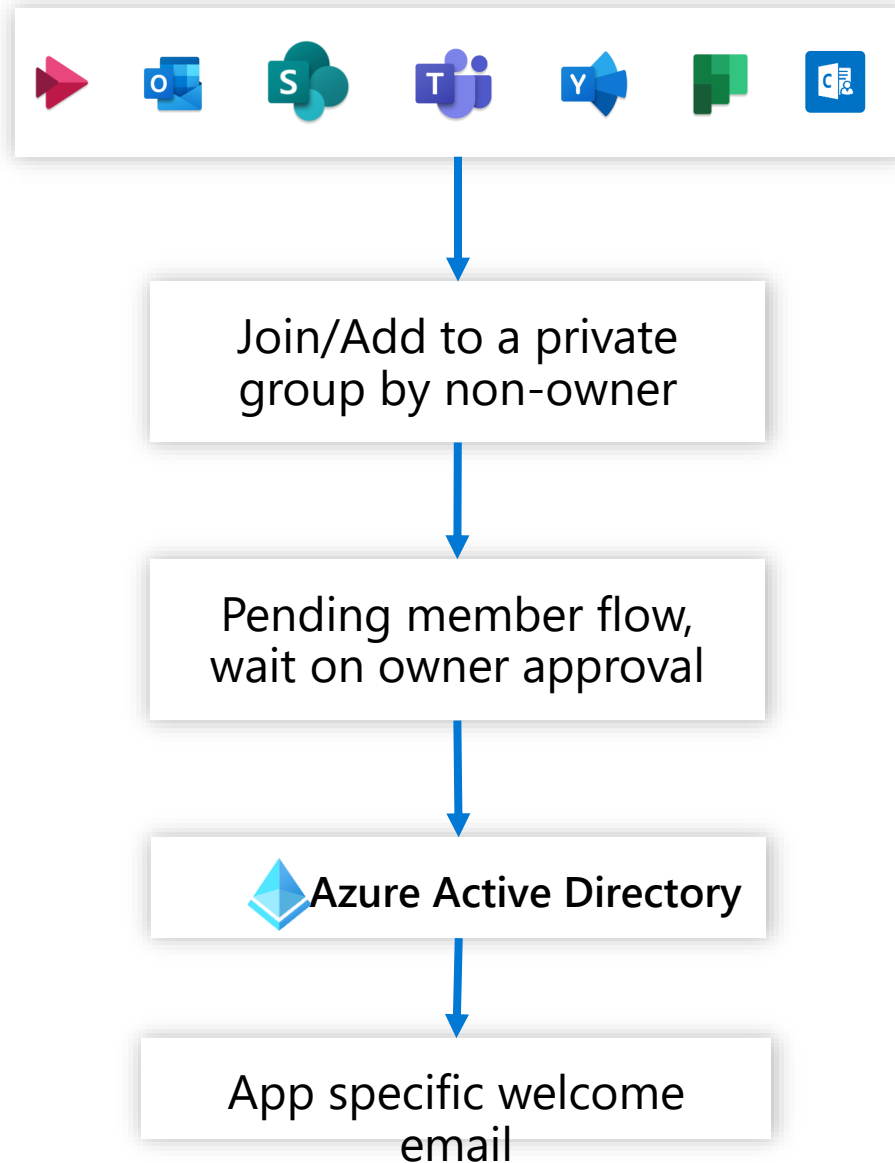
### Welcome mail

- Specific to app
- Can be disabled by admins

### Pending member flow

- Maintain pending member roster across Microsoft 365 apps until owner approval with actionable email support

# Member Addition



## Components

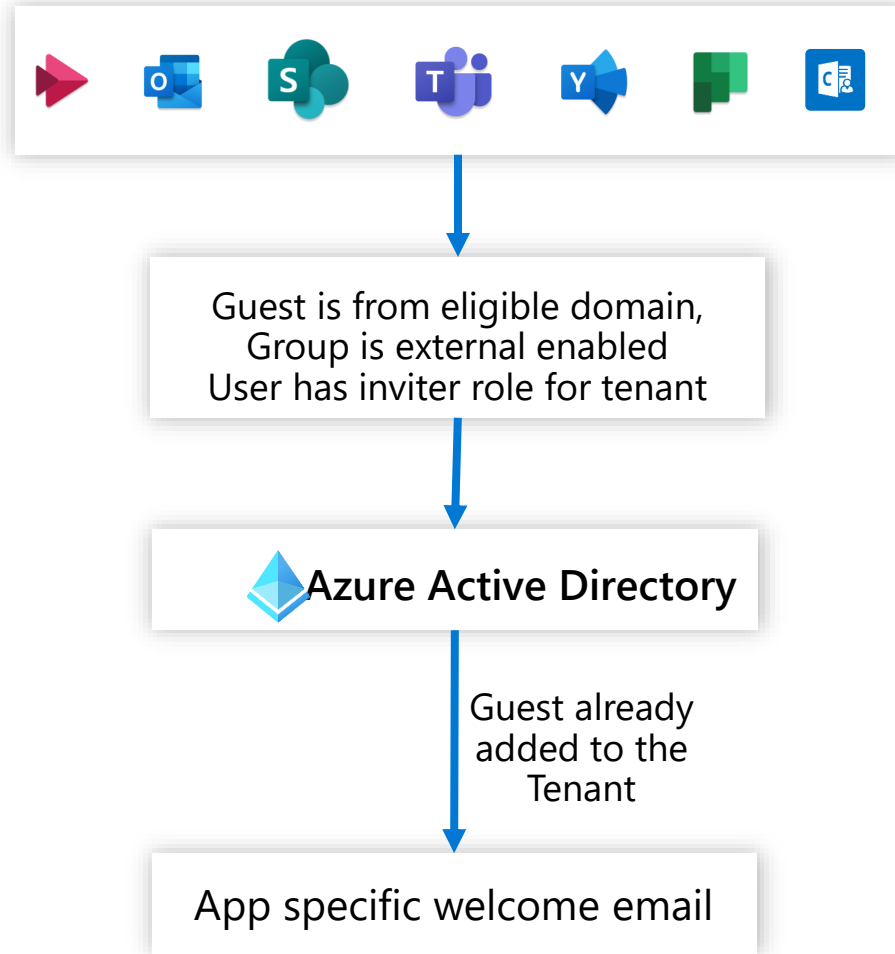
### Welcome mail

- Specific to app
- Can be disabled by admins

### Pending member flow

- Maintain pending member roster across Microsoft 365 apps until owner approval with actionable email support

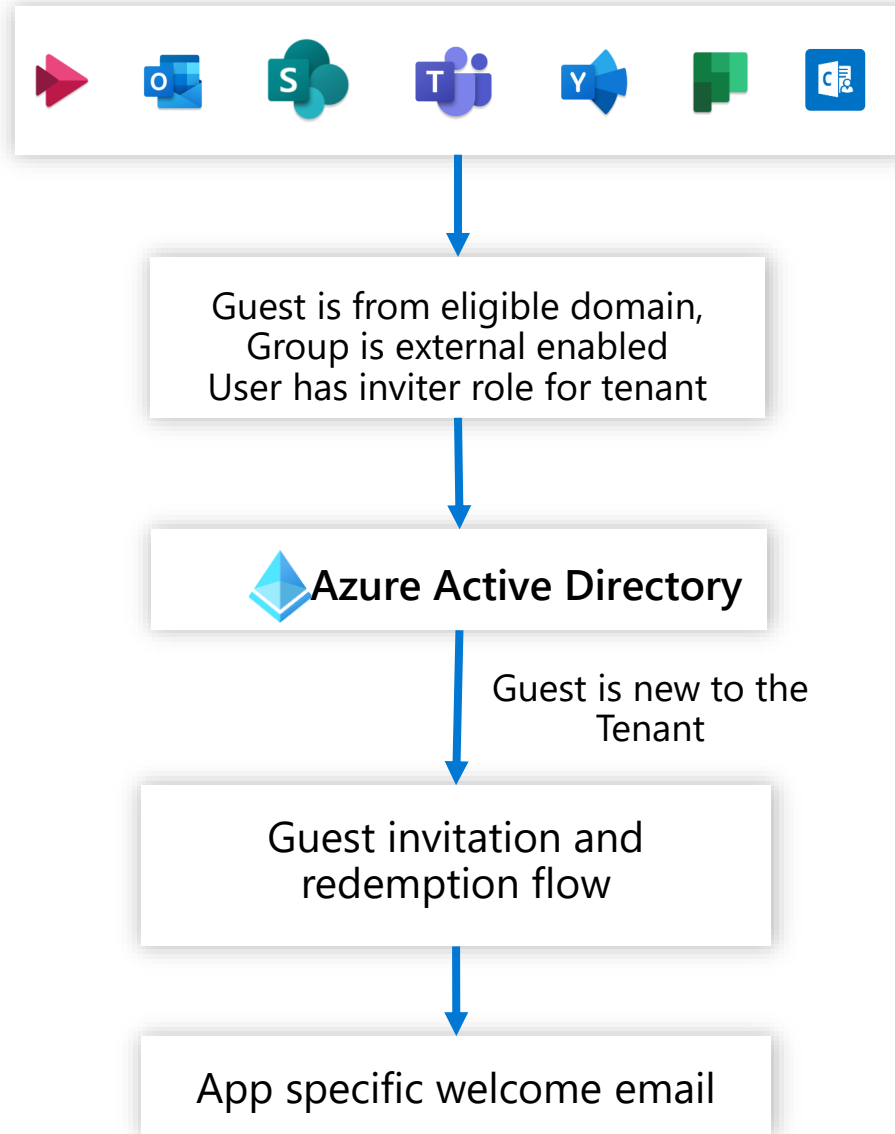
# Guest/External Member Addition



## Additional Components

- Tenant level Policies

# Guest/External Member Addition

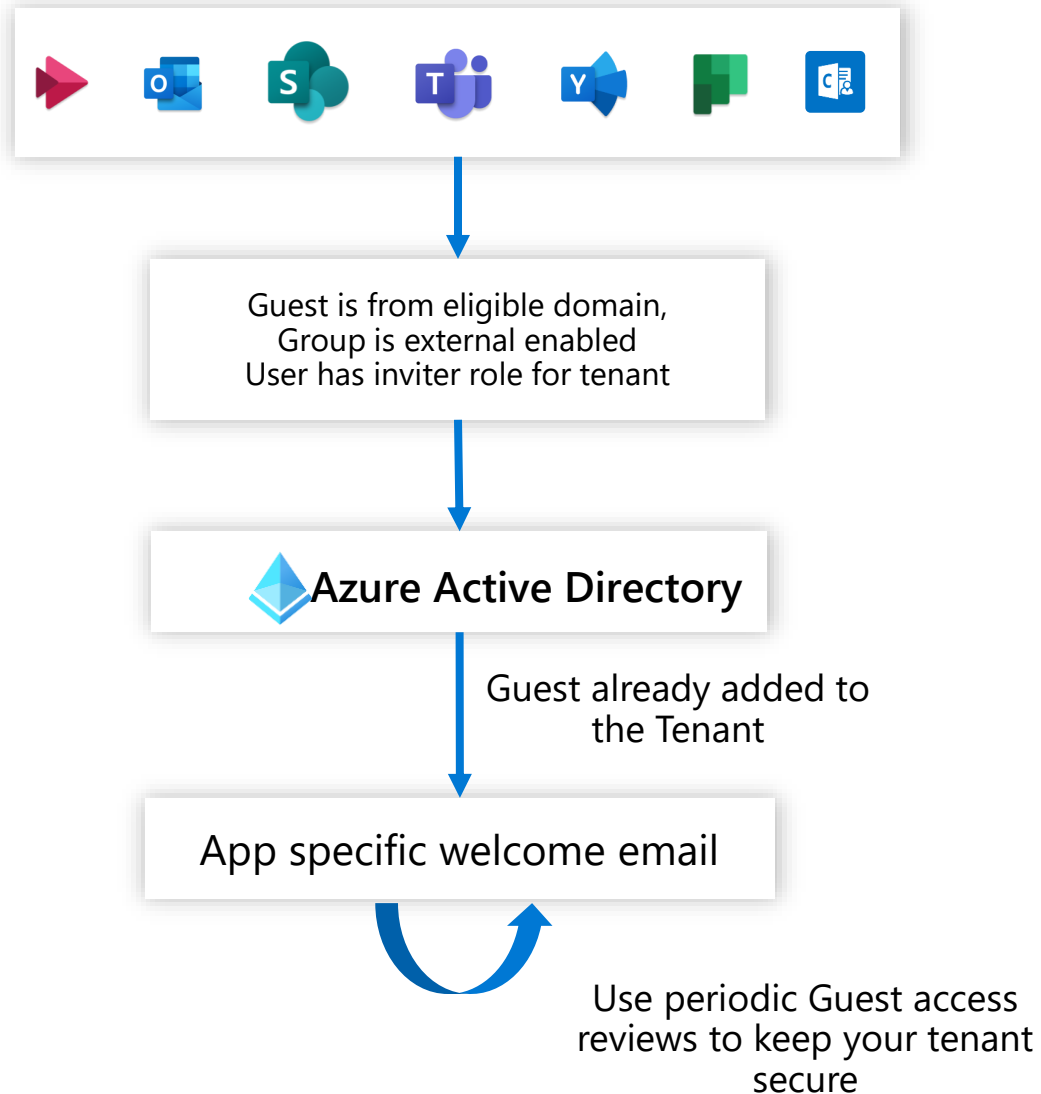


## Additional Components

- Tenant level Policies
- Invitation and redemption flow



# Guest/External Member Reviews



## Additional Components

- Tenant level Policies
- Membership review service

# Microsoft 365 Groups Architecture Administration/Policies

# Groups Governance – Admin Roles & Endpoints

## App-specific examples

Exchange and  
Email related  
policies

Exchange  
Admin Center,  
EXO Cmdlts

**Exchange  
Admin**

Teams  
policies

Teams Admin  
Center &  
Cmdlets

**Teams  
Admin**

SharePoint  
site settings  
and policies

SharePoint  
Admin Center,  
SPO Cmdlts

**SharePoint  
Admin**

## Suite-wide examples

Group  
management  
and  
restoration

Microsoft 365  
Admin Center

**Groups  
Admin**

Naming,  
Creation,  
Expiry, Guest  
and audit logs

Azure AD  
Portal and  
Cmdlets

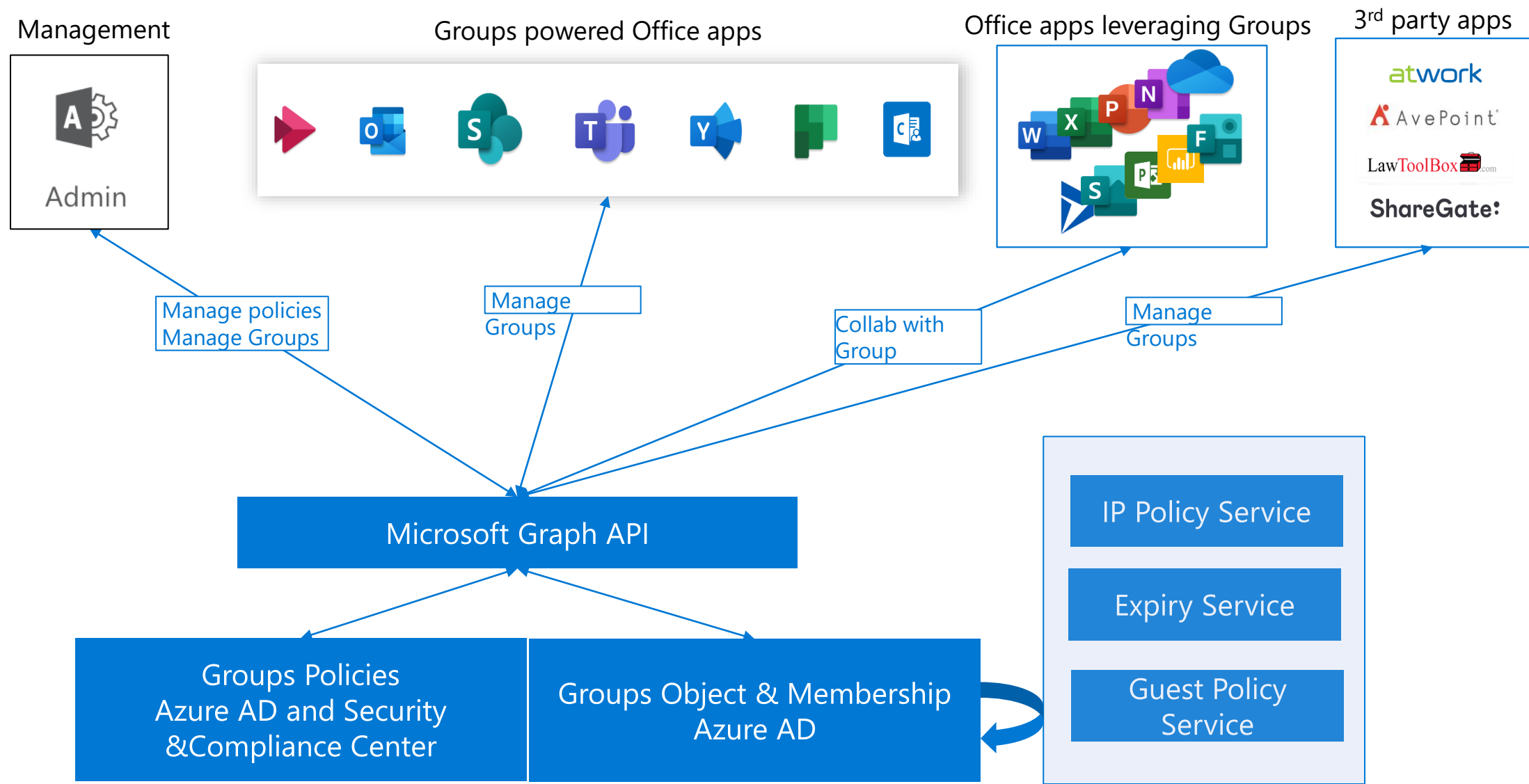
**Groups  
Admin**

Security and  
compliance  
policies

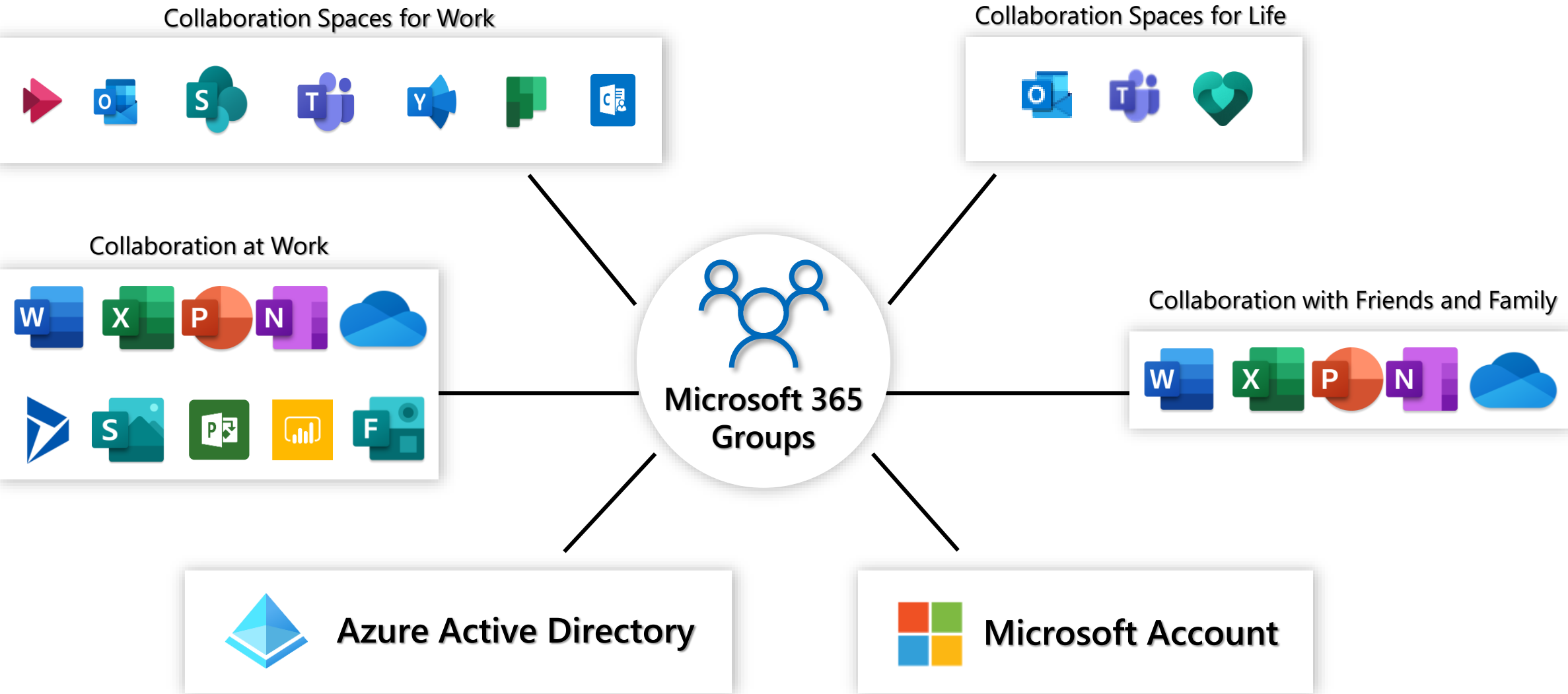
Security and  
compliance  
center &  
Cmdlets

**Security  
Admin**

# Microsoft 365 Groups - Architecture



# Powering collaboration across work and life



Other useful Groups videos

# Related Content for Microsoft 365 Admins

★ Microsoft 365 Groups videos

## Improved IT Efficiency and Agility

Role-based Access Control in Microsoft 365	<a href="https://aka.ms/Admin1008">https://aka.ms/Admin1008</a>
Microsoft 365 admin mobile app: administration on-the-go with productivity with flexibility	<a href="https://aka.ms/Admin1009">https://aka.ms/Admin1009</a>
Improve IT efficiency and agility and stay informed as you enable self-service tasks	<a href="https://aka.ms/Admin1010">https://aka.ms/Admin1010</a>
★ <b>Making IT more efficient with improvements to Microsoft 365 Groups</b>	<b><a href="https://aka.ms/Admin1011">https://aka.ms/Admin1011</a></b>
Leveraging user feedback about Microsoft 365 in your organization	<a href="https://aka.ms/Admin1015">https://aka.ms/Admin1015</a>
★ <b>Drive external collaboration for your organization using Microsoft 365 Groups</b>	<b><a href="https://aka.ms/Admin1007">https://aka.ms/Admin1007</a></b>

## Modern Cloud Management

How to manage Microsoft 365 in a remote work world	<a href="https://aka.ms/Admin3010">https://aka.ms/Admin3010</a>
Transform change management by syncing Message Center posts to Planner	<a href="https://aka.ms/Admin1019">https://aka.ms/Admin1019</a>
Managing updates of Microsoft 365 Apps using servicing automation	<a href="https://aka.ms/Admin1016">https://aka.ms/Admin1016</a>
★ <b>Microsoft 365 Groups roadmap updates</b>	<b><a href="https://aka.ms/Admin1013">https://aka.ms/Admin1013</a></b>
★ <b>Microsoft 365 Groups architecture overview and deep dive</b>	<b><a href="https://aka.ms/Admin1017">https://aka.ms/Admin1017</a></b>
★ <b>Governance and management best practices for Microsoft 365 Groups</b>	<b><a href="https://aka.ms/Admin1018">https://aka.ms/Admin1018</a></b>
Effective controls for Microsoft 365 Apps in the Microsoft 365 admin center	<a href="https://aka.ms/Admin1120">https://aka.ms/Admin1120</a>
★ <b>Managing work and life with Microsoft 365 Groups</b>	<b><a href="https://aka.ms/Admin1022">https://aka.ms/Admin1022</a></b>

## Complex Org Investments

Multi-tenant management in the Microsoft 365 admin center	<a href="https://aka.ms/Admin1004">https://aka.ms/Admin1004</a>
Supporting Mergers, Acquisitions, and Divestitures in Microsoft 365	<a href="https://aka.ms/Admin1002">https://aka.ms/Admin1002</a>
Aggregated views of Service Health and Message Center for admins that manage multiple tenants	<a href="https://aka.ms/Admin1006">https://aka.ms/Admin1006</a>
★ <b>How Microsoft manages Microsoft 365 Groups for its employees</b>	<b><a href="https://aka.ms/Admin1003">https://aka.ms/Admin1003</a></b>

# Thank you!

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## Key Resources

Tech Community	<a href="https://aka.ms/M365GroupsTC">aka.ms/M365GroupsTC</a>
User voice	<a href="https://aka.ms/M365GroupsUV">aka.ms/M365GroupsUV</a>
Microsoft Graph	<a href="https://aka.ms/M365GroupsGraph">aka.ms/M365GroupsGraph</a>
Roadmap	<a href="https://office.com/roadmap">office.com/roadmap</a>
FastTrack	<a href="https://microsoft.com/fasttrack">microsoft.com/fasttrack</a>

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Thank You