



Modern Workplace Conference Paris

Use Microsoft 365 Information
Barriers to stay secure &
compliant in your Microsoft
Teams workplace



Martina Grom Toni Pohl



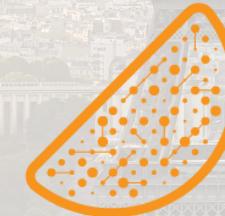
27 et 28 mars 2023 à l'Espace St Martin - Paris 3e



#MWCP23

Modern Workplace Conference Paris 2023

27 & 28 Mars 2023

Diamond **PATCH
MY PC**
Aerow
smart contents
inetum. Positive digital flow
MARTELLOPlatinum 
Exakis Nelite MagellanPartners
mandarine
academyGold 
**waza
beez**
onepoint.
beyond the obvious

Suivez-nous tout au long de l'année !

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Agenda



Microsoft Information Barriers

Why and Where

- Prevent individuals in your tenant to communicate with each other
- Isolate specific users within your tenant
- Supported in Microsoft Teams / SharePoint / OneDrive
- Not supported in Exchange (mitigation: transport rules / moderation)
- Do not apply to email communication
- Independent from compliance boundaries
- Based on Exchange Address policies
- Least privilege: IB Compliance Manager

Microsoft Information Barriers

Common use cases

- Financial Industry Regulatory Authority (FINRA)
- Education
- Legal
- Government
- Services
- Research
- Customer connections
- Remote Assist scenarios

Microsoft Information Barriers

Prerequisites

- Licenses 💰 (Only supports two way restrictions)
- Organizational structure must reflect AAD data
- Scoped directory search (enabled in Microsoft Teams Admin Center)
- Audit logging enabled
- NO Exchange address book policies
- target users need an Exchange Online license.
- PowerShell for configuration / GUID available in compliance center
 - Security & Compliance PowerShell / Exchange Online PowerShell
 - Azure PowerShell
 - SharePoint Online PowerShell
- Admin consent in Microsoft Teams
- Time (like.... Really time) ⏳

Microsoft Information Barriers

Configuration

1. Segment Users (max. 5.000 segments / Tenant)
 - Every user can only be in one segment
 - No Overlap
2. Define Information Barrier policies
3. Apply Information Barrier policies

Demo



Admin consent for IB in Microsoft Teams

```
Connect-AzureAD -Tenant "<yourtenantdomain.com>"  
//for example: Connect-AzureAD -Tenant "Contoso.onmicrosoft.com"  
  
$appId = "bcf62038-e005-436d-b970-2a472f8c1982"  
  
$sp = Get-AzureADServicePrincipal -Filter "appid eq '$($appId)'"  
  
if ($sp -eq $null) { New-AzureADServicePrincipal -AppId $appId }  
  
Start-Process  
"https://login.microsoftonline.com/common/adminconsent?client_id=$appId"
```

Consent...



admin@m365x24046415.onmicrosoft.com

Permissions requested Review for your organization

Information Barrier Processor

[App info](#)

This app would like to:

- ✓ Read and write all groups
- ✓ Read and write directory data
- ✓ Read the members of all teams
- ✓ Sign in and read user profile

If you accept, this app will get access to the specified resources for all users in your organization. No one else will be prompted to review these permissions.

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](#)

Cancel

Accept



Dashboard

Teams



Manage teams

Teams settings

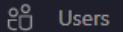
Teams policies

Team templates

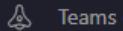
Templates policies

Teams update policies

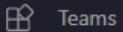
Teams upgrade settings



Users



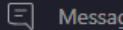
Teams devices



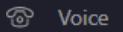
Teams apps



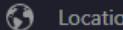
Meetings



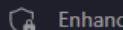
Messaging policies



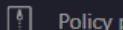
Voice



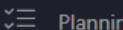
Locations



Enhanced encryption p...



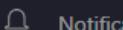
Policy packages



Planning



Analytics & reports



Notifications & alerts



Box

 On

Google Drive

 On

Egnyte

 On

Organization

Let users see others in their organization hierarchy.

 On

Devices

Control resource account behavior for Surface Hub devices that attend Teams meetings.

No access

Require a secondary form of authentication to access meeting content (i)

Set content PIN (i)

Surface Hub accounts can send emails

Changes will take time to take effect

Changes in **Teams settings** will have an impact across the organization and can't be rolled back immediately.

ConfirmCancel

Search by name

Scoped directory search controls how users can find and communicate with other people in their organization.

 On

Scope directory search using an Exchange address book policy

Safety and communications



Microsoft Information Barriers

Outcome In SharePoint and OneDrive

- Adding a member to a site
- Accessing site or content by a user
- Sharing site or content with another user
- Searching a site

Microsoft Information Barriers

Outcome in Microsoft Teams

- Prevent unauthorized communication
- Searching for a user
- Adding a member to a Team
- Starting a chat session
- Starting a group chat
- Invite someone to join a meeting
- Screen / File sharing
- Calling
- Sharing a file with another user
- Access to file through sharing link

Teams / Groups mode after IB enablement

- Open: default, without IB policies
- Implicit: Default IB mode after enabling IB
- Owner moderated: Set on a Team when you allow communication between incompatible segment users

The background image shows a panoramic aerial view of the Paris skyline during sunset. The Eiffel Tower stands prominently in the foreground, its silhouette against the warm orange and yellow hues of the sky. Behind it, the dense urban landscape of Paris stretches towards the horizon, with numerous buildings, parks, and modern skyscrapers like the Tour Montparnasse and the Tour de la Défense visible.

Information Barriers behaviors

Add members to Information Barriers Team

Start typing a name, distribution list, or security group to add to your team. You can also add people outside your organization as guests by typing their email addresses.

aaron li

Add

We didn't find any matches. Talk to your IT admin about expanding the scope of your search.

The Microsoft Teams interface shows the Chat tab selected. A search bar at the top right contains the text "Search for people, messages or files. Type / to see commands." Below the search bar, a red callout box appears over the search results area, containing the message: "We didn't find any matches. Talk to your IT admin about expanding the scope of your search." The search results list shows recent chats with "Alex and Johanna" (10/21), "Adele and Henrietta" (10/18), and "Alex Wilber" (10/17). On the left sidebar, the Chat tab is highlighted with a red badge showing the number 12.

Microsoft Teams

Search for people, messages or files. Type / to see commands.

Chat Recent Contacts

To: pradeep gupta

We didn't find any matches. Talk to your IT admin about expanding the scope of your search.

Alex and Johanna
You: How are you?
10/21

Adele and Henrietta
Adele: Hello Enrico and Henrietta
10/18

Alex Wilber
10/17

Activity Chat Teams Calendar Calls

Take Microsoft Teams with you



Search or type / for a list of shortcuts

Activity

Chat
1

Teams

Calendar

Calls

Files

Apps

∅ Sorry, your company policy prevents you from joining this call

Dismiss



Chat

Recent Contacts



Enrico, Lee, Pradeep

Chat Files

Search for people, messages or files. Type / to see commands.



Enrico, Lee



Chat Files



Patti Fernandez added Enrico Cattaneo and Lee Gu to the chat.

3:29 PM

Hello....All Creating a group chat to share info with banking and advisory

Chat visible

The screenshot shows the Microsoft Teams Chat interface. The left sidebar has a dark theme with icons for Activity, Chat (selected), Teams, Calendar, Calls, Files, and Apps. The main area shows a recent chat with Allan Deyoung. The message from Allan Deyoung on May 1, 2020, at 2:15 PM is highlighted with a red box. The message content is: "Hi **Alex Wilber**, How are you doing?" Below it, another message from Allan Deyoung at 2:18 PM says: "Good to hear! Yeah, just validating 'Information Barrier' Policy". A red box also highlights the message input field at the bottom.

InPrivate Allan Deyoung | Microsoft ... + https://teams.microsoft.com/_#/conversations/19:af378e72-9c00-4f70-be29-265597b13566_fa272734-8a2c-427e-a595-58f0b4a69e30@unq.gbl.spaces?ctx=cl

Microsoft Teams Chat Recent Contacts ... Allan Deyoung Chat Files Organisation Activity +

Search for or type a command

Allan Deyoung 30/04 11:59 PM Edited Checking for updates on IB Policy

IB Group 2:30 PM MOD: Hi All I will be updating on Retails front o...

Allan Deyoung 2:21 PM You: Ok Allan Deyoung

Allan Deyoung 2:15 PM @ Hi **Alex Wilber**, How are you doing?

Allan Deyoung 2:18 PM Good to hear! Yeah, just validating 'Information Barrier' Policy

Type a new message

Chat disabled

The screenshot shows a Microsoft Teams chat window for user Allan Deyoung. The left sidebar has icons for Activity, Chat (selected), Teams, Calendar, Calls, Files, and Apps. The main area shows a recent conversation with Allan Deyoung. A message from Allan on April 30 at 11:59 PM is shown as edited, reading "Checking for updates on IB Policy". A message from Allan on May 1 at 2:15 PM reads "Hi **Alex Wilber**, How are you doing?". A message from Allan on May 1 at 2:18 PM reads "Good to hear! Yeah, just validating 'Information Barrier' Policy". A message from Allan on May 1 at 2:21 PM reads "Ok Allan Deyoung". At the bottom of the message list, there is a red box around the text "Administrator has disabled chat for this user". The status bar at the bottom includes icons for file, exclamation, pen, smiley face, GIF, emoji, and more.

InPrivate Allan Deyoung | Microsoft Teams + https://teams.microsoft.com/_#/conversations/19:af378e72-9c00-4f70-be29-265597b13566_fa272734-8a2c-427e-a595-58f0b4a69e30@unq.gbl.spaces?ctx=cl - X

Microsoft Teams Search for or type a command Allan Deyoung Chat Files Organisation Activity +

Chat Recent Contacts

Recent

IB Group 2:30 PM MOD: Hi All I will be updating on Retails front o...

Allan Deyoung 2:21 PM You: Ok Allan Deyoung

Allan Deyoung 30/04 11:59 PM Edited Checking for updates on IB Policy

1 May 2020

Today

Allan Deyoung 2:15 PM @ Hi **Alex Wilber**, How are you doing?

2:17 PM Hello Allan Deyoung, Yeah, I am doing good. Thank You

Allan Deyoung 2:18 PM Good to hear! Yeah, just validating 'Information Barrier' Policy

2:21 PM Ok Allan Deyoung

Administrator has disabled chat for this user

User removed from group chat

A Search for people, messages or files. Type / to see commands.

Allan Deyoung, Debra, Grady Archie Chat Files

Henrietta Mueller added Enrico Cattaneo and 4 others to the chat.

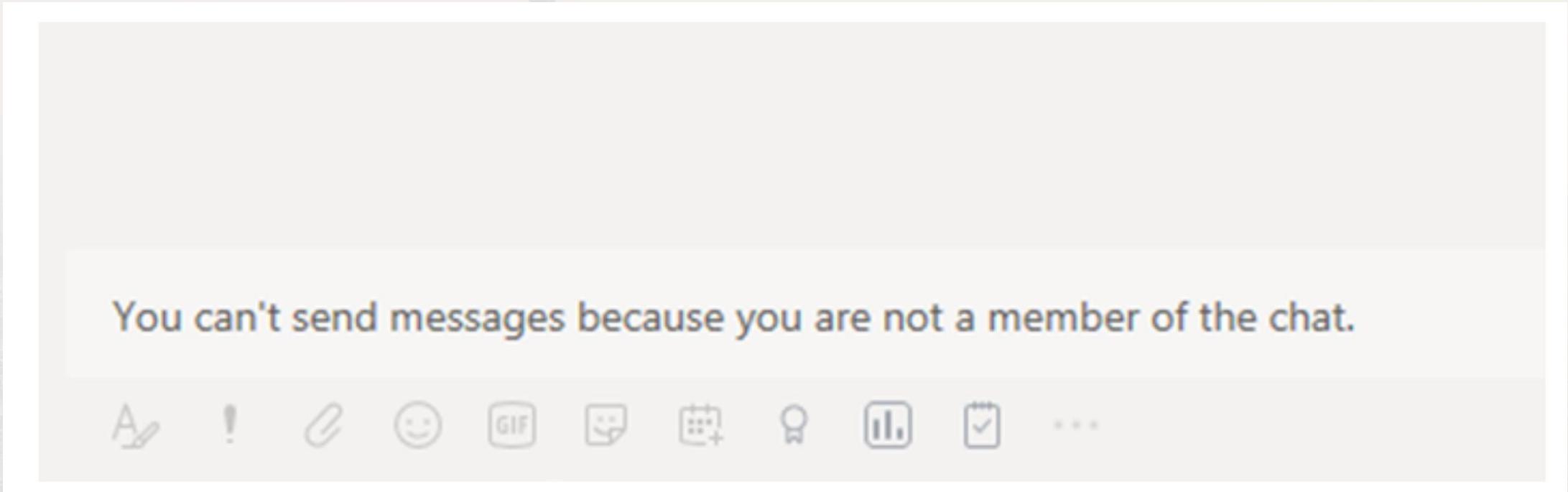
Henrietta Mueller 8/19 2:53 PM Starting a cool new group chat!

Henrietta Mueller removed Irvin Sayers from the chat.

Enrico Cattaneo has been removed from the chat.

The screenshot shows a group chat interface with three members: Allan Deyoung, Debra, and Grady Archie. A search bar at the top allows users to search for people, messages, or files. Below the search bar, the member names are listed with their initials in colored circles (A, D, G). The 'Chat' tab is selected. In the message list, Henrietta Mueller is shown adding four other users to the chat. She then starts a new group chat. Later, she removes Irvin Sayers from the chat. Finally, Enrico Cattaneo is removed from the chat. The message from Enrico Cattaneo is highlighted with a red border.

User can no longer send messages to chat



Hidden information in people picker

Search for people, messages or files. Type / to see commands.

Allan Deyoung

Due to privacy rules set by your admin some information is hidden.

Henrietta Mueller removed Irvin Sayers from the chat.

Enrico Cattaneo has been removed from the chat.

Blocked activity Tab

The screenshot shows a Microsoft Teams interface within a web browser window. The browser title bar reads "InPrivate Allan Deyoung | Micros X". The address bar shows the URL "https://teams.microsoft.com/_#/people.activity/8:orgid:af378e72-9c00-4f70-be29-265597b13566?ctx=chat". The Microsoft Teams header includes tabs for Chat, Recent, Contacts, and Activity. The Activity tab is highlighted with a red box. The main area displays a message from "Allan Deyoung" stating "Allan hasn't been active lately in any teams you have in common." A message from "IB Group" is also visible in the recent chats. The left sidebar lists various Microsoft 365 apps: Activity, Chat, Teams, Calendar, Calls, Files, and Apps. The Help icon at the bottom left is also highlighted with a red box.

InPrivate Allan Deyoung | Micros X

https://teams.microsoft.com/_#/people.activity/8:orgid:af378e72-9c00-4f70-be29-265597b13566?ctx=chat

Microsoft Teams

Search for or type a command

Allan Deyoung Chat Files Organisation Activity

Chat Recent Contacts

Allan Deyoung Allan hasn't been active lately in any teams you have in common.

IB Group MOD: Hi All I will be updating on Retails front o...

Allan Deyoung You: Ok Allan Deyoung

Activity Chat Teams Calendar Calls Files Apps Help

Blocked user in contacts list

The screenshot shows a Microsoft Teams chat window. The left sidebar has a red box around the 'Recent' tab under the 'Chat' section. The main area shows a conversation with 'Allan Deyoung'. A message from Allan Deyoung at 2:21 PM is highlighted with a red box: 'Allan Deyoung You: Ok Allan Deyoung'. Below it, a message from Allan Deyoung at 2:15 PM is shown: 'Allan Deyoung 2:15 PM @ Hi **Alex Wilber**, How are you doing?'. A response from Alex Wilber at 2:17 PM follows: 'Hello Allan Deyoung, Yeah, I am doing good. Thank You'. Another message from Allan Deyoung at 2:18 PM is shown: 'Allan Deyoung 2:18 PM Good to hear! Yeah, just validating 'Information Barrier' Policy'. The bottom message input field has a red box around it and contains the placeholder 'Type a new message'.

InPrivate Allan Deyoung | Microso + https://teams.microsoft.com/_#/conversations/19:af378e72-9c00-4f70-be29-265597b13566_fa272734-8a2c-427e-a595-58f0b4a69e30@unq.gbl.spaces?ctx=ch - [...](#)

Microsoft Teams

Search for or type a command

Activity Chat Recent Contacts

Allan Deyoung Chat Files Organisation Activity +

Allan Deyoung 30/04 11:59 PM Edited Checking for updates on IB Policy

IB Group 2:30 PM MOD: Hi All I will be updating on Retails front o...

Allan Deyoung 2:21 PM You: Ok Allan Deyoung

Allan Deyoung 2:15 PM @ Hi **Alex Wilber**, How are you doing?

2:17 PM Hello Allan Deyoung, Yeah, I am doing good. Thank You

Allan Deyoung 2:18 PM Good to hear! Yeah, just validating 'Information Barrier' Policy

2:21 PM Ok Allan Deyoung

Type a new message

Disabled chat for user on content list

The screenshot shows a Microsoft Teams chat window for user Allan Deyoung. The left sidebar includes Activity, Chat (selected), Teams, Calendar, Calls, Files, and Apps. The main area shows a recent conversation with Allan Deyoung. A message from Allan at 2:15 PM (@) says: "Hi Alex Wilber, How are you doing?". A response from Alex at 2:17 PM says: "Hello Allan Deyoung, Yeah, I am doing good. Thank You". Another message from Allan at 2:18 PM says: "Good to hear! Yeah, just validating 'Information Barrier' Policy". A final message from Allan at 2:21 PM says: "Ok Allan Deyoung". At the bottom of the message list, a red box highlights the text "Administrator has disabled chat for this user". The URL in the browser bar is https://teams.microsoft.com/_#/conversations/19:af378e72-9c00-4f70-be29-265597b13566_fa272734-8a2c-427e-a595-58f0b4a69e30@unq.gbl.spaces?ctx=cl.

InPrivate Allan Deyoung | Microsoft + https://teams.microsoft.com/_#/conversations/19:af378e72-9c00-4f70-be29-265597b13566_fa272734-8a2c-427e-a595-58f0b4a69e30@unq.gbl.spaces?ctx=cl - X

Microsoft Teams

Search for or type a command

Allan Deyoung Chat Files Organisation Activity +

Chat Recent Contacts

Recent

IB Group 2:30 PM MOD: Hi All I will be updating on Retails front o...

Allan Deyoung 2:21 PM You: Ok Allan Deyoung

Allan Deyoung 30/04 11:59 PM Edited Checking for updates on IB Policy

1 May 2020

01/05 12:01 AM Allan Deyoung

Today

Allan Deyoung 2:15 PM @ Hi Alex Wilber, How are you doing?

2:17 PM Hello Allan Deyoung, Yeah, I am doing good. Thank You

Allan Deyoung 2:18 PM Good to hear! Yeah, just validating 'Information Barrier' Policy

2:21 PM Ok Allan Deyoung

Administrator has disabled chat for this user

Disabled chat (1)

The screenshot shows a Microsoft Teams chat window. The title bar indicates it's an InPrivate session with Allan Deyoung. The left sidebar has a dark theme with icons for Activity, Chat (selected), Teams, Calendar, Calls, Files, and Help. The main area shows a conversation with Allan Deyoung. The message history includes:

- Allan Deyoung (30/04 11:59 PM Edited): Checking for updates on IB Policy
- 1 May 2020
- Allan Deyoung (01/05 12:00 AM): You Ok Allan Deyoung
- Today
- Allan Deyoung (2:15 PM): Hi **Alex Wilber**, How are you doing?
- 2:17 PM: Hello Allan Deyoung, Yeah, I am doing good. Tha
- Allan Deyoung (2:18 PM): Good to hear! Yeah, just validating 'Information Barrier' Policy
- Administrator has disabled chat for this user (highlighted in red)
- Message input field with various icons at the bottom

Disabled chat (2)

The screenshot shows a Microsoft Teams chat window for user Allan Deyoung. The window title is "Allan Deyoung | Microsoft Teams". The URL in the address bar is https://teams.microsoft.com/_/#/conversations/19:af378e72-9c00-4f70-be29-265597b13566_fa272734-8a2c-427e-a595-58f0b4a69e30@unq.gbl.spaces?ctx=chat. The search bar at the top says "Search for or type a command". The left sidebar shows "Chat" selected, with recent conversations listed: "IB Group" (MOD: Hi All I will be updating on Retails front o...) and "Allan Deyoung" (You: Ok Allan Deyoung). The main area shows a conversation with Allan Deyoung. Allan Deyoung's messages are in white boxes with a blue border, and the other person's messages are in light blue boxes with a dark blue border. Allan Deyoung's messages include:

- 30/04 11:59 PM Edited
Checking for updates on IB Policy
- 1 May 2020
Today
- 2:15 PM @
Hi **Alex Wilber**,
How are you doing?
- 2:17 PM
Hello **Allan Deyoung**,
Yeah, I am doing good. Thank You
- 2:18 PM
Good to hear!
Yeah, just validating 'Information Barrier' Policy
- 2:21 PM
Ok Allan Deyoung

A red box highlights a message at the bottom of the conversation:
Administrator has disabled chat for this user

Add members to a Team

Add members to IBTeam1

Start typing a name, distribution list, or security group to add to your team. You can also add people outside your organization as guests by typing their email addresses.

Add

Something went wrong. [Retry all](#)

	Adele Vance (ADELEV) Retail Manager Unable to add user due to IT admin settings. Learn more	Retry X
	Debra Berger (DEBRAB) Administrative Assistant	Member ▼ X

[Close](#)

Roles

- Microsoft 365 global administrator
- Office 365 global administrator
- Compliance administrator
- IB Compliance Management

Licenses

- Microsoft 365 E5/A5 subscription (paid or trial version)
- Office 365 E5/A5/A3/A1 subscription (paid or trial version)
- Office 365 Advanced Compliance add-on (no longer available for new subscriptions)
- Microsoft 365 E3/A3/A1 subscription + the Microsoft 365 E5/A5 Compliance add-on
- Microsoft 365 E3/A3/A1 subscription + the Microsoft 365 E5/A5 Insider Risk Management add-on

The background image shows a panoramic aerial view of the Paris skyline during sunset. The Eiffel Tower stands prominently in the foreground, its silhouette against the warm orange and yellow hues of the sky. In the distance, the modern La Défense business district is visible, featuring several distinctive skyscrapers. The city's dense urban sprawl, with its mix of historic and modern architecture, stretches across the horizon under a clear sky.

Information Barriers v2

Information Barriers v2 - New features

Microsoft Purview [Information Barriers](#) v2 (IB v2) is now generally available for all new onboarding customers.

IB v2 has enhanced architecture which enables the following new features:

- Large-scale segment support: The segment limit in organizations has increased to 5,000.
- Multi-segment support: Users can be assigned to up to 10 segments.
- Flexible user discoverability: Organizations can now choose to allow IB-protected users to discover each other while adhering to IB communication and collaboration policies.

Information Barriers v2 - Links

- Mar 6th, 2023: Information Barriers v2 is now generally available for all new onboarding customers

<https://techcommunity.microsoft.com/t5/security-compliance-and-identity/information-barriers-v2-is-now-generally-available-for-all-new/ba-p/3757781>

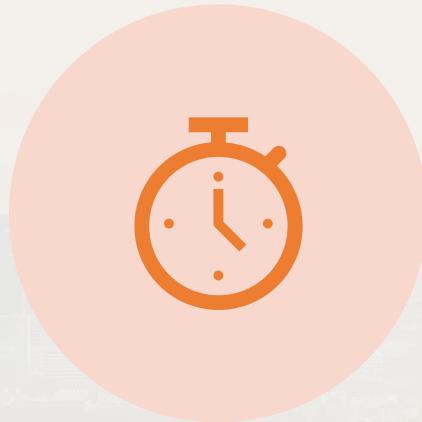
- Use multi-segment support in information barriers

<https://learn.microsoft.com/en-us/microsoft-365/compliance/information-barriers-multi-segment?view=o365-worldwide>

Lessons learned



**DOUBLE CHECK THE
REQUIREMENTS**



**TAKE YOUR TIME FOR
SETUP**



**THINK AND DEFINE
SEGMENTS
PROPERLY**

Useful links

- Information Barriers & Get started
<https://docs.microsoft.com/en-us/microsoft-365/compliance/information-barriers?view=o365-worldwide>
- Use information barriers with SharePoint
<https://docs.microsoft.com/en-us/sharepoint/information-barriers>
- Use Information Barriers with OneDrive
<https://docs.microsoft.com/en-us/onedrive/information-barriers>
- Configuration Excel Workbook
<https://github.com/MicrosoftDocs/OfficeDocs-O365SecComp/raw/public/SecurityCompliance/media/InfoBarriers-PowerShellGenerator.xlsx>
- Sample scripts
<https://docs.microsoft.com/en-us/microsoftteams/information-barriers-mode-script>
- Presentation and script
<https://github.com/martinagrom/InformationBarriers>

Merci pour
votre
attention !

*Thanks
for your
attention!*

