5 Data Leaks to Plug In Microsoft Teams

Hunter Willis and Tom Gawczynski

Microsoft Partner

Microsoft

Gold Application Development
Gold Collaboration and Content
Gold Cloud Productivity
Gold Messaging
Gold Datacenter

Collaborate with Confidence

Accessible content is available upon request.

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Leader in Microsoft 365 data management solutions

AvePoint is headquartered in Jersey City, NJ, with approximately 1,500 employees across 29 offices, 14 countries, and five continents.

25%
Fortune 500

7M
Cloud Users

88
Countries

7
Continents

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Agenda

What are we talking about today?

1. Introduction: Sharing is caring (about getting it done!)
2. Anonymous and org wide sharing links
3. Sensitive data needle in the haystack
4. Unmanaged external users
5. Overprivileged and shadow users
6. Teams sprawl and configuration drift

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About the Presenters

Hunter Willis

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President, Richmond SharePoint User Group

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VP, Solution Engineering
Chicago

AvePoint®

Policies & Insights

For Microsoft 365

Sharing is caring…
(about getting it done!)

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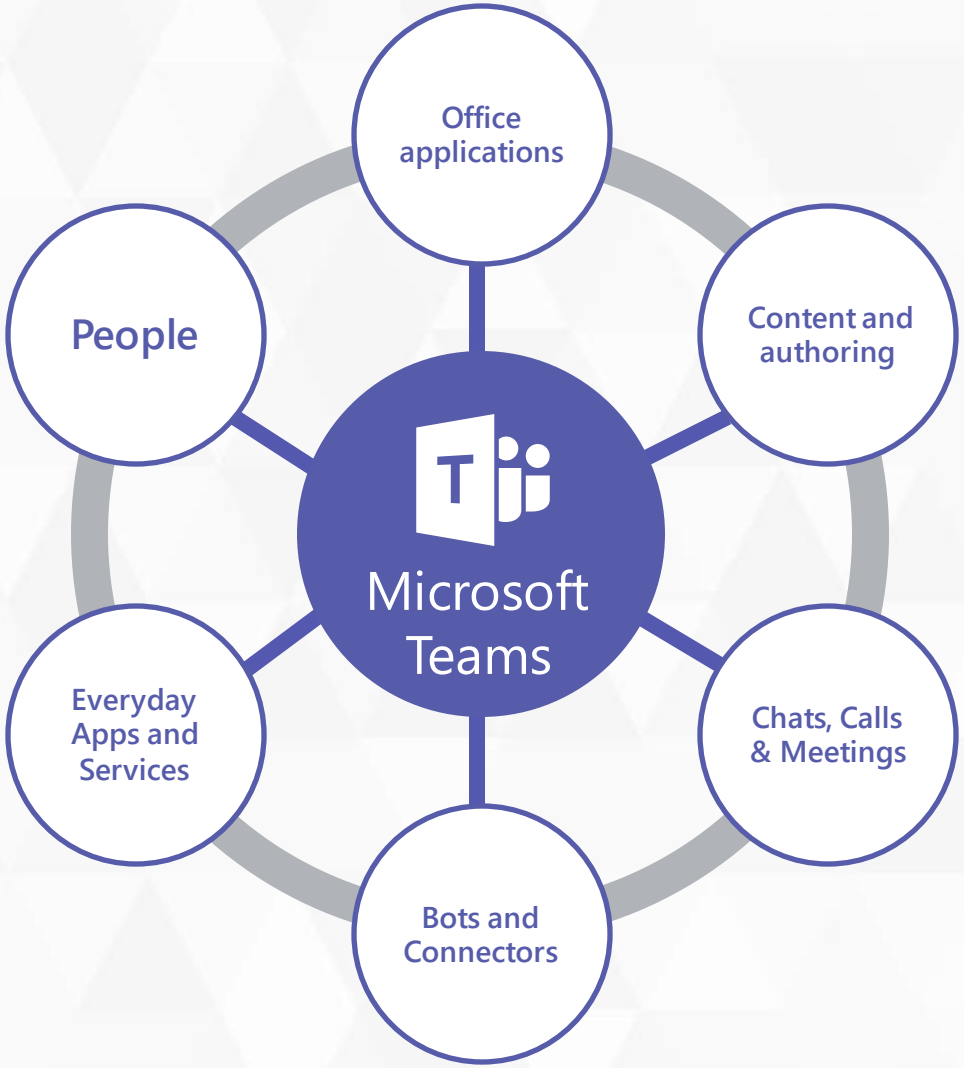
Microsoft Teams – The Hub for Teamwork



Communicate: Chat, calls & meetings for today's teams

Collaborate: Deeply integrated Office 365 apps

Customize & Extend: 3rd party apps & existing systems

Work w/ Confidence: Enterprise security, compliance & manageability

Office 365 Groups = Membership Service

Attributes

One identity
Azure AD is the master for group identity & membership

Federated resources
Office 365 services extend with their data

Loose coupling
Service notify each other of changes to a group

Flow

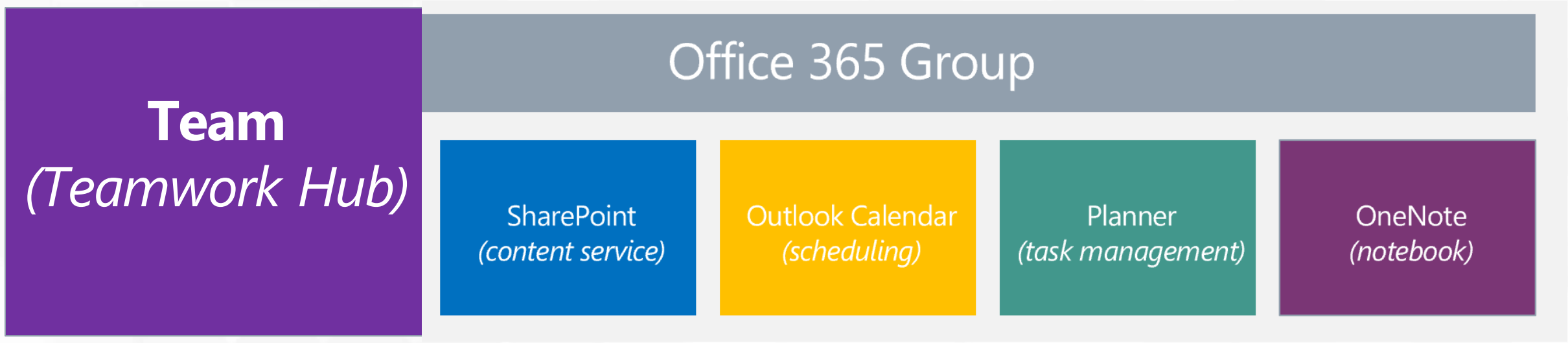
User creates new group for teamwork → Group identity created in Azure Active Directory → Group experience populated in app of choice

Apps

Azure AD

Outlook | Teams | StaffHub
SharePoint | Planner | Dynamics CRM
Yammer | Stream | Power BI

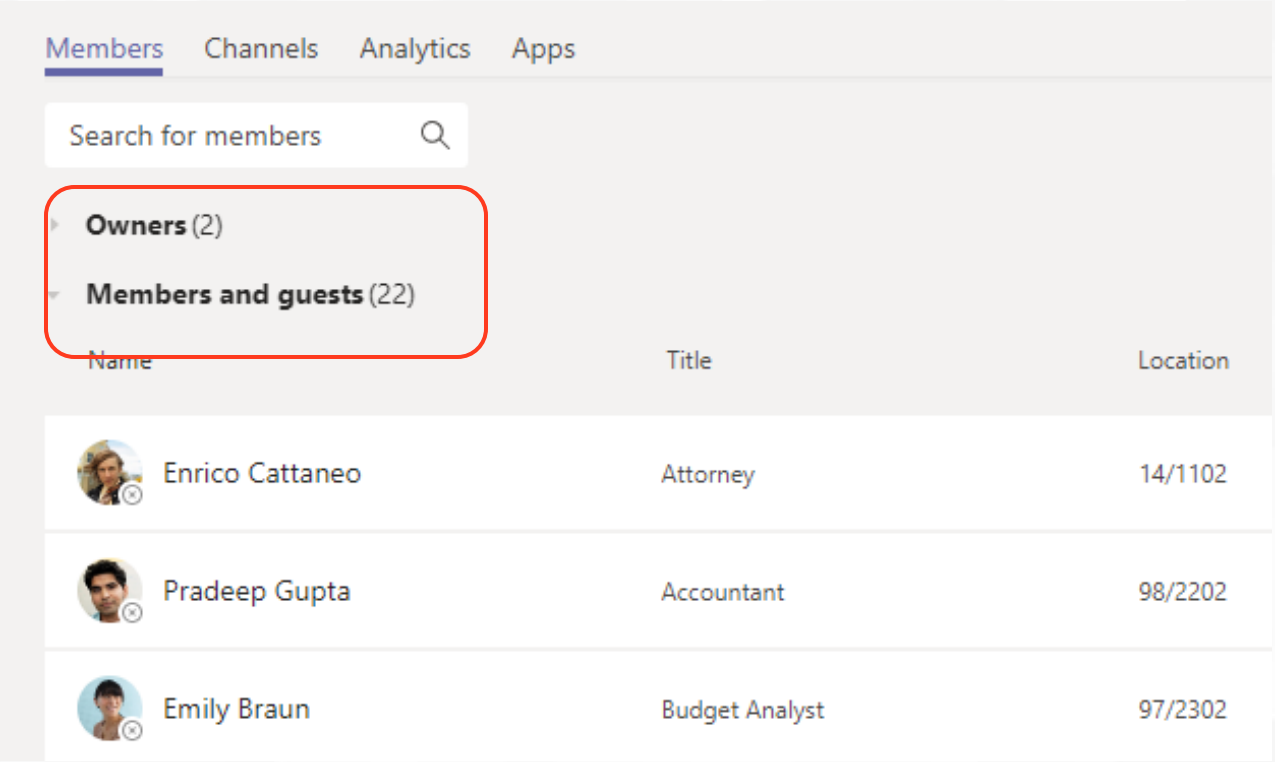
Many ways to create a Team …

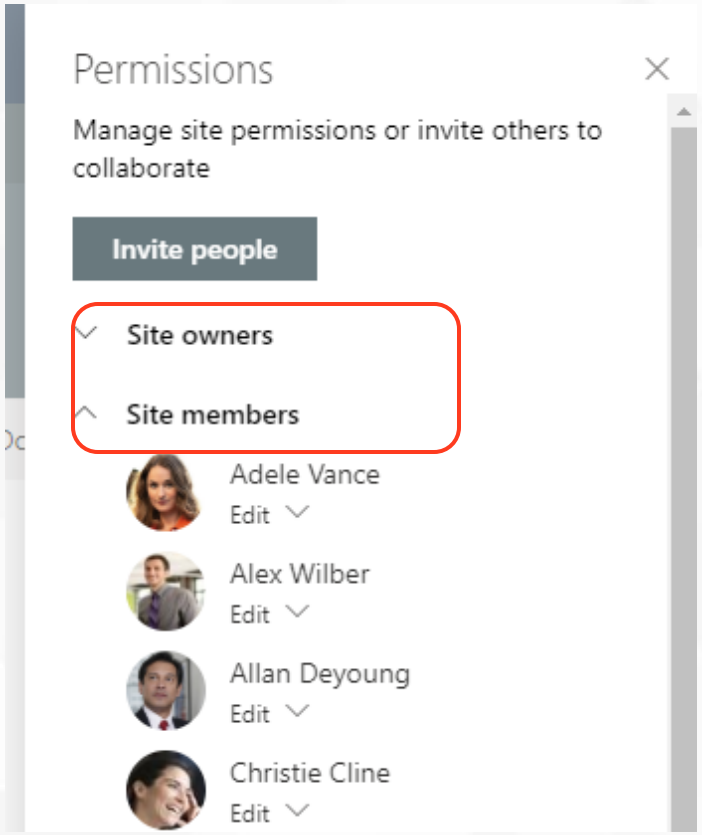


Where is my source of truth for “who has access”?

Teams, Groups, Sites, oh my…

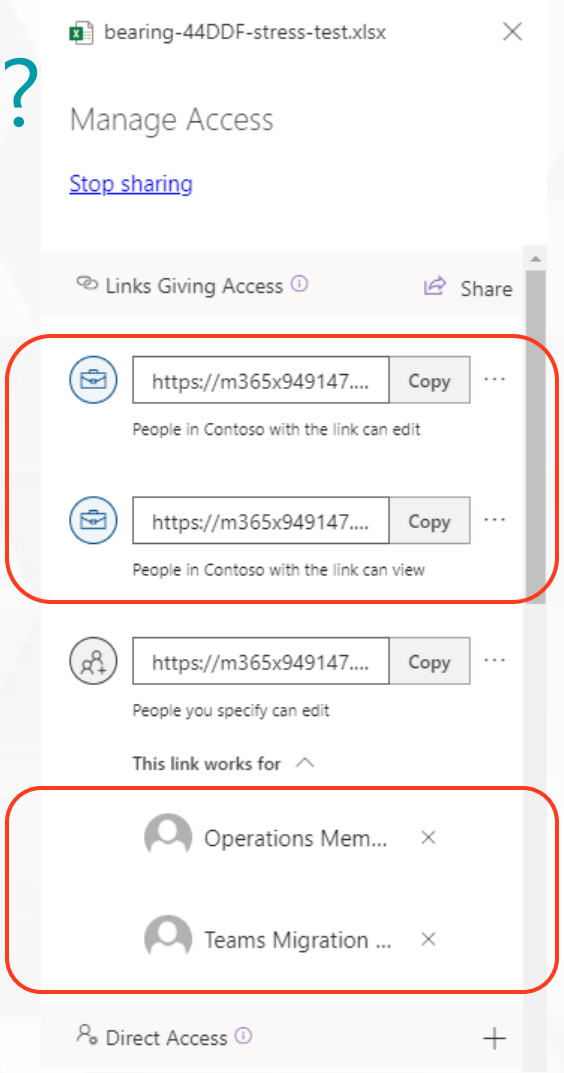
Teams vs. SharePoint access… The same, right?!





Where is my source of truth for “who has access”?

The files say… ?

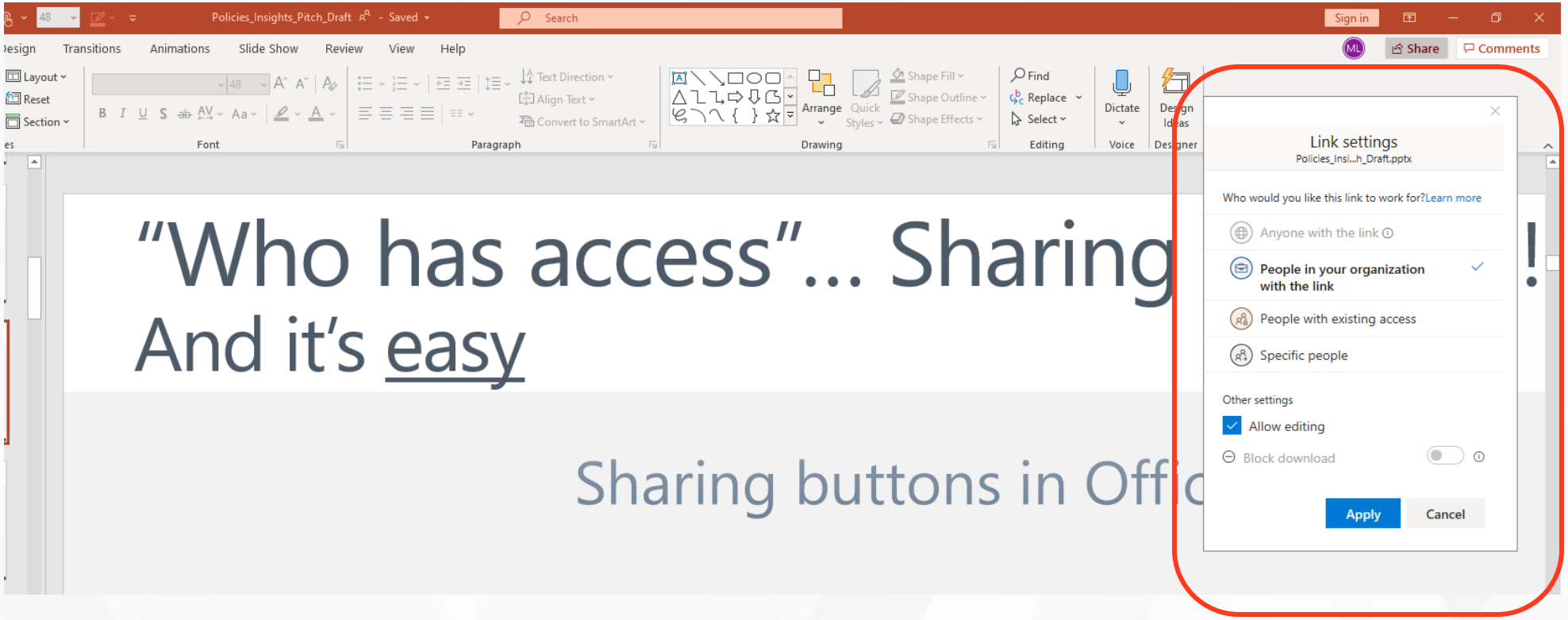


Where were these links pasted?

Who is/was in these groups?

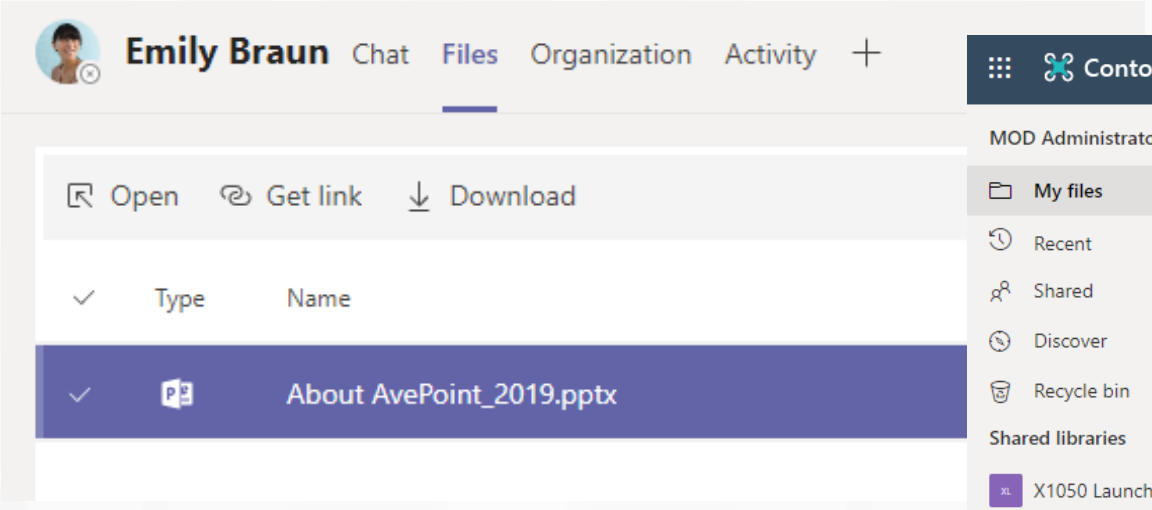
“Who has access”… Sharing is easy

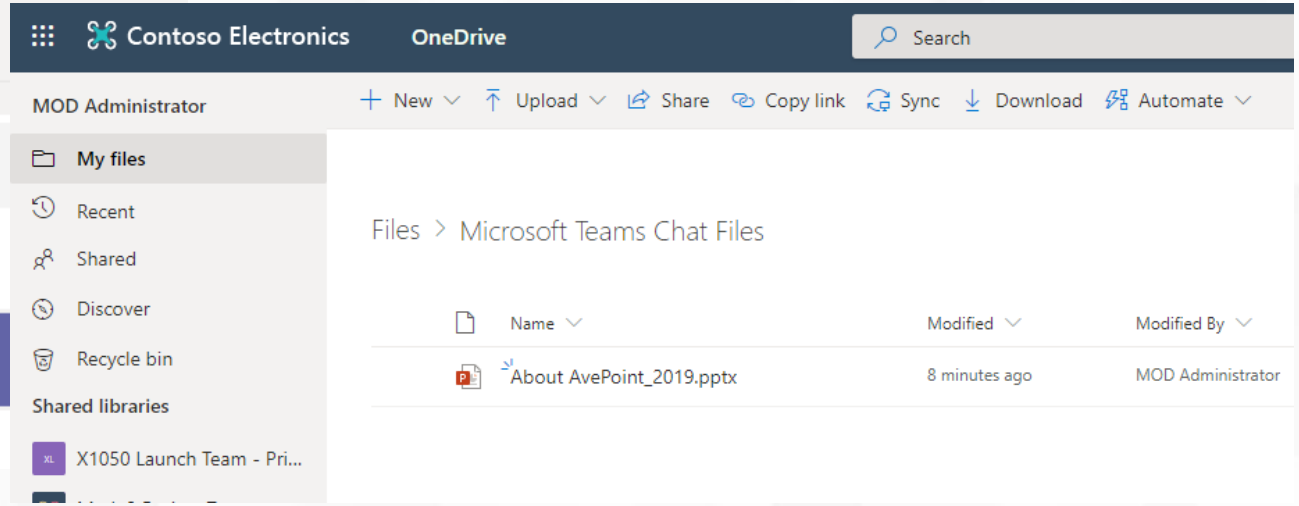
Sharing buttons in Office Apps… Sharing is Caring!



“Who has access”… Sharing is easy!

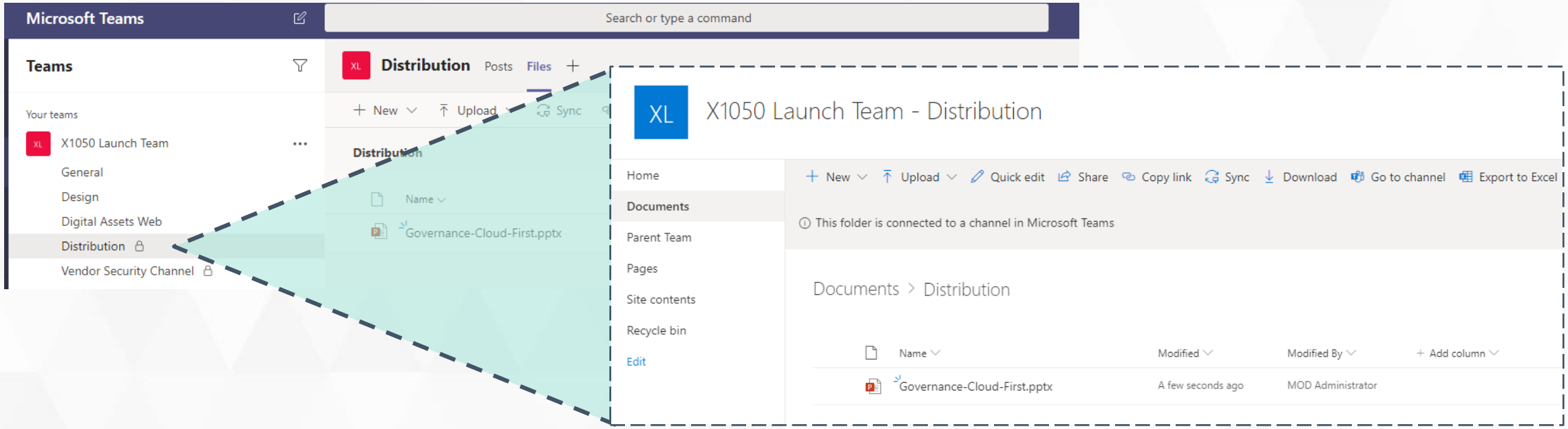
One Drive: Teams 1-1 and Office App





“Who has access”… Sharing is easy

Private Channels in Teams



SECURE COLLABORATION MADE EASY WITH PI

Find and prioritize
what matters

Monitor and fix
exposure hot spots

Enforce and prevent
security risks overtime

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Anonymous and Org Wide Sharing Links

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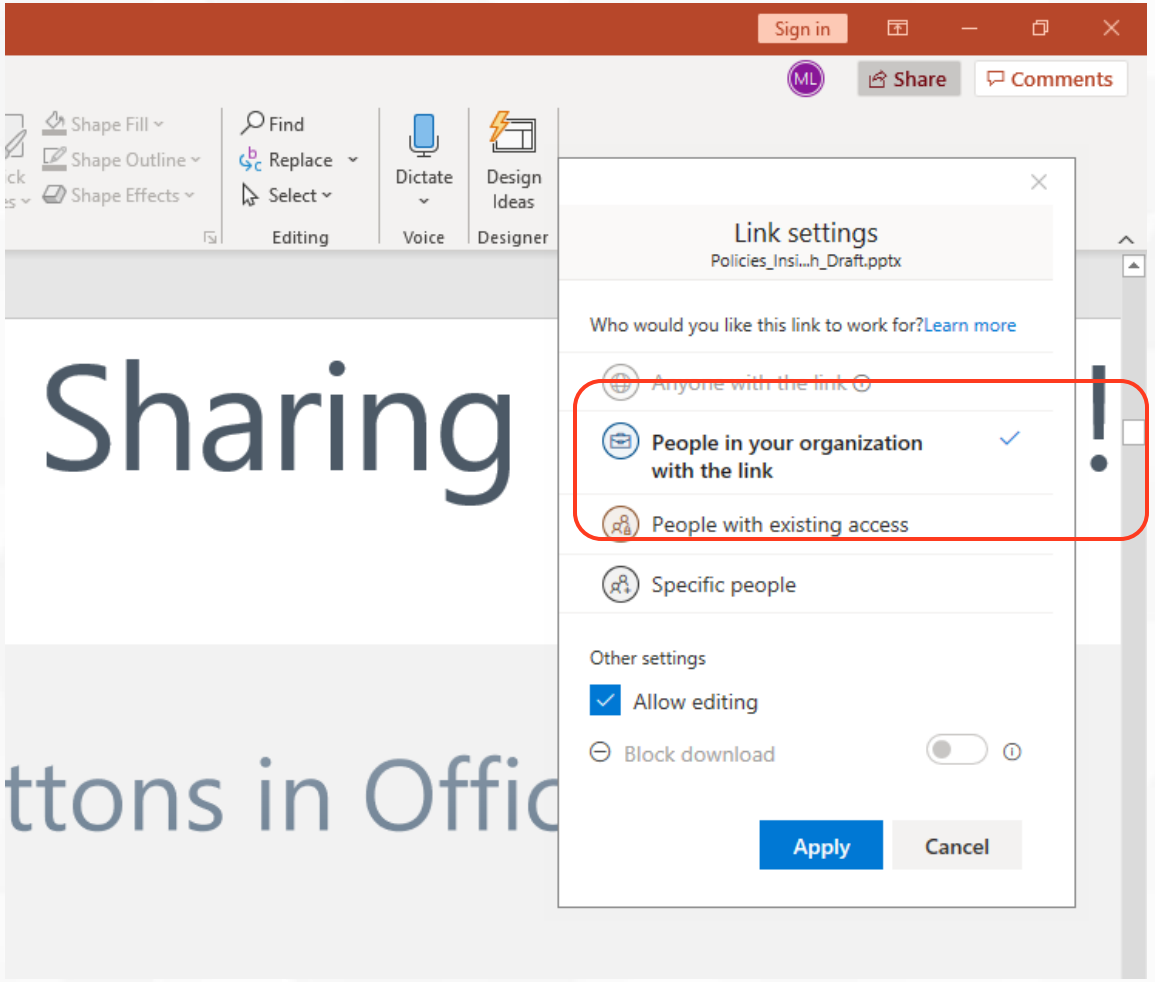
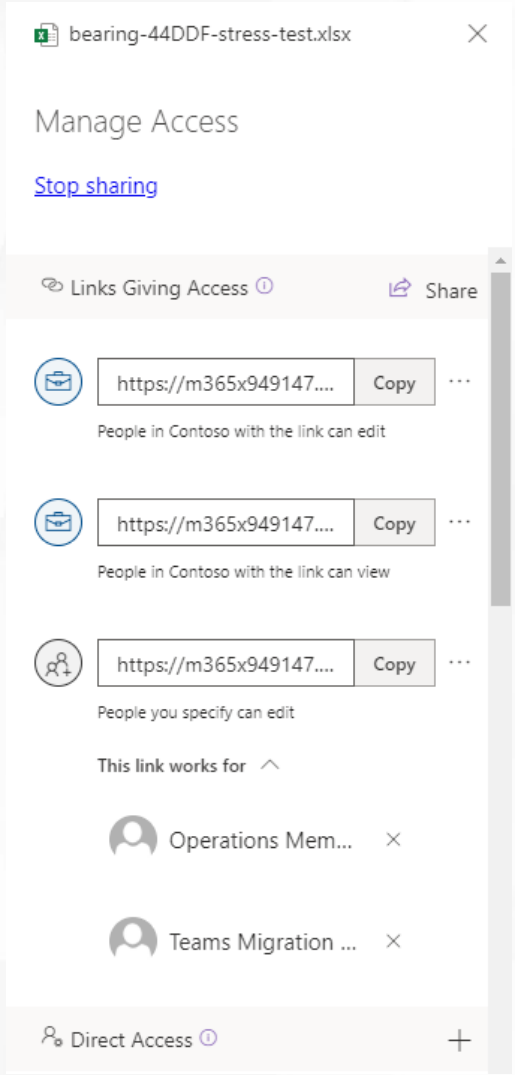
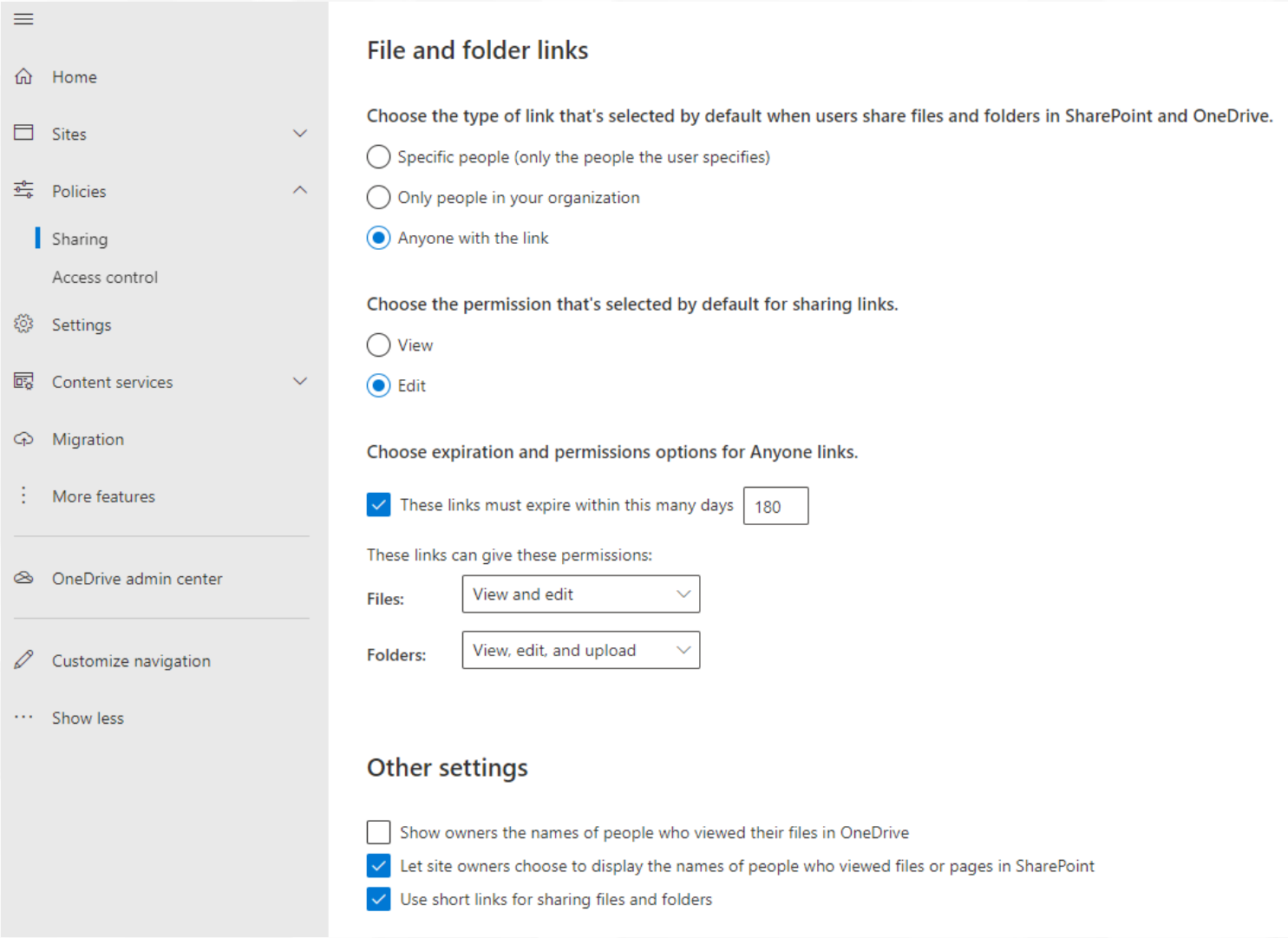
Where is my source of truth for “who has access”?





Native O365 sharing links…



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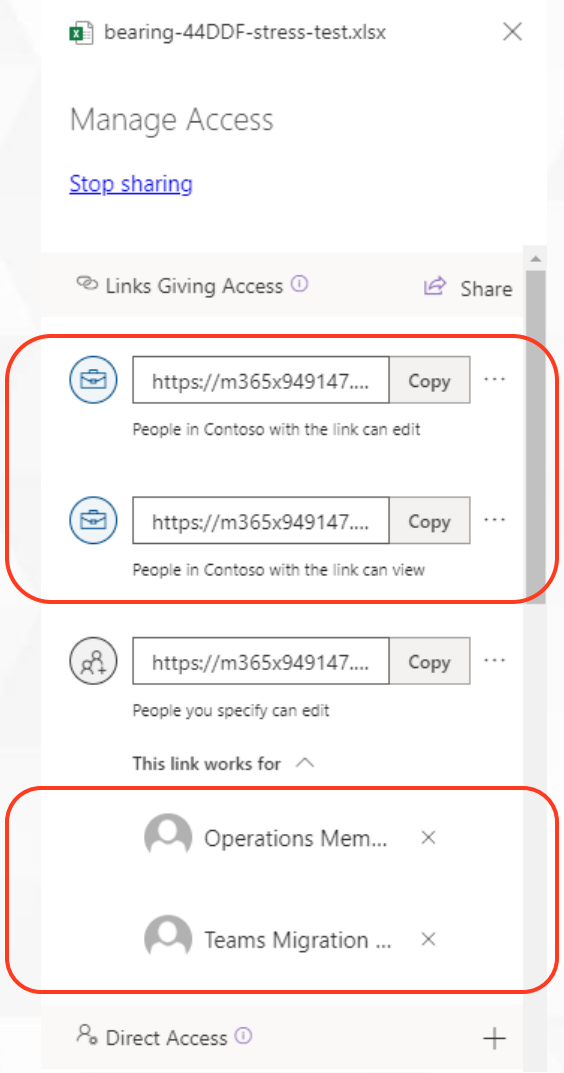


Where were these links pasted?

Who is/was in these groups?

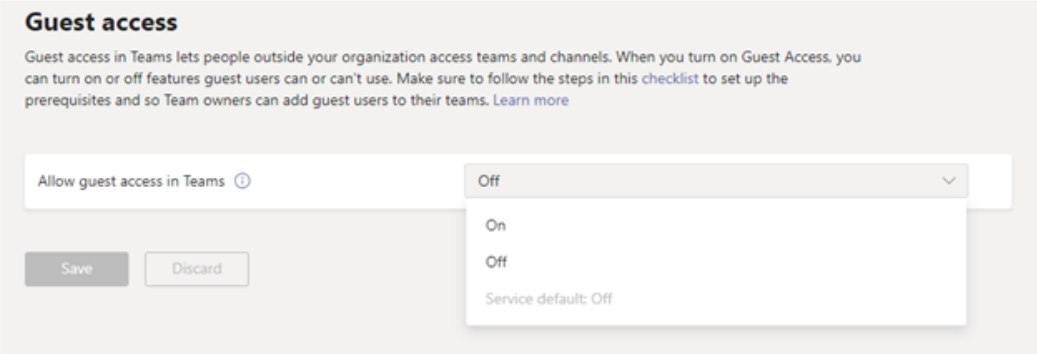
External sharing on by default

Simplify an inclusive meeting experience by enabling Guest access as the default

We want to make everyone aware of an upcoming change to the default setting for Guests in Microsoft Teams. With the large increase in organizations looking to use Teams to expand collaboration beyond the boundaries of their tenant, we want to make it easier for customers to get started. This has also been announced in Message Center post MC234252.

As a result, starting on February 8th we are turning on Guest access in Microsoft Teams by default for any customers who have not already configured this setting. This will bring the control for Teams Guest capability into alignment with the rest of the suite, where the setting is already on by default.
When this change is implemented, if you have not already configured Guest access capability in Microsoft Teams, that capability will be enabled in your tenant. With guest access enabled, you can provide access to teams and other resources to people outside your organization while maintaining control over your corporate data.

Prior to this change taking effect beginning on February 8th, if you want Guest access to remain disabled for your organization, you will need to confirm that the Guest access setting is set to "Off" instead of "Service default". Instructions for how to configure the Teams guest access settings can be found here:
Teams guest access settings



A view of Teams admin center Guest access page, showing the choices for Guest access being "Off", "On", and "Service default". Currently the service default is off but beginning February 8th the service default will be "On".

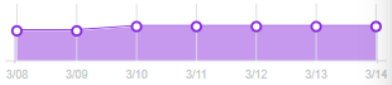
Understanding sharing links with AvePoint

Contributing Factors — Last 7 Days

External Users

8

↑ 1



Direct Access Sharing

Shared With	Sensitive It
Everyone	20
Everyone except External Users	85
External User	19
Anonymous Link	14
Links for Specific External Users	1

Summary

Microsoft Teams

154

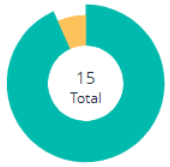
Total Teams

Exposure / External Links

All Workspaces | 03/14/2021 20:43:05

Total

Show all objects with inherited permissions from parent-level sharing links



Link Type	Number of Links
Anonymous Link	14
Links for Specific External Users	1

Quick Filter

Link Type	Sensitivity Level	Block Download	Permission
☑ Anonymous Link	☑ Low	☐ Yes	☐ View
☐ Links for Specific External ...	☑ Medium	☐ No	☐ Edit
	☑ High		
	☐ N/A		

Clear All | Apply

Unshare

8 columns selected

Name	Shared By	Shared With	Inherit From	Permission	Created	Expiration Date	Block Download	Sensitivity Level
UDE Names.docx		Anonymous Link	Unique	Edit	03/12/2021 09:25:22	04/11/2021	No	Medium
UDE CC External Vendors.docx		Anonymous Link	Unique	Edit	02/17/2021 10:00:44	03/19/2021	No	Medium
UDE PI External NA Vendors.docx		Anonymous Link	Unique	Edit	09/01/2020 17:54:47	10/01/2020	No	Medium
Alpha_CG_EDS.docx		Anonymous Link	Unique	Edit	08/17/2020 07:22:22	09/16/2020	No	High
contoso proof of concept sow.docx		Anonymous Link	Unique	Edit	08/04/2020 10:10:32	09/03/2020	No	High
Alpha_Governance-EDS.docx		Anonymous Link	Unique	Edit	08/04/2020 10:10:01	09/03/2020	No	High
1534767935.zip		Anonymous Link	Unique	Edit	09/11/2018 23:29:17	10/11/2018	No	Medium
Client Data Points-2.docx		Anonymous Link	general	View		Never	No	Medium
LoanApplication_GK_ApplicantID2538.docx		Anonymous Link	general	View		Never	No	Medium
Alpha_CG_EDS.docx		Anonymous Link	Unique	View		Never	No	High

Sensitive data needle in the haystack

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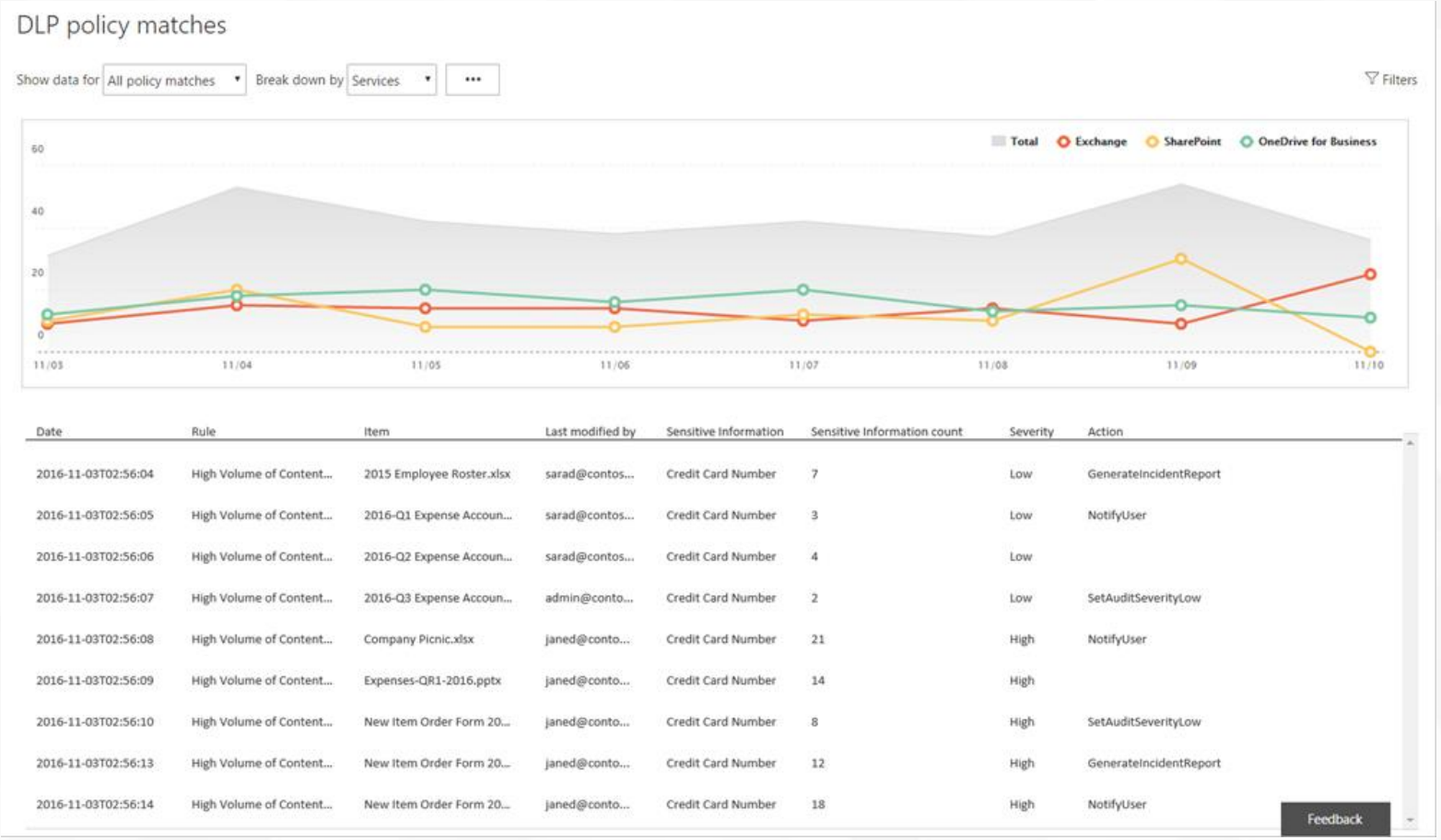
Sensitivity is prioritized by how much sensitive information is in one document, not exposure-

How do I know which of these documents is actually causing risk?



Date	Rule	Item	Last modified by	Sensitive Information	Sensitive Information count	Severity	Action
2016-11-03T02:56:04	High Volume of Content...	2015 Employee Roster.xlsx	sarad@contos...	Credit Card Number	7	Low	GenerateIncidentReport
2016-11-03T02:56:05	High Volume of Content...	2016-Q1 Expense Accoun...	sarad@contos...	Credit Card Number	3	Low	NotifyUser
2016-11-03T02:56:06	High Volume of Content...	2016-Q2 Expense Accoun...	sarad@contos...	Credit Card Number	4	Low	
2016-11-03T02:56:07	High Volume of Content...	2016-Q3 Expense Accoun...	admin@conto...	Credit Card Number	2	Low	SetAuditSeverityLow
2016-11-03T02:56:08	High Volume of Content...	Company Picnic.xlsx	janed@conto...	Credit Card Number	21	High	NotifyUser
2016-11-03T02:56:09	High Volume of Content...	Expenses-QR1-2016.pptx	janed@conto...	Credit Card Number	14	High	
2016-11-03T02:56:10	High Volume of Content...	New Item Order Form 20...	janed@conto...	Credit Card Number	8	High	SetAuditSeverityLow
2016-11-03T02:56:13	High Volume of Content...	New Item Order Form 20...	janed@conto...	Credit Card Number	12	High	GenerateIncidentReport
2016-11-03T02:56:14	High Volume of Content...	New Item Order Form 20...	janed@conto...	Credit Card Number	18	High	NotifyUser

With research we can try to find

Permissions Reports	Audit Reports	DLP Reports
An external user Tom has access to this Team.	A document has been accessed 10 times in the past month.	This Team contains sensitive information

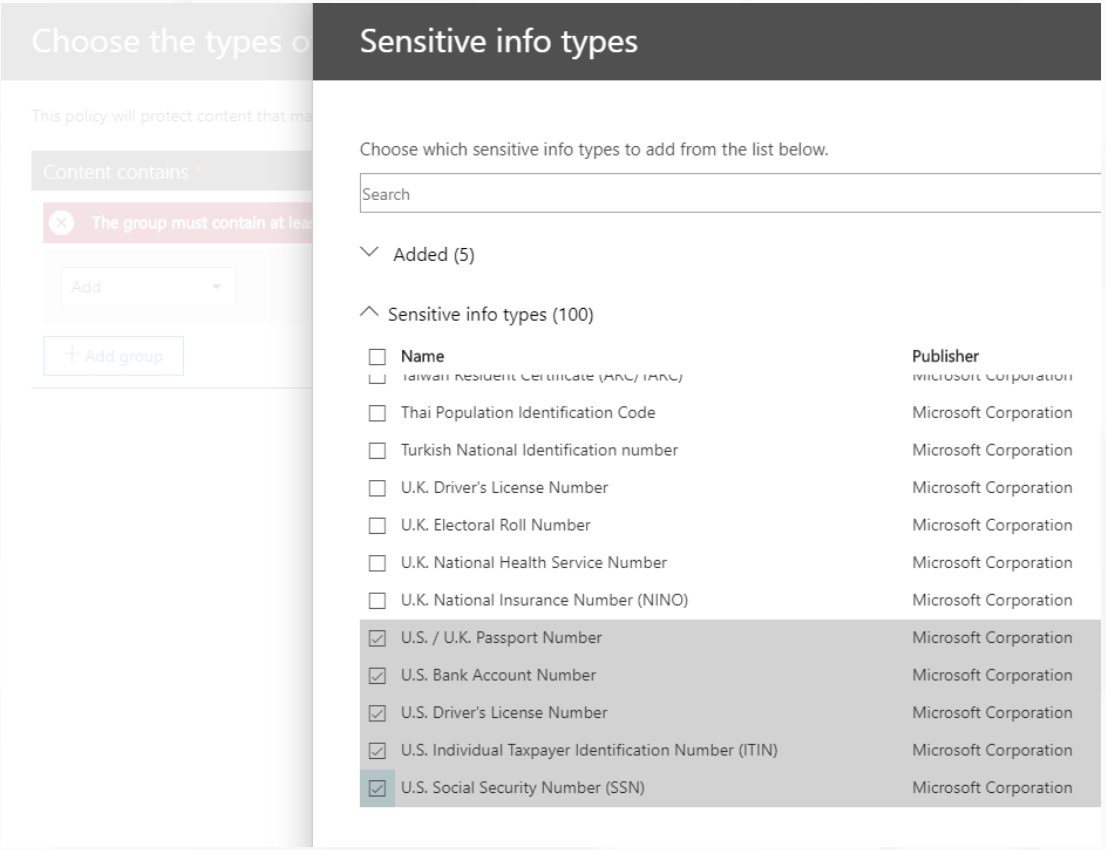
to

Tom, an external user, has access to confidential info and has accessed it 10 times this past month.

DLP Policy Options in O365

Over 100 sensitive information types to search in O365

With DLP Policies, you can scan everything or separate scans to applications (SPO, Teams etc.) and add specific sites to apply scans to as well.



New Definition

7 of 25 active

Input Keyword

	Name	Template	Country or Region	Status	
ON	U.S. Personally Identifiable Information (PII) Data	Privacy	United States of America	Active	•••
ON	U.S. Financial Data	Financial	United States of America	Active	•••
ON	U.S. Gramm-Leach-Bliley Act (GLBA)	Financial	United States of America	Active	•••
ON	U.S. Health Insurance Act (HIPAA)	Medical and Health	United States of America	Active	•••
ON	U.S. Federal Trade Commission (FTC) Consumer Rules	Financial	United States of America	Active	•••
ON	U.S. State Breach Notification Laws	Privacy	United States of America	Active	•••
ON	U.S. Patriot Act	Privacy	United States of America	Active	•••
OFF	Australia Financial Data	Financial	Australia	Inactive	•••
OFF	Australia Health Records Act (HRIP Act)	Medical and Health	Australia	Inactive	•••
OFF	Australia Personally Identifiable Information (PII) Data	Privacy	Australia	Inactive	•••

10 of 25 items are displayed

1 2 3 1 Go Show Rows 10

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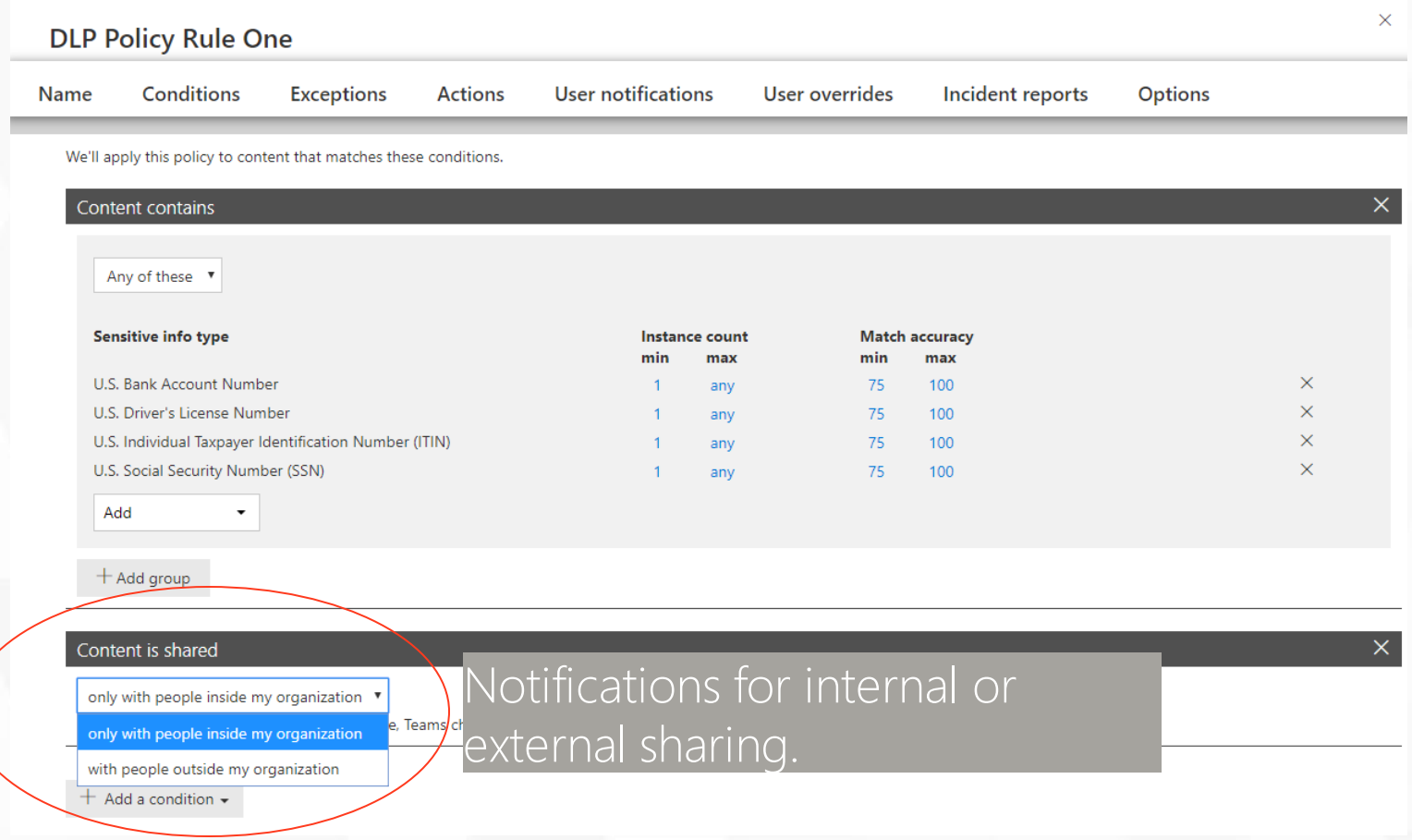
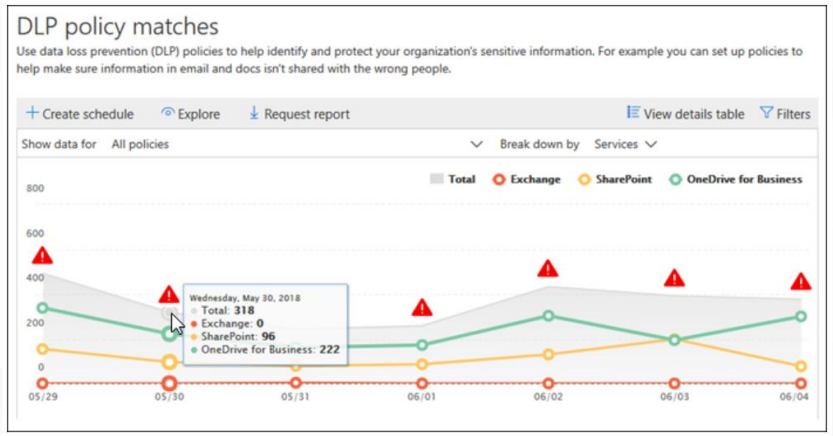
Finding sensitive information in M365 (E3)



Notifications for internal or external sharing.

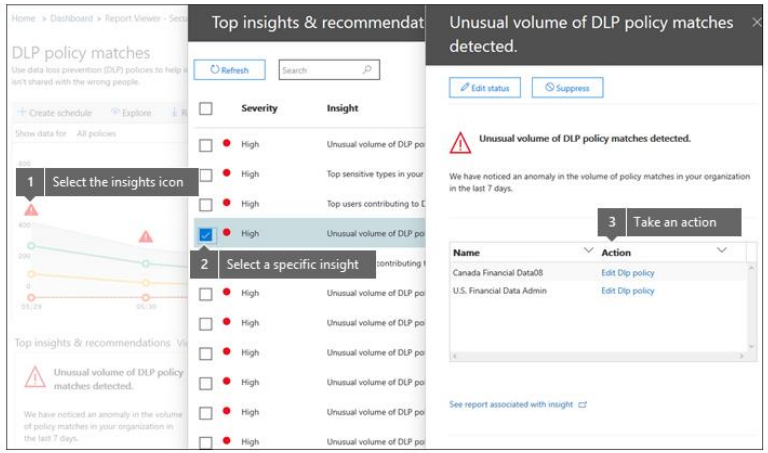
DLP Policies allow for notifications, as well as visibility into where sensitive content exists.

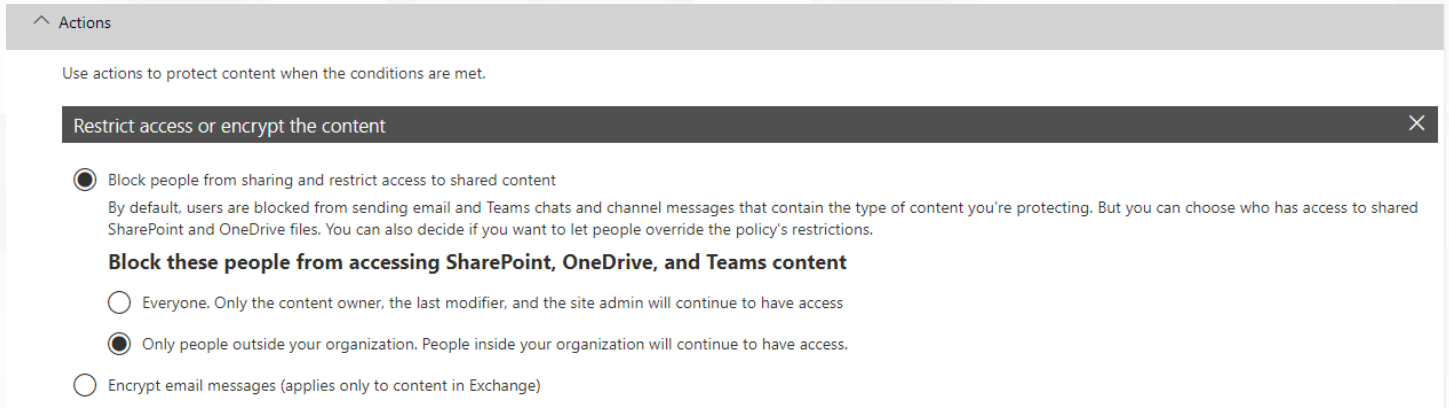


Taking actions (E3)

Take action on insights and recommendations

Reports can show insights and recommendations where you can click the red warning icon to see details about potential issues and take possible remedial action.

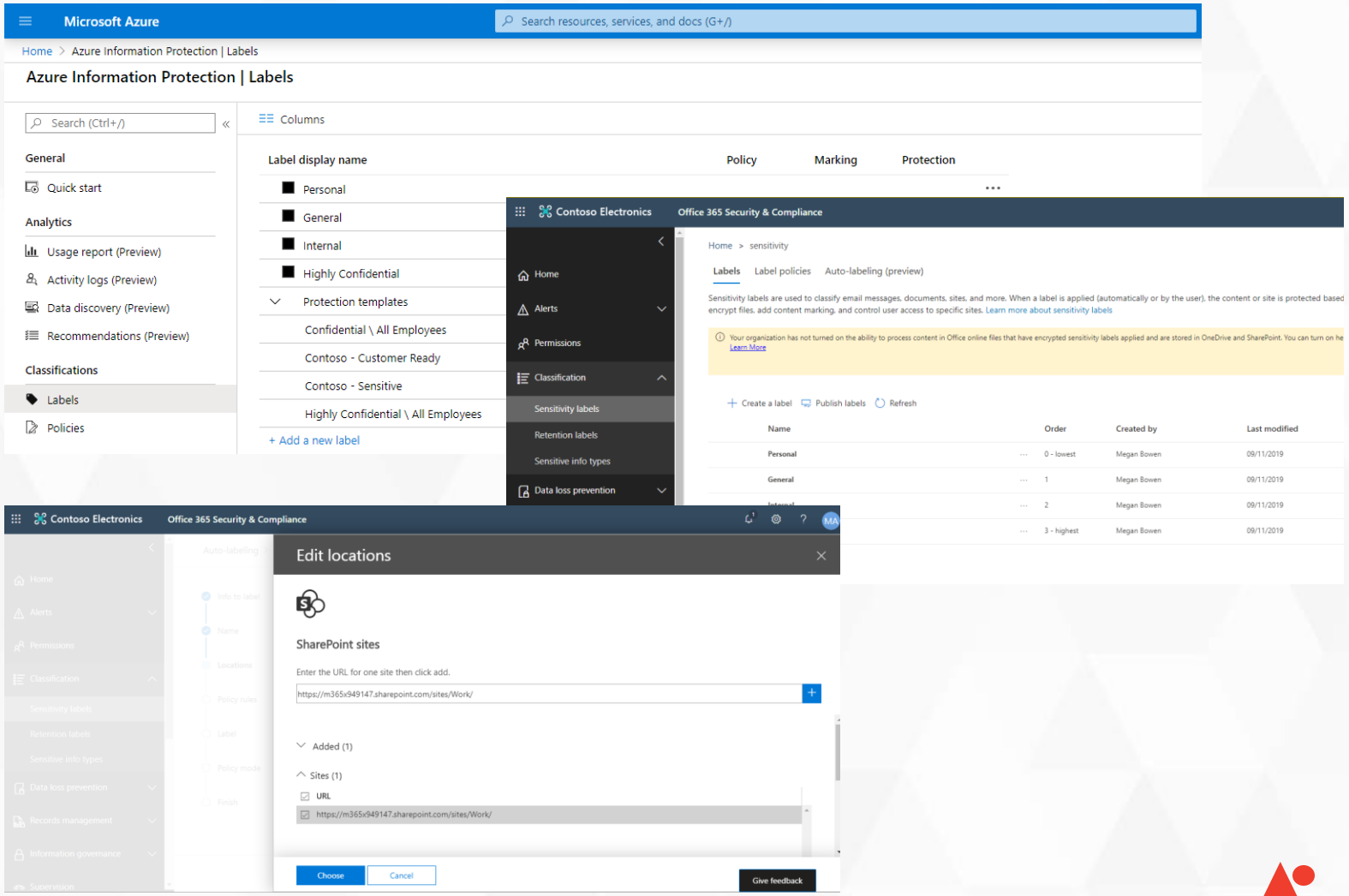




- Review results to reduce false positives
- Restrict access to internal or external users.

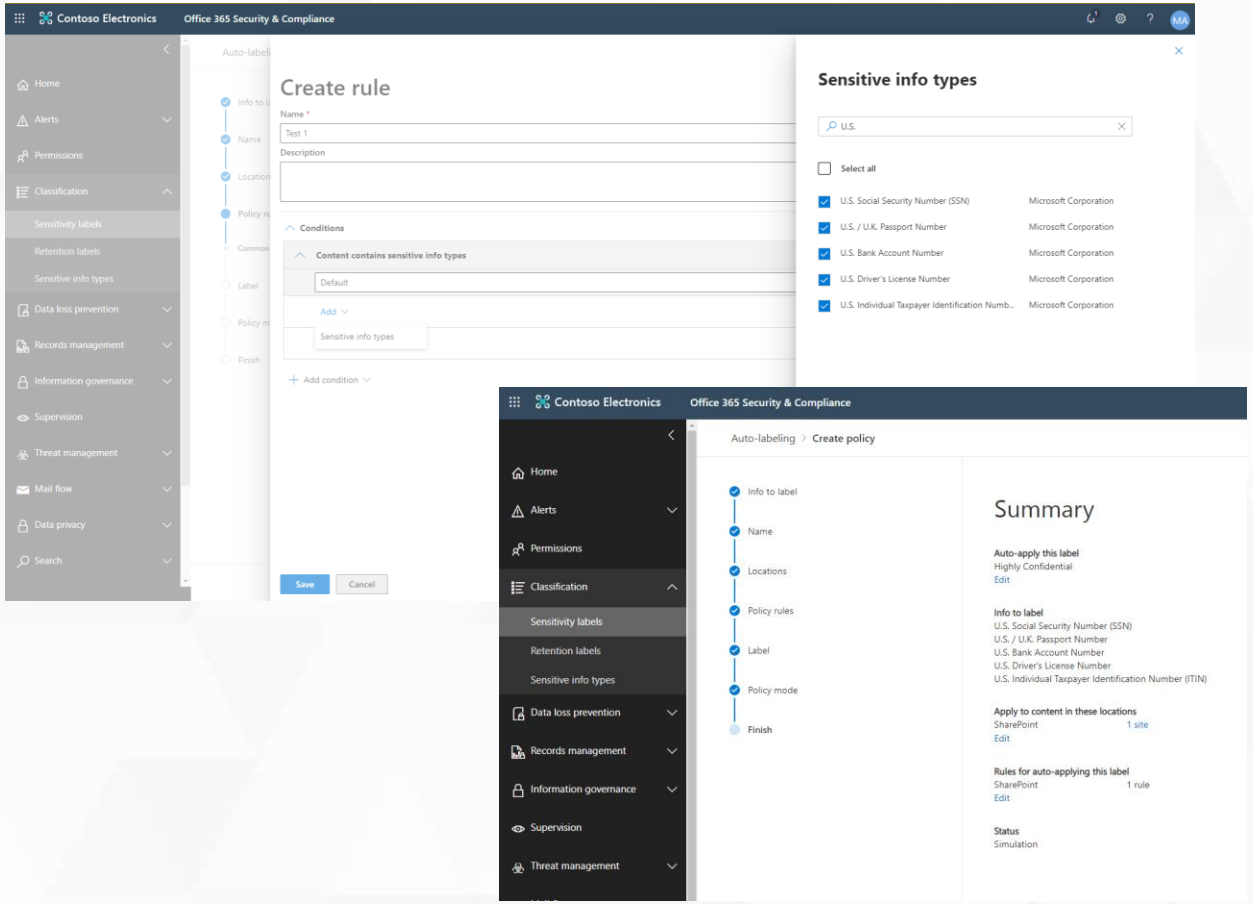
Automatically apply sensitivity labels (E5)

AIP Labels and O365 Sensitivity tags can help you apply policies to sites by manually adding each site..



Applying Sensitivity labels (E5)

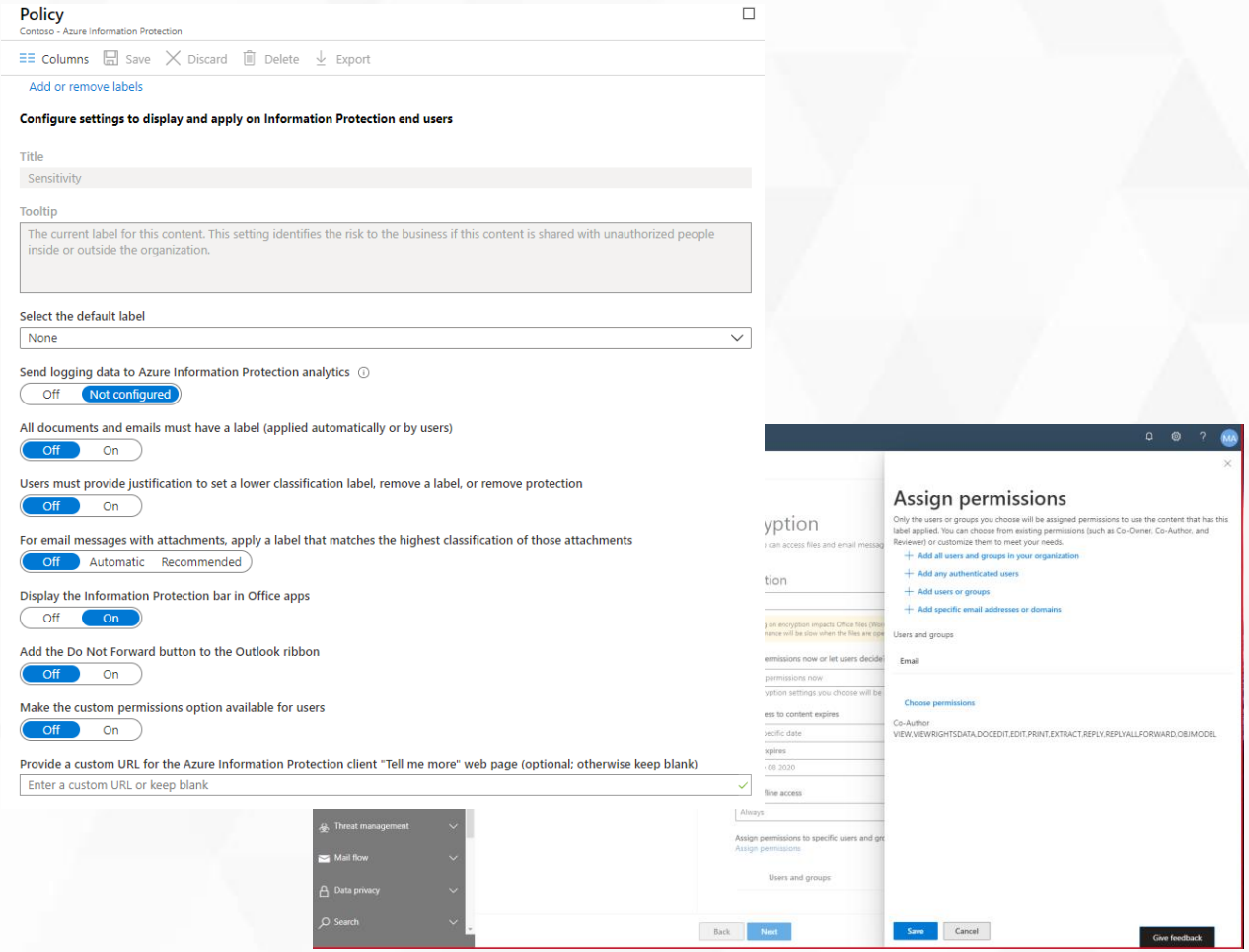
After choosing locations and creating the label, apply the sensitive info types to the label.



Enforcing AIP/Sensitivity Label Security

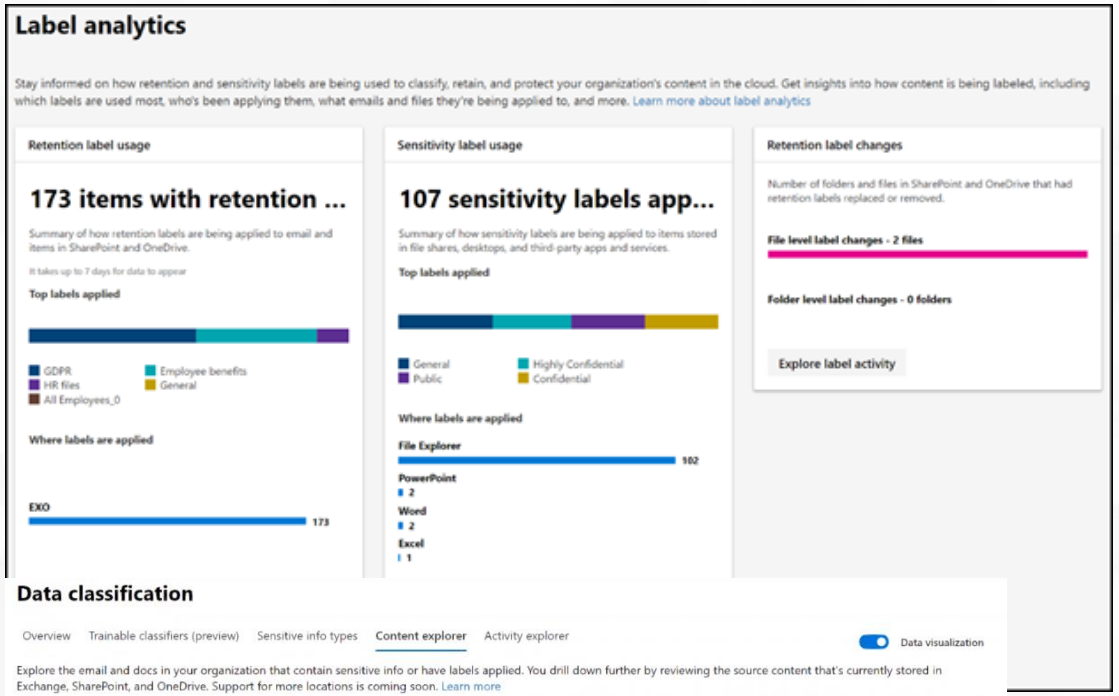
Generally enforcing against external sharing or emailing can be accomplished in the S&C center in O365.

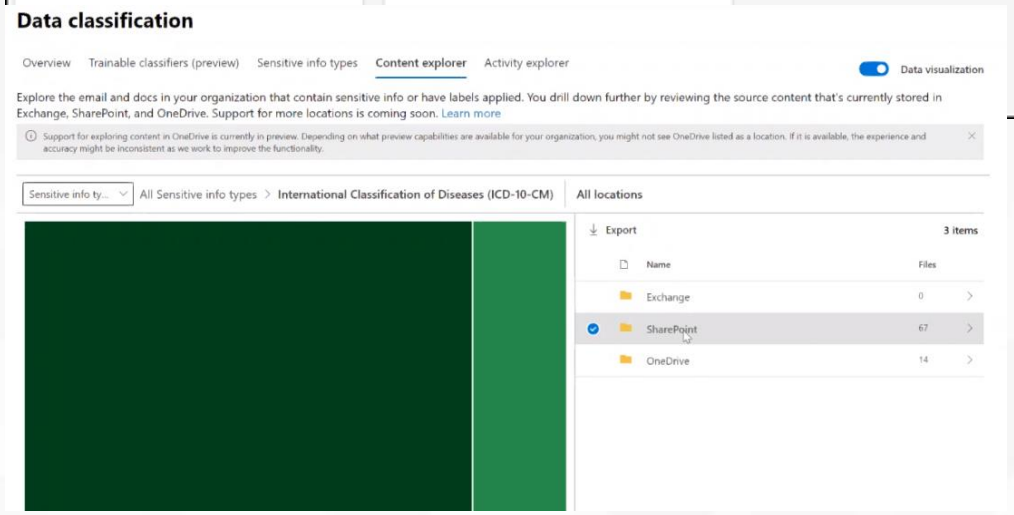
To force Sensitivity Labels and restrict custom sharing requires AIP P2, and is configured through Azure AD or the Admin portal.



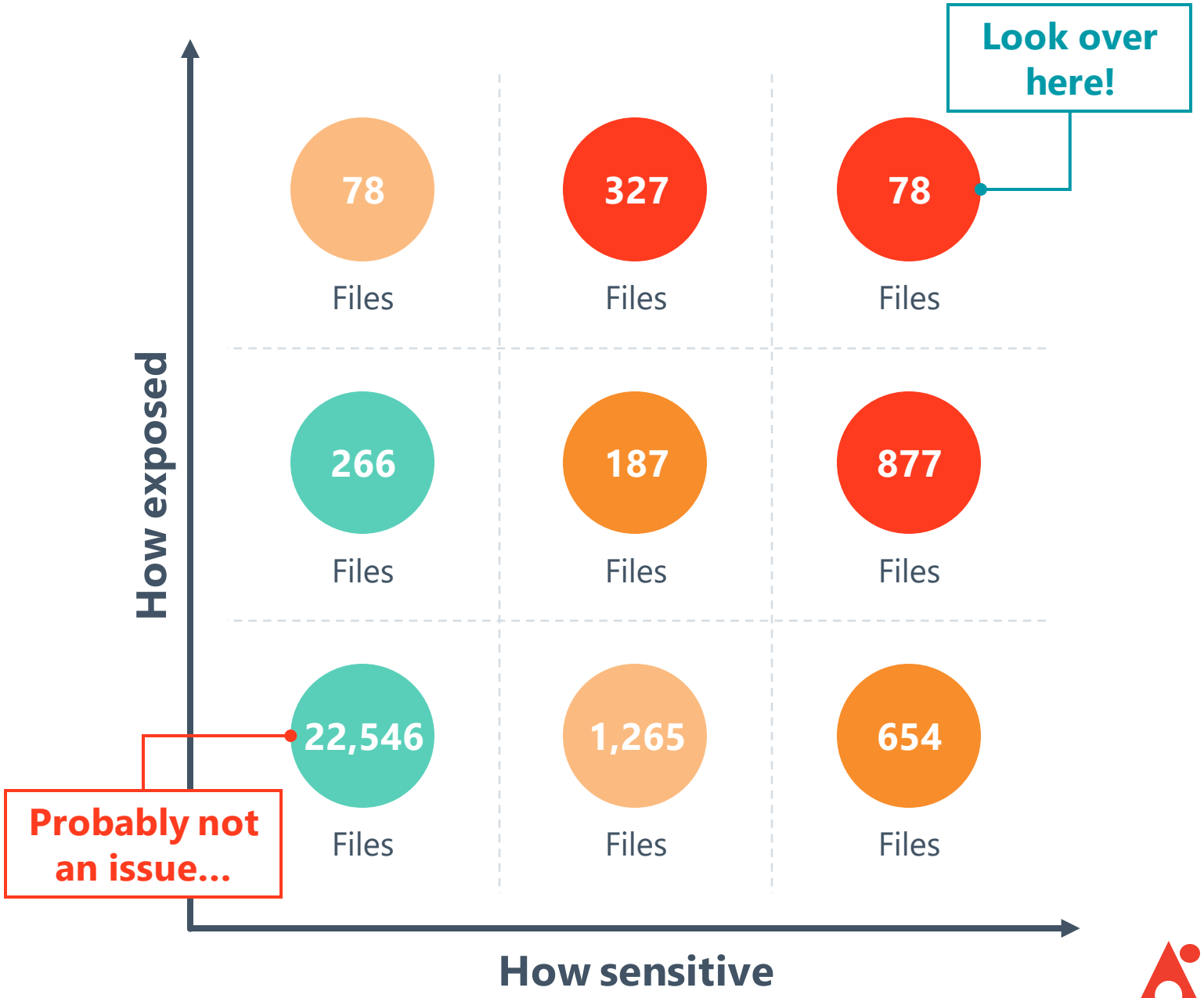
Label Analytics (E5, public preview)

Label analytics can show you some usage and which applications have what kind of labels, but there is no way to distinguish between policies.

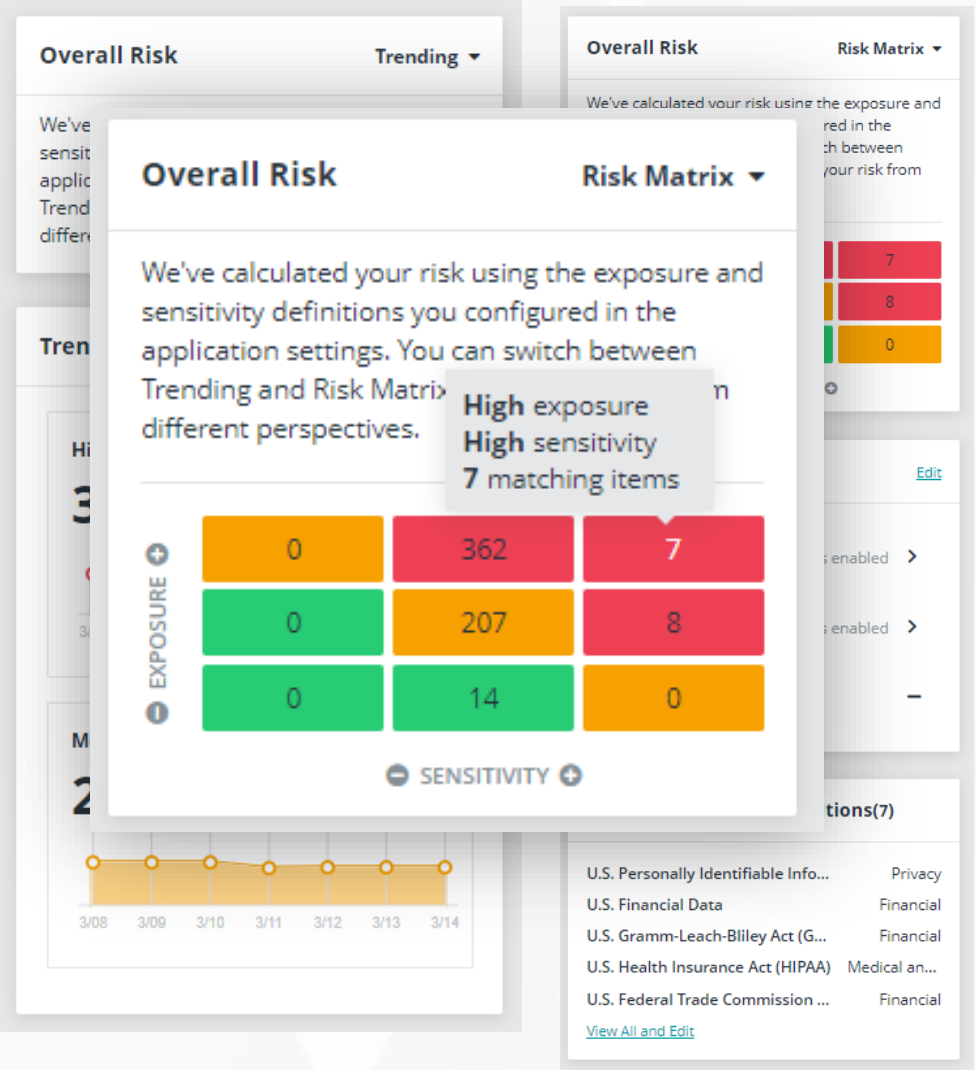


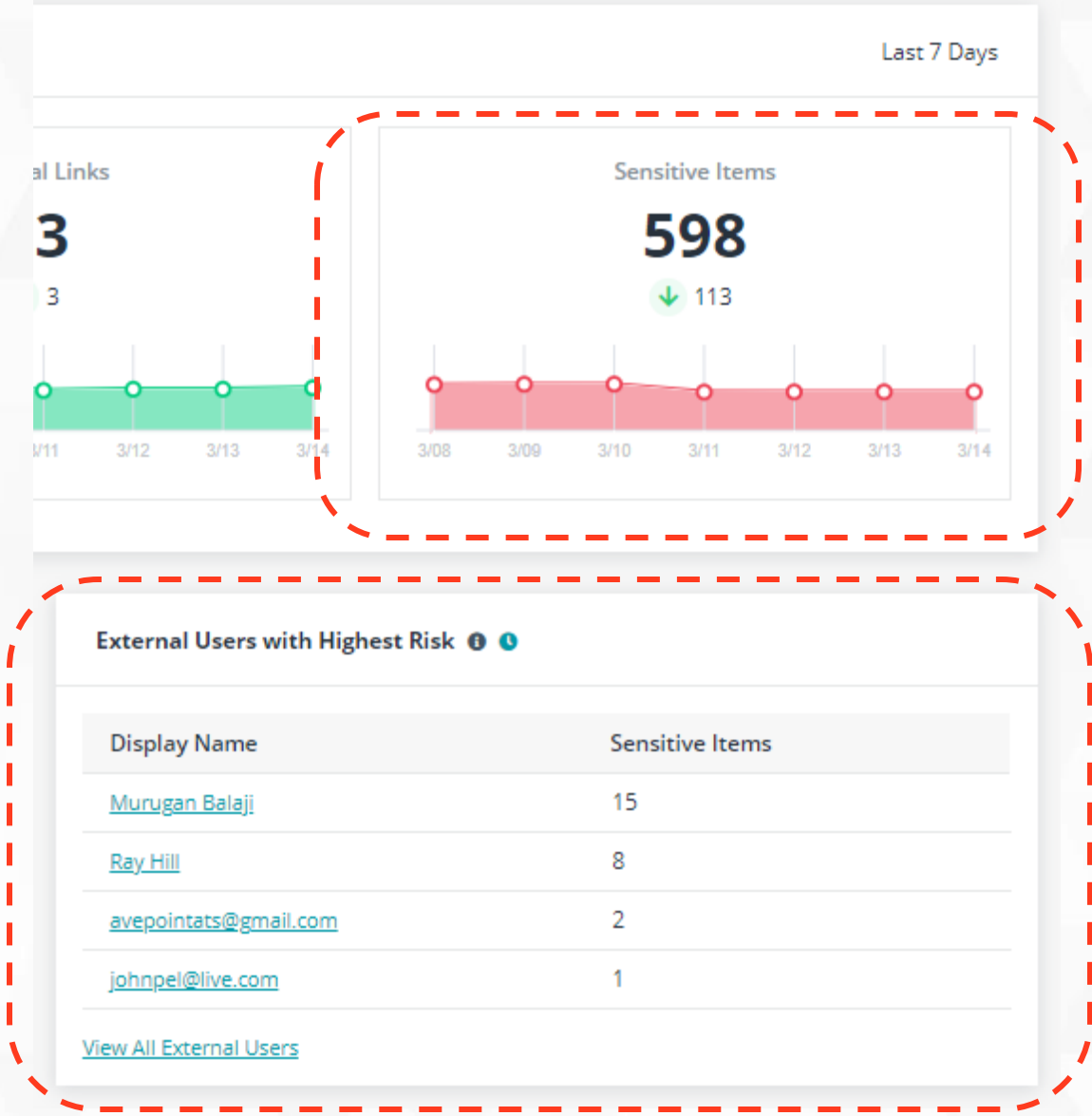


Context helps save time and effort responding to security team requests. Focus only on what matters most.



Reducing sensitive info exposure with AvePoint





Reducing sensitive info exposure with AvePoint

Export

Team Name	Privacy	Channels	Team Members	Guests	Shadow Users/Groups	Number of High Risk Objects	Sensitivity Label
Private Internal_workspace_APAC	Private	2	6	1	1	10	N/A
Q2 Outing	Public	7	12	1	1	9	N/A
Project Alpha	Private	4	10	3	1	7	N/A
IT Team	Public	3	4	0	3	6	N/A
2019 Marketing Wei Office	Private	6	10	0	7	6	N/A
Project Scrubs_Ext Project	Public	2	9	1	1	5	N/A
Channel Move Team - Destination	Public	5	10	0	2	2	N/A
ATS	Public	5	14	0	3	2	N/A
New Team 01	Private	1	3	0	1	0	N/A
Auto Import	Private	2	1	0	2	0	N/A

Previous Next Show Rows 10

Customer success: City of Port St. Lucie

> When we first ran Policies and Insights, it came up with thousands of links that were shared incorrectly. We hit a button and it basically fixed all the links and that risk was instantly mitigated.
>
> ***Hannah Melton**, Assistant Director IT*

ENABLE REMOTE WORK IN COVID-19 RESPONSE

Migrated to Microsoft 365 with AvePoint within 12 hours. Leveraging AvePoint's governance, security, and backup solutions, was able to drive adoption and minimize risk.

COMPLY WITH LOCAL REGULATIONS

Monitor access to sensitive documents, automatically remediate policy violations for guest access. Security dashboards provide actionable insights. Paired with AvePoint's granular backup and restore, meet "Sunshine State" protection laws.

REDUCE MANUAL IT WORK TO ROLL-OUT & MANAGE TEAMS

Reduce Teams provisioning process by 600%, automatically fix links that are shared incorrectly, and prevent configuration drift with governance + PI capabilities. No more manual configuration and membership checks to validate access!

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Unmanaged external users

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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 libraries

Only files without sensitive content

Control HOW externally shareable links can be used

Default

Enabled, but not default

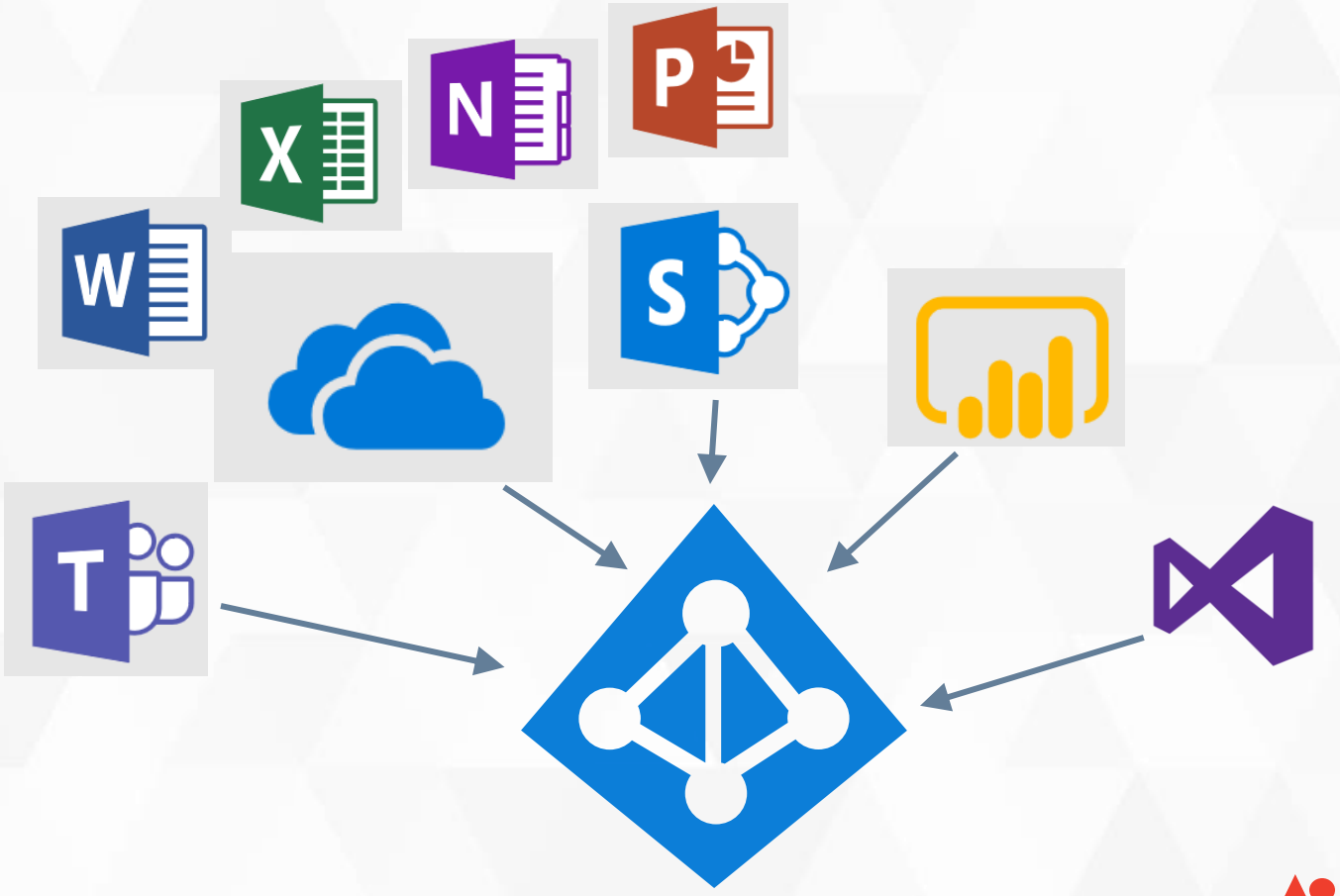
Mandatory expiration date

Block externally-shareable edit links

Disabled

Share and collaborate with guests in Microsoft products

- Teams
- Office365 Groups
- SharePoint/Office client
- Power BI
- Visual Studio
- …and more



How do you manage security settings?

Azure Active Directory admin center

Contoso Electronics | SharePoint admin center

Contoso Electronics | OneDrive

External sharing

Contoso Electronics | Microsoft Teams admin center

Dashboard
Teams
Devices
Locations
Users
Meetings
Messaging policies
Teams apps
Voice
Analytics & reports
Org-wide settings
External access
Guest access
Teams settings
Teams upgrade
Holidays

Guest access

Guest access in Teams lets people outside your organization access teams and channels. You can use the settings below to control which features guest users can or can't use. Learn more

Allow guest access in Teams — On

Calling

Manage calling specific controls for guest users.

Make private calls — On

Meeting

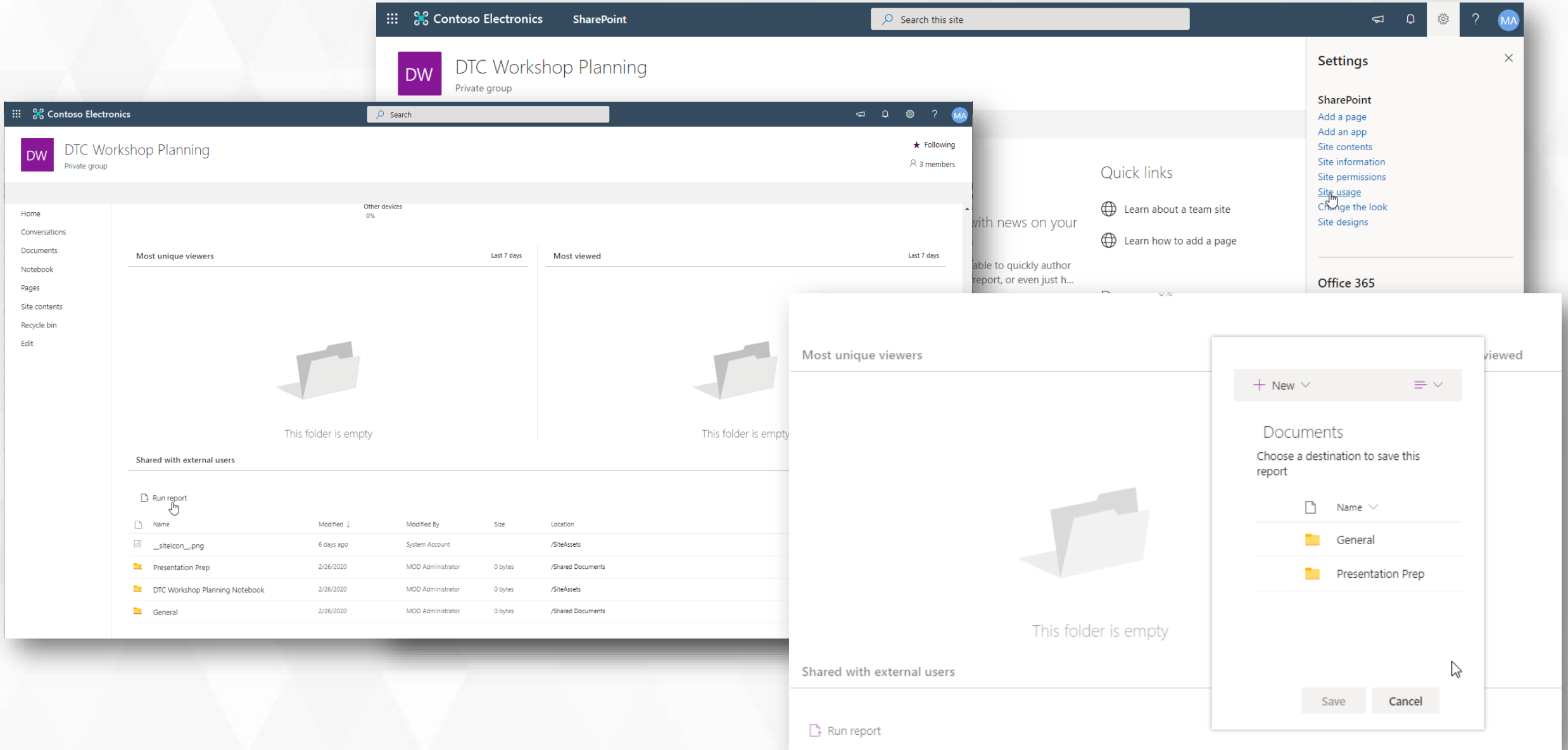
Turn on or turn off settings for guests in meetings.

Allow IP video — On

Screen sharing mode — Entire screen

Allow Meet Now — On

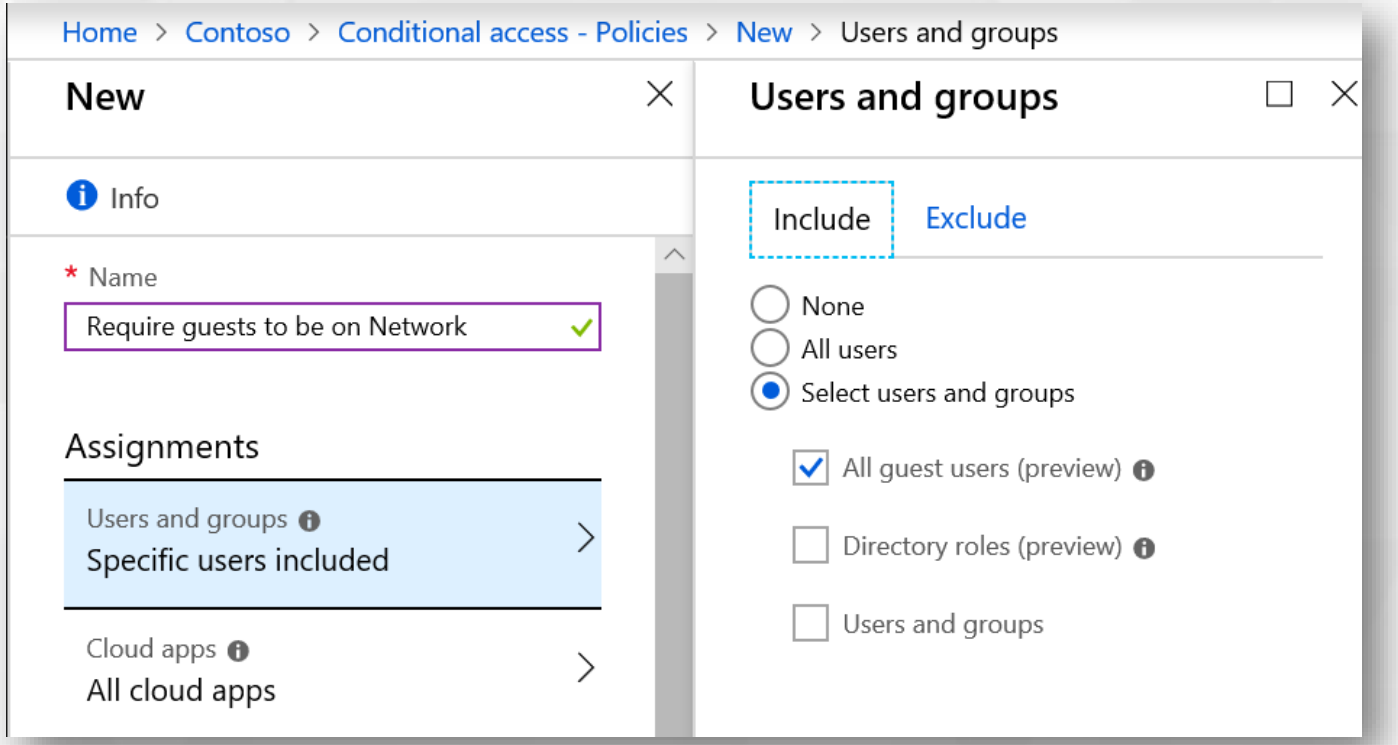
External user reporting for SPO and ODFB is at the *site collection* level



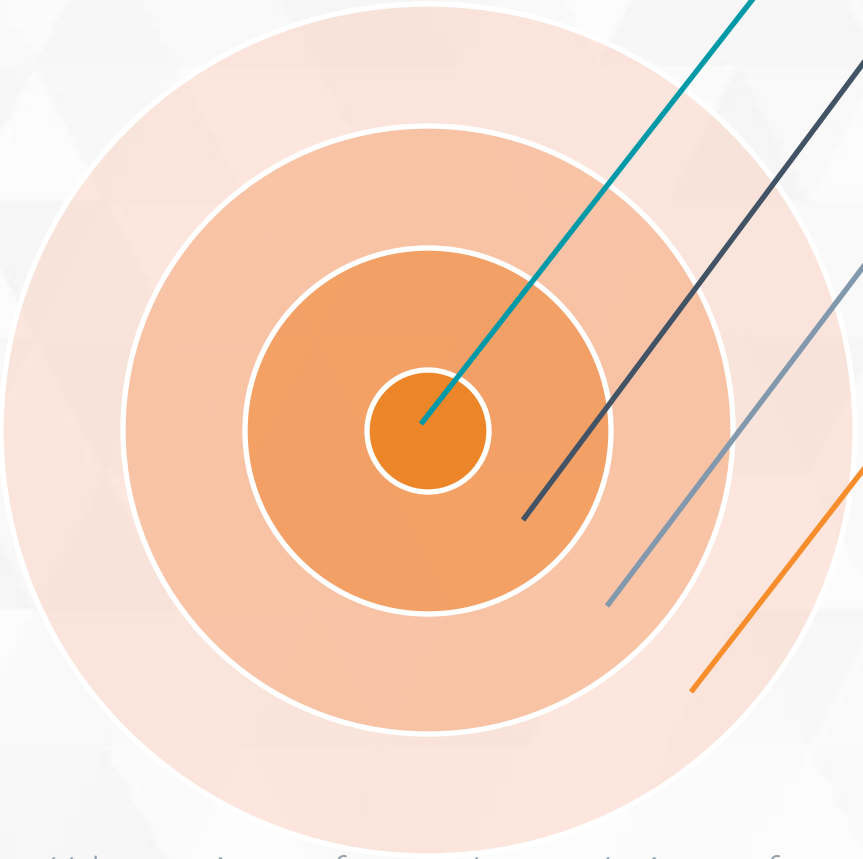
Conditional access for guest users

You can enforce conditional access polices on guests just like you would for any other user

Can also have policies *specific* to guests



Peeling it all apart…



AAD Settings

- *Lots of options*

O365 Security and Privacy Setting

- *On/Off*

Group Settings

- *2 Options*

Teams Settings

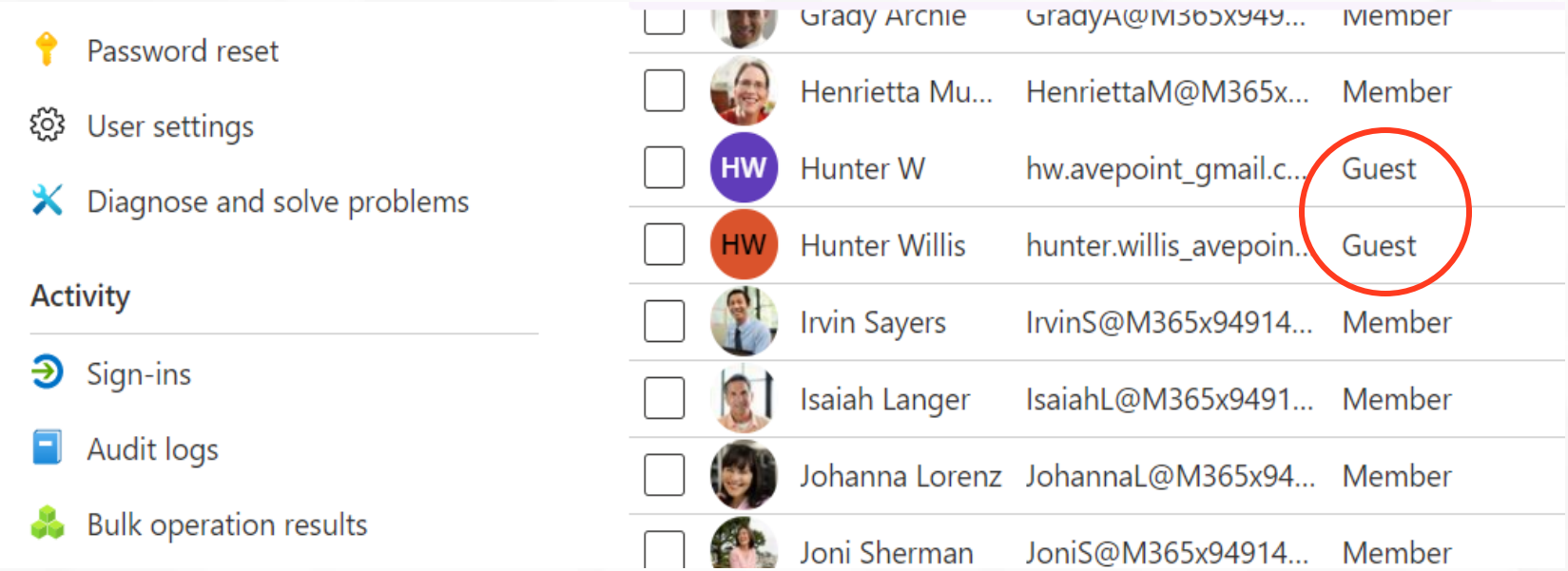
- *MUCHO options*

https://docs.microsoft.com/en-us/microsoftteams/guest-access-checklist

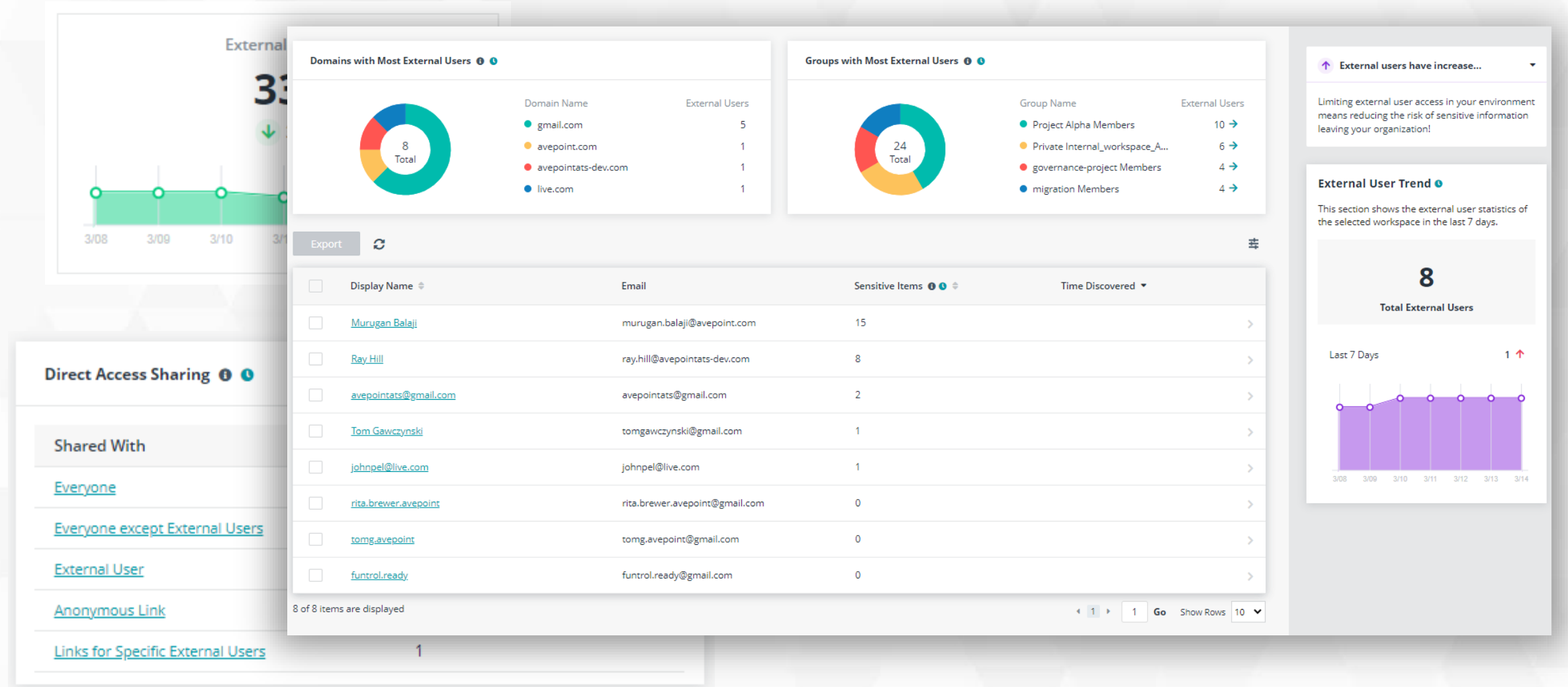
View guest users in AD and O365 Admin Center

But how do you answer the who, what, when, where, why and how?

How long do they need/should they have membership?



Managing external users with AvePoint



Overprivileged and shadow users

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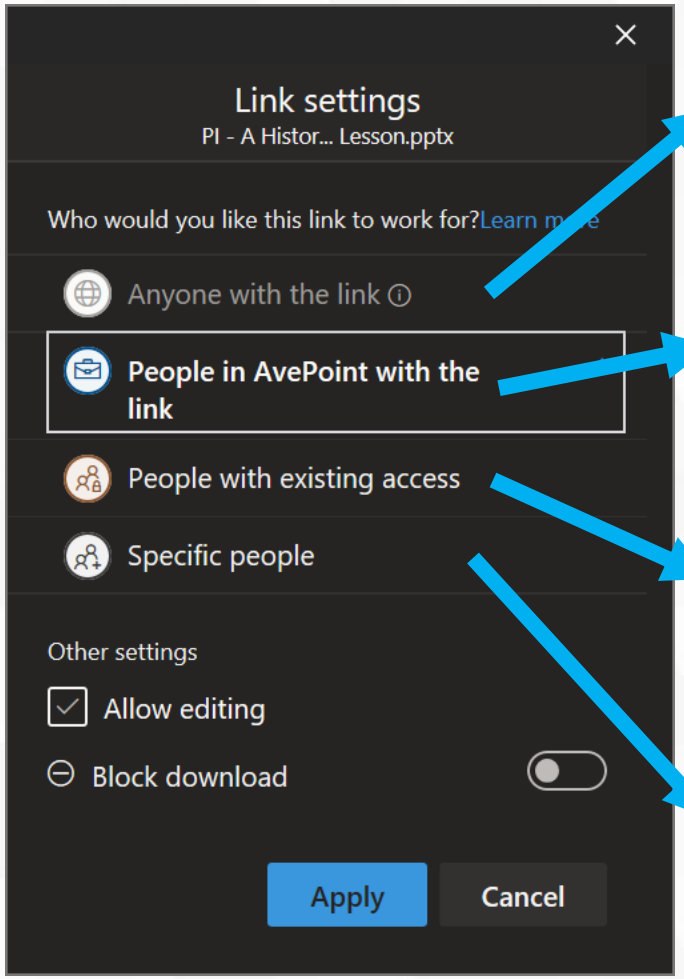
Reminder: How we got here



Anonymous Links (external too!)

- Usually disabled, but high risk if it's not!

"Everyone except external"

- Super common in migration environments (it's just easier!)

Implicit permissions from big groups

- Just who is in "PMRequest" anyway?

Explicit people hiding in the wings

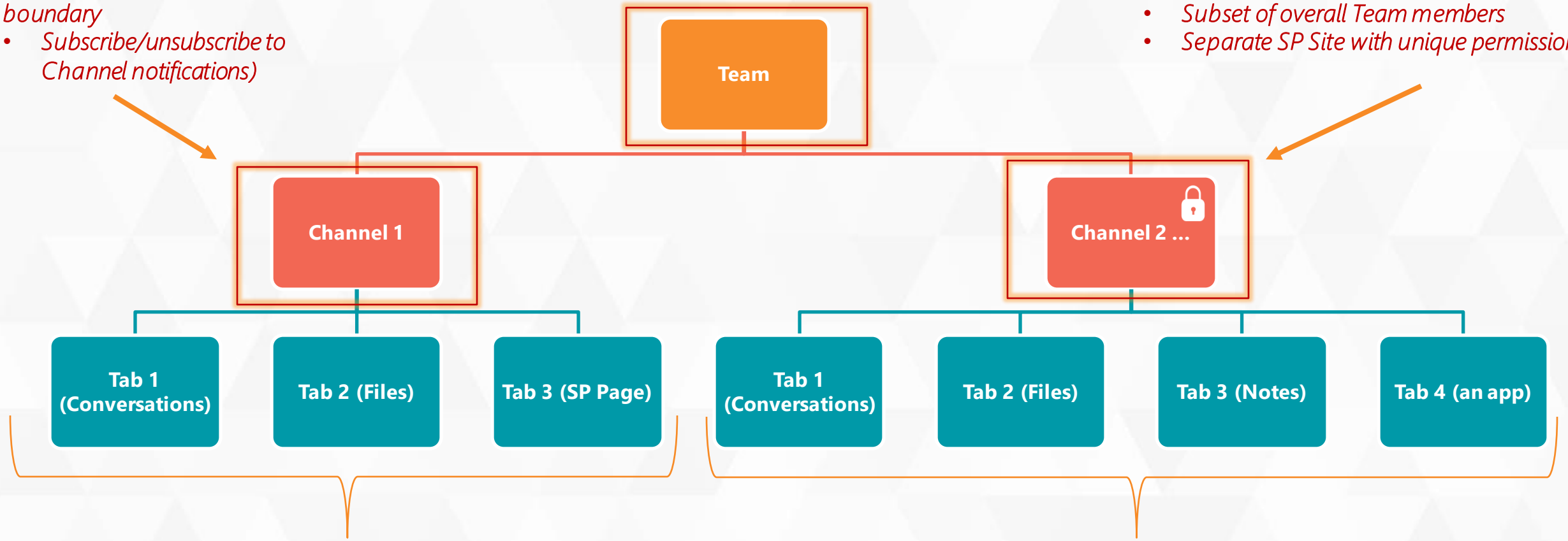
- Broken inheritance is the norm in Office Apps + Teams!

Teams and “private channels”…

"Standard Channel"
COMMUNICATION boundary
- *Subscribe/unsubscribe to Channel notifications)*

SECURITY boundary
- *Team (Group) membership*

"Private Channel"
SECURITY boundary
- *Subset of overall Team members*
- *Separate SP Site with unique permissions*

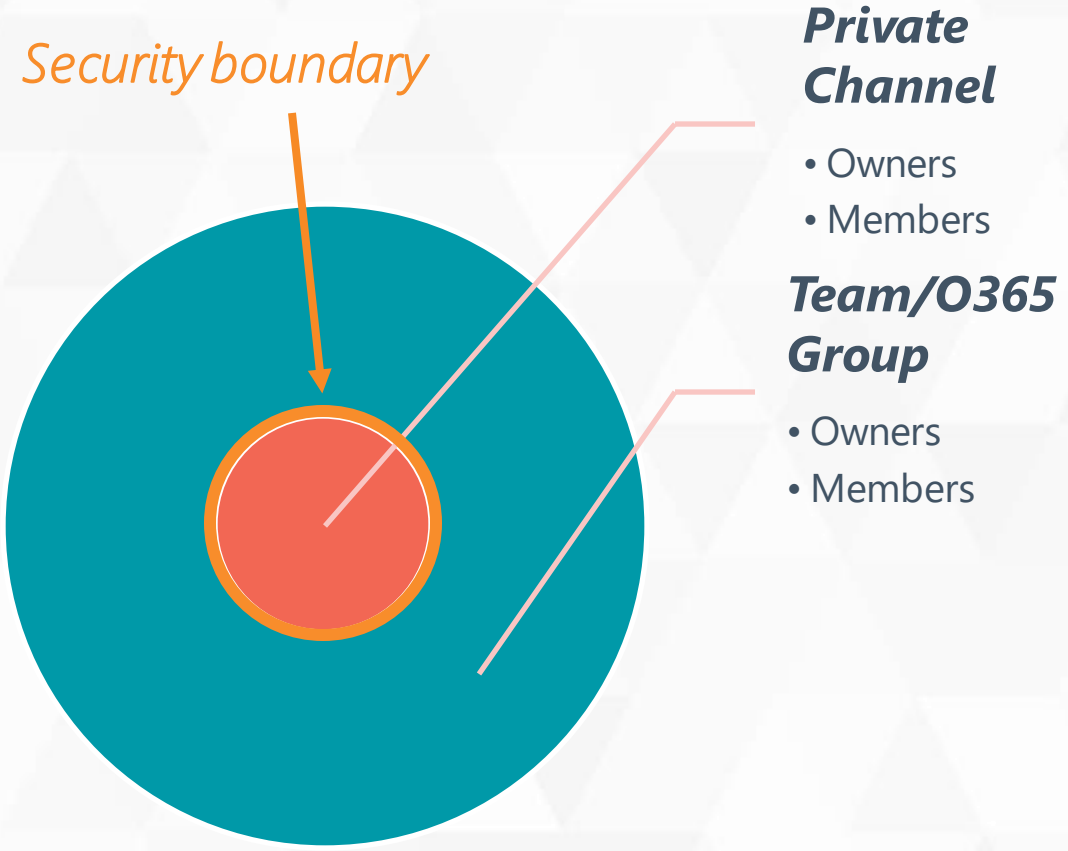


Resources to support the Channel

Resources to support the Channel

Channel “members” and “owners”

- A subset of the overall team, so PC members/owners must be Team members
- Each PC has it’s own list of members/owners, “mastered” in Teams
- PC owners *do not* have to be Team owners



Who can see private channels in Teams?

Item	Team owner can see	Team members can see
Name and description	All private channels in the team	Only the private channels that they are added to
Conversations and tabs	Only when added to the private channel	Only when added to the private channel
Files and content	Only when added to the private channel	Only when added to the private channel
Private channel owner	All private channels in the team	Only when added to the private channel
Last activity time stamp	All private channels in the team	Only when added to the private channel

https://docs.microsoft.com/en-us/microsoftteams/private-channels

SharePoint

Search this library

The Point | Customer Enablement | Employee Resources | External Resources

BGLeads

Private group

Following

20 members

Home
Conversations
News
Shared with us
Documents
Notebook
BG Pursuit Requests
Pages
Legacy Documents
BG Enablement Docs
BG Example Docs
BG Initiatives Tracking
BG Lead Activity Calendar
BG_Workstream Projects
BG_Workstreams
Shared wExec Leadershi...
Migration Project List
Site Contents
Recycle bin
Edit

Return to classic SharePoint

New | Upload | Quick edit | Share | Copy link | Sync | Download | Go to channel | Export to Excel | PowerApps | ...

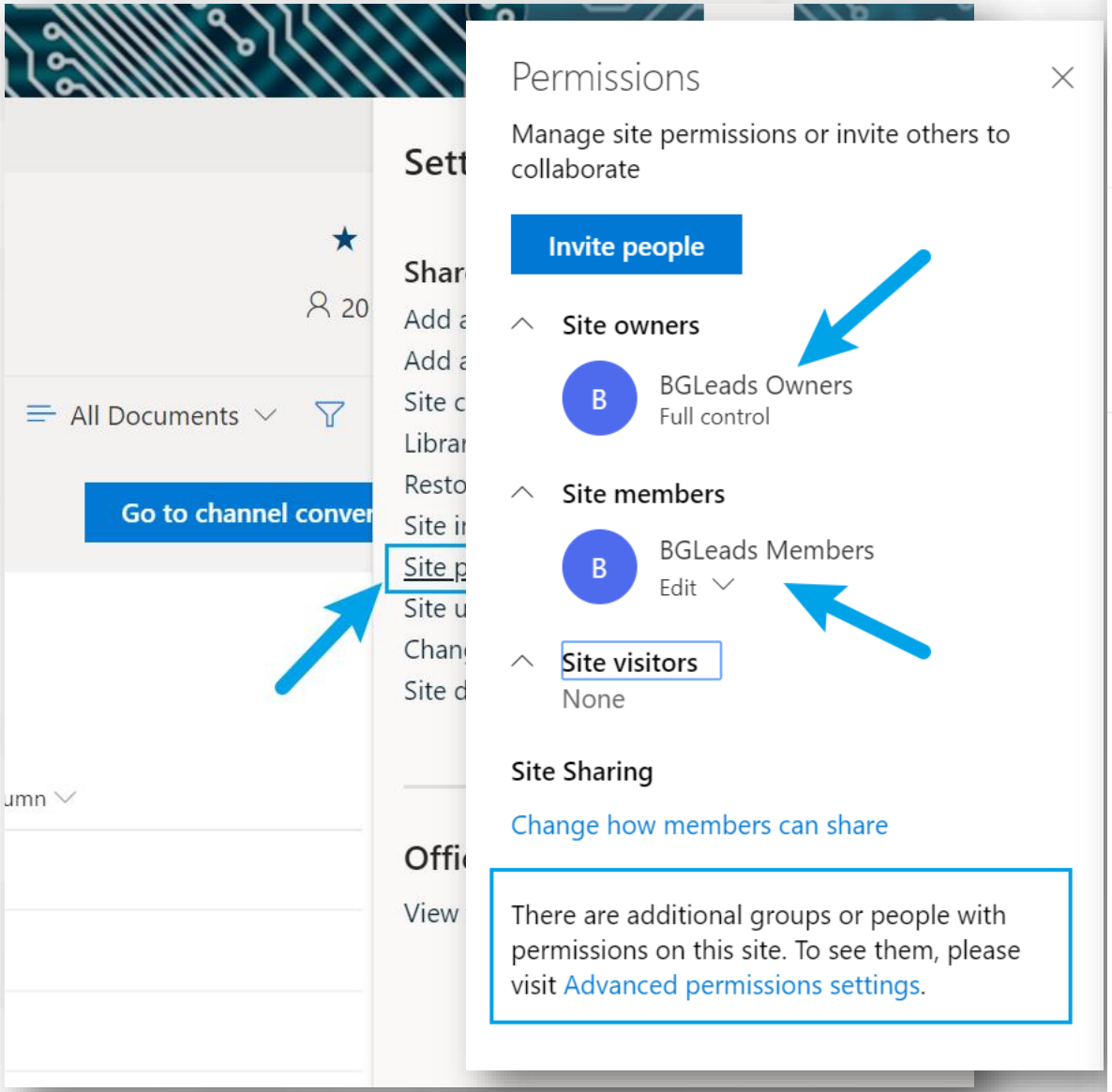
All Documents

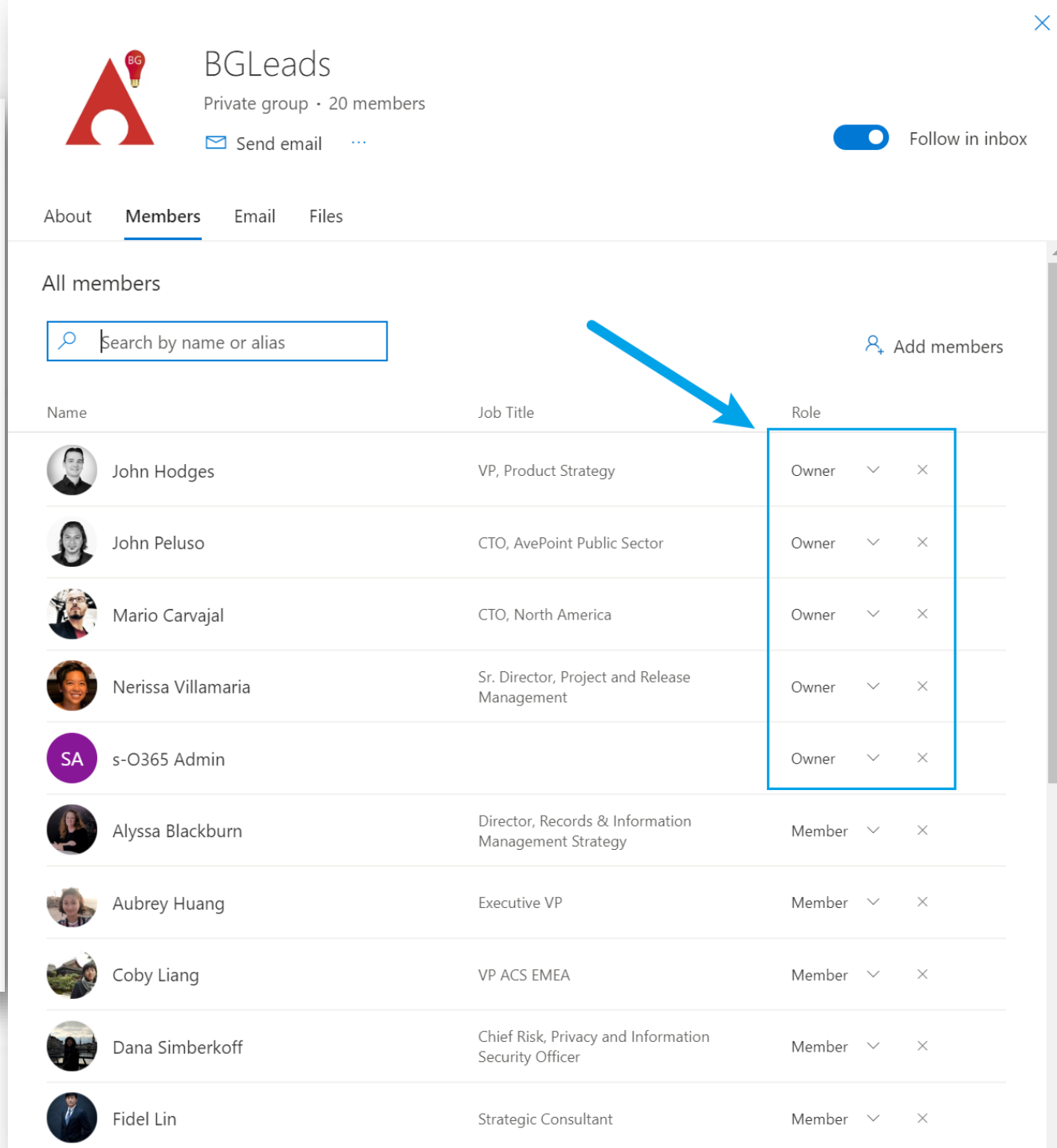
This folder is connected to a channel in Microsoft Teams

Go to channel conversation

Documents > General

Name	Modified	Modified By	Planner Board Type	+ Add column
AOS Competitor Blacklist	November 29, 2018	Vanessa Molnar		
BG Presentations	December 15, 2017	Nerissa Villamaria		
BG Session Recordings - 2017	July 24, 2019	Nerissa Villamaria		
BG Team Operations	December 4, 2017	John Peluso		
EOL Slide	June 11, 2019	Coby Liang		
Governance Workshops	March 28, 2019	Vanessa Molnar		
MSFT Collab	December 11, 2017	Nerissa Villamaria		
Town Hall Slides for TJ	August 6, 2018	Nerissa Villamaria		
What's new videos	July 23, 2018	Alyssa Blackburn		
2017-state-of-it-report-salesforce.pdf	December 11, 2018	Kate Faaland	--Select Planner Category--	
2018-01-19_10-14-30.png	January 19, 2018	Paul Olenick	--Select Planner Category--	
Alexa-Analyze.png	June 16, 2019	Lardy Liu	--Select Planner Category--	


All Documents
Go to channel conver
Permissions
Manage site permissions or invite others to collaborate
Invite people
Site owners
BGLeads Owners
Full control
Site members
BGLeads Members
Edit
Site visitors
None
Site Sharing
Change how members can share
There are additional groups or people with permissions on this site. To see them, please visit Advanced permissions settings.


BGLeads
Private group • 20 members
Send email
Follow in inbox
About
Members
Email
Files
All members
Search by name or alias
Add members
Name
Job Title
Role
John Hodges
VP, Product Strategy
Owner
John Peluso
CTO, AvePoint Public Sector
Owner
Mario Carvajal
CTO, North America
Owner
Nerissa Villamaria
Sr. Director, Project and Release Management
Owner
s-O365 Admin
Owner
Alyssa Blackburn
Director, Records & Information Management Strategy
Member
Aubrey Huang
Executive VP
Member
Coby Liang
VP ACS EMEA
Member
Dana Simberkoff
Chief Risk, Privacy and Information Security Officer
Member
Fidel Lin
Strategic Consultant
Member

Permissions

Manage site permissions or invite others to collaborate

Invite people

Site owners

B BGLeads Owners
Full control

Site members

B BGLeads Members
Edit

Site visitors
None

Site Sharing

Change how members can share

SharePoint

BROWSE | PERMISSIONS

Grant Permissions | Create Group | Edit User Permissions | Remove User Permissions | Check Permissions | Permission Levels | Access Request Settings | Site Collection Administrators

Grant | Modify | Check | Manage

Home
Conversations
News
Documents
Notebook
Recent
19:b2e8d2185925493b9df22133b760c2ed@thread.skype_wiki
19:540ee0e142164a50beb8d50b16d77496@thread.skype_wiki
19:76580ceee9af4105b2ba331a99b6d175@thread.skype_wiki
19:c66630b0b38b48aebade1d0de0745ae0@thread.skype_wiki
Tasks 1
BG Pursuit Requests

Some content on this site has different permissions from what yo
There are limited access users on this site. Users may have limited acce
People are waiting for your approval so that they can access this

Name
BGLeads Members
BGLeads Owners
BGLeads Visitors

Exceptions: BGLeads

Lists that have unique permissions

Apps Team	manage permissions
BG Enablement Docs	manage permissions
BG Initiatives Tracking	manage permissions
Migration Project List	manage permissions
Shared wExec Leadership-edit	manage permissions

Lists that may contain items with unique permissions

BG Example Docs	view exceptions

There are additional groups or peo
permissions on this site. To see ther
visit Advanced permissions settings

Lists that may contain items with unique permissions

BG Example Docs | view exceptions

SharePoint

EDIT LINKS

BGLeads People and

Groups
BGLeads Members
BGLeads Visitors
BGLeads Owners
More...
Home
Conversations
News
Documents
Notebook
Recent
19:b2e8d2185925493b9
Tasks 1
BG Pursuit Requests

New

There a

Remove User Permissions
Check Permissions
Modify
Check

This docume
People are w

Name
BGLeads
BGLeads
BGLeads

Users who have penks to remove
Edit link for AvePoint i
Nerissa Vi

ccess this site

Manage Access for '2017_Oct_R...

Manage Access

Remove link

https://avepointcr... Copy

People in AvePoint with the link can edit

Link settings

Can edit

Shared with

Nerissa Villamaria
Sr. Director, Project and Release Managem...

Save Discard

Department

Owner
Owner
Owner
Owner
Owner
Owner

SharePoint

BROWSE | PERMISSIONS

Grant Permissions | Create Group | Edit User Permissions | Remove User Permissions | Check Permissions | Permission Levels | Access Request Settings | Site Collection Administrators

Grant | Modify | Check | Manage

- Home
- Conversations
- News
- Documents
- Notebook
- Recent
  - 19:b2e8d2185925493b9df22133b760c2ed@thread.skype_wiki
  - 19:540ee0e142164a50beb8d50b16d77496@thread.skype_wiki
  - 19:76580ceee9af4105b2ba331a99b6d175@thread.skype_wiki
  - 19:c66630b0b38b48aebade1d0de0745ae0@thread.skype_wiki
  - Tasks 1
- BG Pursuit Requests
- Pages
- Legacy Documents
- BG Enablement Docs
- BG Example Docs
- BG Initiatives Tracking
- BG Lead Activity Calendar
- BG_Workstream Projects
- BG_Workstreams
- Shared wExec Leadership-

Some content on this site has different permissions from what you see here. Show these items.

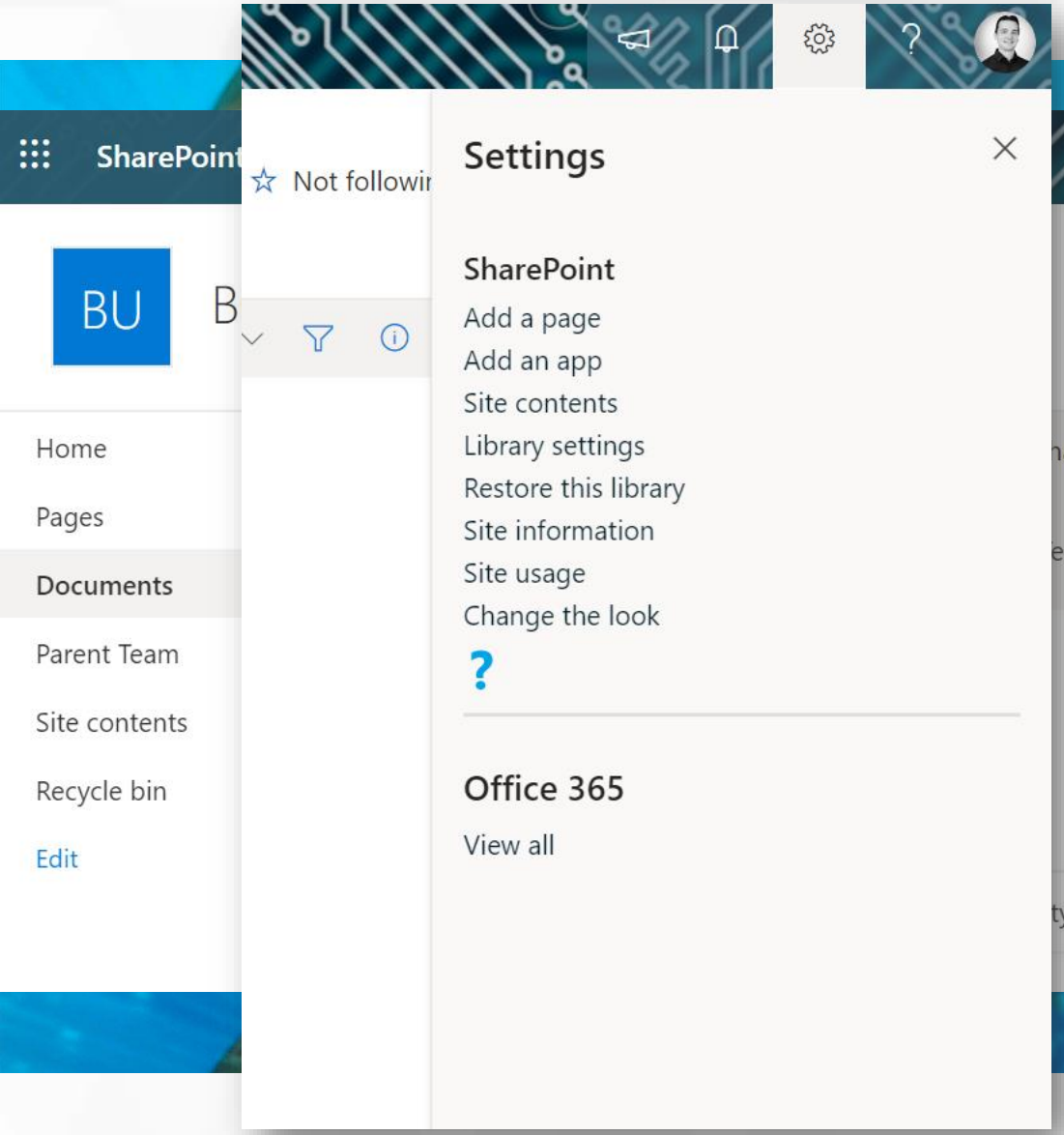
There are limited access users on this site. Users may have limited access if an item or document under the site has been shared with them.

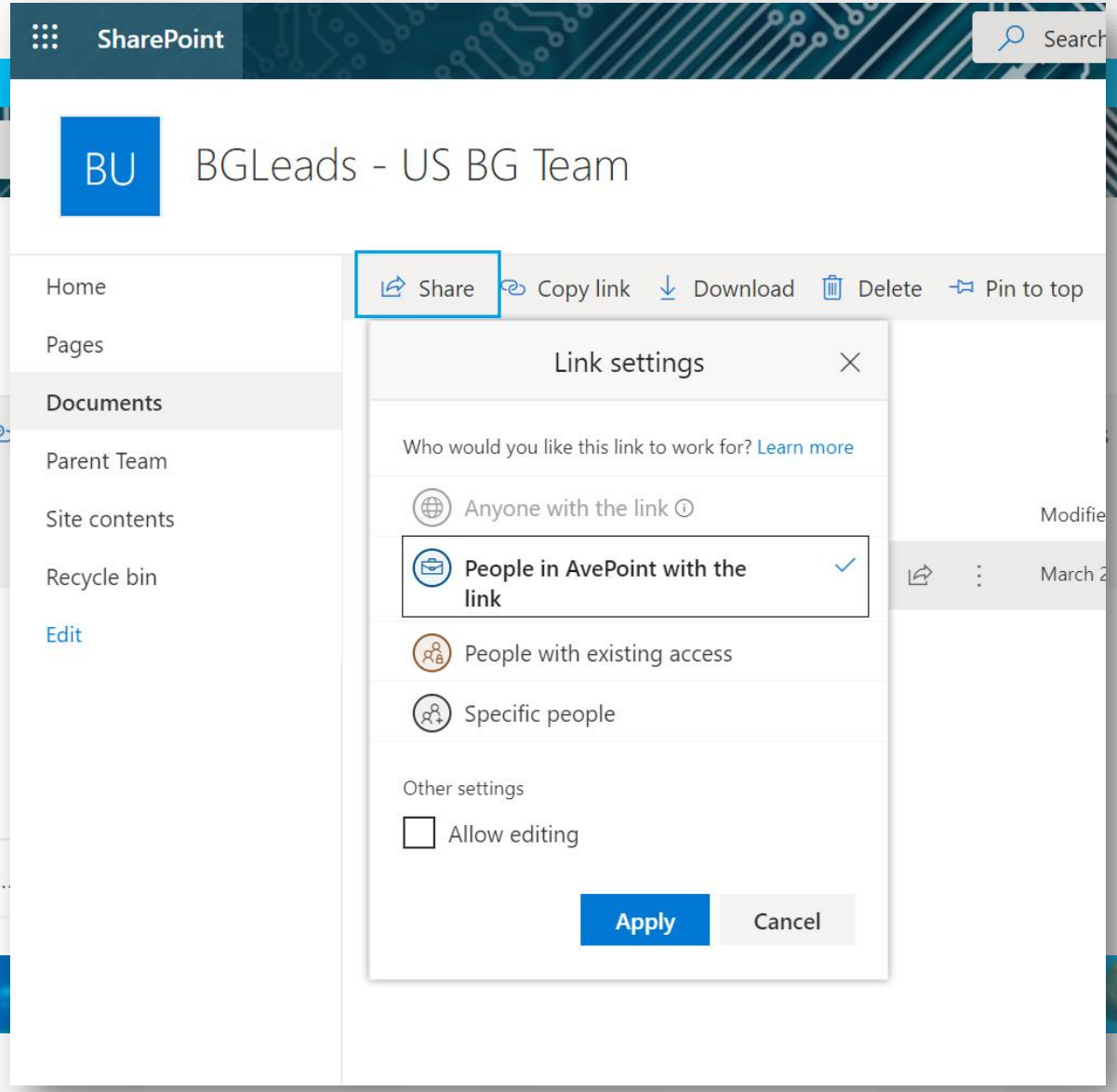
People are waiting for your approval so that they can access this site. Show access requests and invitations.

WHO?

Name	Type	Permission Levels
Aaron Barnes	User	Limited Access
Ada Liu	User	Limited Access
Alex Gasper	User	Limited Access
Alfred Lombardi	User	Limited Access
Alyssa Blackburn	User	Limited Access
Andrew Diaz	User	Limited Access
AnnMarie Connolly	User	Limited Access
AOS Product PM Members	Domain Group	Limited Access
Architects	Domain Group	Limited Access
Armand Zhou	User	Limited Access
Austin Han	User	Limited Access
Baron Zhang	User	Limited Access
BG Enablement Contributors	SharePoint Group	Limited Access
BG Members	SharePoint Group	Limited Access
BG Owners	SharePoint Group	Limited Access
BG Visitors	SharePoint Group	Limited Access
BG+PMK	Domain Group	Limited Access
BGLeads Members	SharePoint Group	Edit, Limited Access
BGLeads Owners	SharePoint Group	Full Control, Limited Access
BGLeads Visitors	SharePoint Group	Read, Limited Access
Blake Zhang	User	Limited Access

What about that private channel?





Site Information

Site logo

Change

Site name *

BGLeads

Site description

Business Group Leads

Privacy settings

Private - only members can access thi...

- Private - only members can access this site
- Public - anyone in the organization can acce

View all site settings

Delete site

Save | Cancel

Site sharing settings

Control how things in this site can be shared and how request access works.

Sharing permissions

- (●) Site owners and members can share files, folders, and the site. People with Edit permissions can share files and folders.
- ( ) Site owners and members, and people with Edit permissions can share files and folders, but only site owners can share the site.
- ( ) Only site owners can share files, folders, and the site.

Access requests

Allow access requests [On]

Choose who will receive access requests for this site:

- (●) BGLeads Owners
- ( ) Specific email

Add a custom message to the request access page:

For example: Please allow three days for us to review your request.

Save | Discard

Permissions

Manage site permissions or invite others to collaborate

Invite people

Site owners

B — BGLeads Owners
Full control

Site members

B — BGLeads Members
Edit

Site visitors

None

Site Sharing

Change how members can share

There are additional groups or people with permissions on this site. To see them, please visit Advanced permissions settings.

Save | Cancel | Reset to organization-level settings

SharePoint admin center

Home

Active sites

Use this page to manage all your sites. Learn more

Sales and Marketing	.../sites/SalesAndMarketing	0.14	Group
Work @ Contoso	.../sites/Work	0.06	MOD Admi
Working Title	.../sites/WorkingTitle	0.00	Group

Sales and Marketing

SharePoint

Search this site

Work @ Contoso | News | Brand | Executive Corner | HR | Operations | Sales & Marketing

Sales and Marketing

Public group

Notebook
Home
Documents
Product List
Pages
Site contents
Recycle bin
Edit

New | Page details

News

Add

New International Marketing Initiatives

We will be releasing a new international marketing

Marketing: New VPN Connection Procedure

If you remote access to corporate re...

Allan Deyoung July 31, 2019

Marketing Lunch

There is a lunch for the Marketing team Next Tuesday at 12:30PM. All...

Alex Wilber July 31, 2019

Quick Links

Find Photos
Marketing Campaigns
Monthly Reports
European Tech Trends

Permissions

Manage site permissions or invite others to collaborate

Invite people

Site owners

Site members

Site visitors

Site Sharing

Change how members can share

There are additional groups or people with permissions on this site. To see them, please visit Advanced permissions settings.

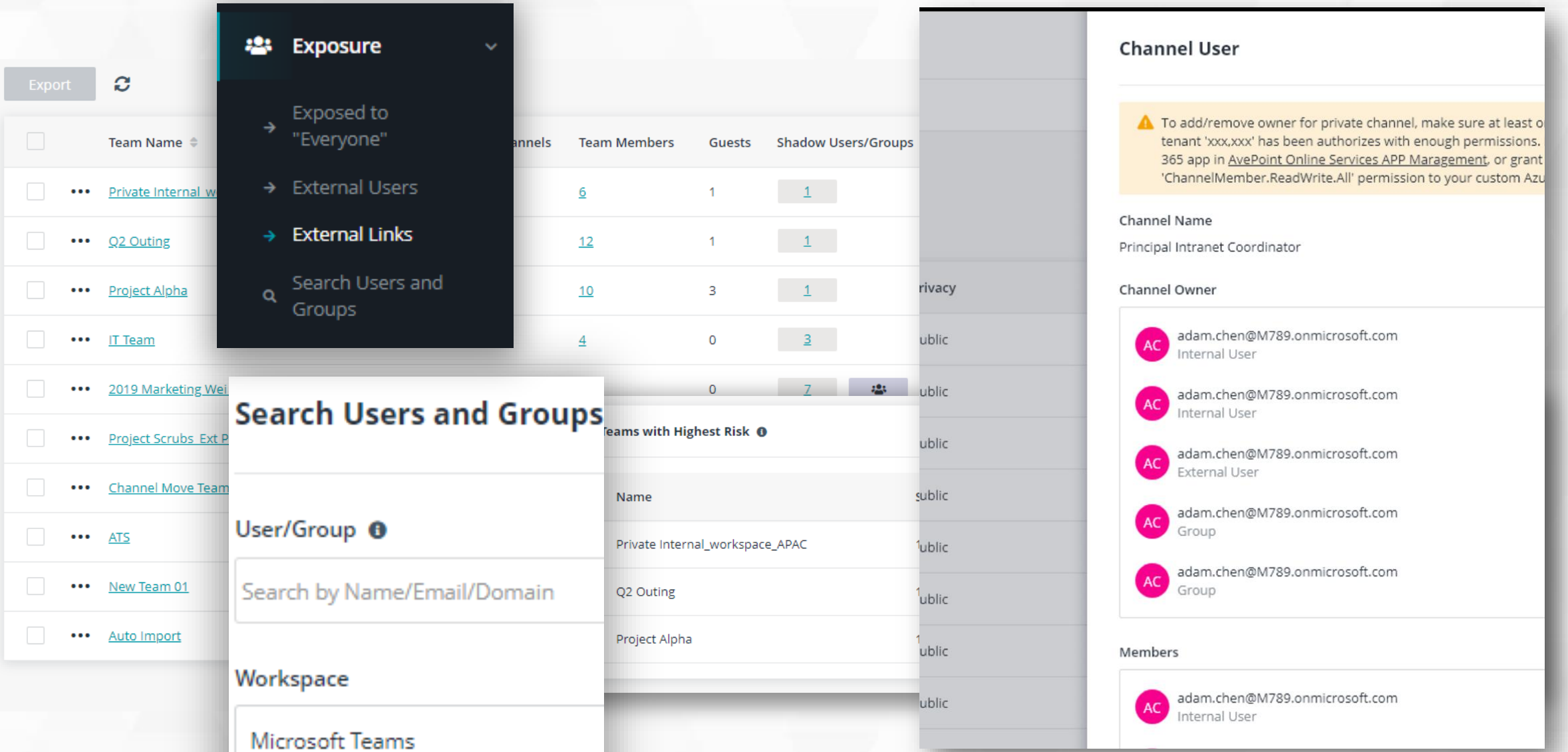
Adele Vance
AdeleV@M365x307511.OnMicro

Alex Wilber
AlexW@M365x307511.OnMicros

Allan Deyoung

Christie Cline

Understanding risky users and groups with AvePoint



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PowerShell Permissions Reports

```
#SPO-specific cmdlets require sharepoint-online module
Install-Module -NameMicrosoft.Online.SharePoint.PowerShell
$ServiceURL ="https://enterprise-admin.sharepoint.com"
$URL = "https://enterprise.sharepoint.com"
$Path = "C:\Temp\GroupsReport.csv"
$Cred =  Get-Credential
#Connect to SharePoint Online
Connect-SPOService -url$ServiceURL -Credential$Cred
#Generating Report
$GroupsData = @()
#get sharepoint online groups powershell
$SiteGroups =Get-SPOSiteGroup -Site$URL
ForEach($Group in $SiteGroups) {
   $GroupsData +=New-Object PSObject-Property @{
      'Group Name' =$Group.Title
      'Permissions' =$Group.Roles -join ","
      'Users' =  $Group.Users -join ","
   }
}
#Export the data to CSV
$GroupsData |Export-Csv $Path-NoTypeInformation
```

PowerShell experts can get me Permissions Reports. But, they don’t tell me the whole story…

A	B	C	D	E	F	G
Path	Title/Name	Level	Username	Display Name	E-mail	Account Type
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\mary.preston	Mary Preston	mary.preston@ave.com	User
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\susan.adams	Susan Adams	susan.adams@ave.com	User
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\simon.chen	Simon Chen		User
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\ben.miller	Ben Miller		User
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\chris.turner	Chris Turner		User
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\wojciech.gajda	Wojciech Gajda	Wojciech.Gajda@ave.com	User
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\julie.mccoy	Julie McCoy	julie.mccoy@ave.com	User
http://intranet/demo/Sales/Shared Documents/North East Invoices/Migration and Tagging.pptx	Migration and Tagging.pptx	Item	i:0#.w|ave\jericho.ren	Jericho Ren		User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\warren.villanueva	Warren Villanueva	warren.villanueva@ave.com	User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\brian.goldstein	Brian Goldstein	Brian.Goldstein@ave.com	User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	HR Owners	HR Owners		SharePoint Group
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\susan.adams	Susan Adams	susan.adams@ave.com	User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\laura.callahan	Laura Callahan		User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\ben.miller	Ben Miller		User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\ray.hill	Ray Hill	ray.hill@ave.com	User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\frank.wilson	Frank Wilson		User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\daniel.attardi	Daniel Attardi	Daniel.Attardi@ave.com	User
http://intranet/demo/HR/Shared Documents/GA Slide.pptx	GA Slide.pptx	Item	i:0#.w|ave\jericho.ren	Jericho Ren		User
http://intranet/demo/C-SDemo/_catalogs/users	User Information List	List	i:0#.w|ave\daniel.attardi	Daniel Attardi	Daniel.Attardi@ave.com	User
http://intranet/demo/InformationTechnology/Project Documents/GASubSiteDirectory.wsp	GASubSiteDirectory.wsp	Item	i:0#.w|ave\warren.villanueva	Warren Villanueva	warren.villanueva@ave.com	User
http://intranet/demo/InformationTechnology/Project Documents/GASubSiteDirectory.wsp	GASubSiteDirectory.wsp	Item	c:0(.s|true	Everyone		Domain Group
http://intranet/demo/InformationTechnology/Project Documents/GASubSiteDirectory.wsp	GASubSiteDirectory.wsp	Item	i:0#.w|ave\da_admin	DA_Admin		User
http://intranet/demo/InformationTechnology/Project Documents/GASubSiteDirectory.wsp	GASubSiteDirectory.wsp	Item	i:0#.w|nt authority\system	NT AUTHORITY\system		User
http://extranet/sites/HR/Lists/TaxonomyHiddenList	TaxonomyHiddenList	List	c:0(.s|true	Everyone		Domain Group
http://intranet/demo/InformationTechnology/Project Documents/AvePoint File Share Navigator vs Connect	AvePoint File Share Navigator vs C	Item	i:0#.w|ave\warren.villanueva	Warren Villanueva	warren.villanueva@ave.com	User
http://intranet/demo/InformationTechnology/Project Documents/AvePoint File Share Navigator vs Connect	AvePoint File Share Navigator vs C	Item	c:0(.s|true	Everyone		Domain Group
http://intranet/demo/InformationTechnology/Project Documents/AvePoint File Share Navigator vs Connect	AvePoint File Share Navigator vs C	Item	i:0#.w|ave\da_admin	DA_Admin		User
http://intranet/demo/InformationTechnology/Project Documents/AvePoint File Share Navigator vs Connect	AvePoint File Share Navigator vs C	Item	i:0#.w|nt authority\system	NT AUTHORITY\system		User
http://ave2013prodwfe:7777/sites/Powell_Industries/Lists/TaxonomyHiddenList	TaxonomyHiddenList	List	c:0(.s|true	Everyone		Domain Group
http://intranet/demo/ArchiveListlitems	ArchiveListlitems	Site	i:0#.w|ave\warren.villanueva	Warren Villanueva	warren.villanueva@ave.com	User
http://intranet/demo/ArchiveListlitems	ArchiveListlitems	Site	Excel Services Viewers	Excel Services Viewers		SharePoint Group
http://intranet/demo/ArchiveListlitems	ArchiveListlitems	Site	ArchiveListlitems Owners	ArchiveListlitems Owners		SharePoint Group
http://intranet/demo/ArchiveListlitems	ArchiveListlitems	Site	ArchiveListlitems Visitors	ArchiveListlitems Visitors		SharePoint Group
http://intranet/demo/ArchiveListlitems	ArchiveListlitems	Site	ArchiveListlitems Members	ArchiveListlitems Members		SharePoint Group
http://intranet/demo/InformationTechnology/Notification Pages	Notification List	List	i:0#.w|ave\warren.villanueva	Warren Villanueva	warren.villanueva@ave.com	User
http://intranet/demo/InformationTechnology/Notification Pages	Notification List	List	i:0#.w|ave\ben.miller	Ben Miller	Ben.Miller@ave.com	User
http://intranet/demo/InformationTechnology/Notification Pages	Notification List	List	InformationTechnology Owners	InformationTechnology Owners		SharePoint Group
http://intranet/demo/InformationTechnology/Notification Pages	Notification List	List	i:0#.w|ave\bruce.wayne	Bruce Wayne	bruce.wayne@ave.com	User

How do I prioritize? Anything sensitive in the files and sites?

Process Management

- ❑ How can I analyze this many permissions?
- ❑ Security groups/nested groups? Keeping them straight?
- ❑ Users, access and relevancy- which users are ok and which ones are not?
- ❑ Snapshot blues: I'm only seeing a point in time…
- ❑ Correction woes: once I have an understanding, corrections are manual
- ❑ How can I present this information in a way stakeholders can digest?
- ❑ How can I prove that the problem is getting better over time?

Managing permissions with AvePoint

Refresh

6 columns selected

Name	Object Type	Created By	Exposure Level
FI67543874629.doc	File	Murugan Balaji	High
UDE CC External Vendors.docx	File	James Nankervis	High
ATS_Team_ Budget.doc	File	Murugan Balaji	High
CC_List_label.docx	File	Wojciech Gajda	High
Risk.docx	File	James Nankervis	High
External Customers-PI.docx	File	James Nankervis	High
UDE PI External NA Vendors.docx	File	James Nankervis	High
UDE Names.docx	File	James Nankervis	High
UDE PI CC Numbers.docx	File	James Nankervis	High
LoanApplication_GK_ApplicantID2538.docx	File	Murugan Balaji	High

Show Rows 10

Shadow Users/Groups

Team Name

2019 Marketing Wei Office

Users/Groups (7)

User/Group	User/Group Type
1M 12345we Members	Security Group
AP Application Pool	Security Group
EL Eddie Lee	Internal User
JL Jay Leask	Internal User
MW Michael Wit	Internal User
MB Murugan Balaji	External User
SH Stephen Hines	Internal User

1 1 Go

Teams sprawl and configuration drift

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Office 365 Groups = Membership Service

Attributes

One identity
Azure AD is the master for group identity & membership

Federated resources
Office 365 services extend with their data

Loose coupling
Service notify each other of changes to a group

Flow

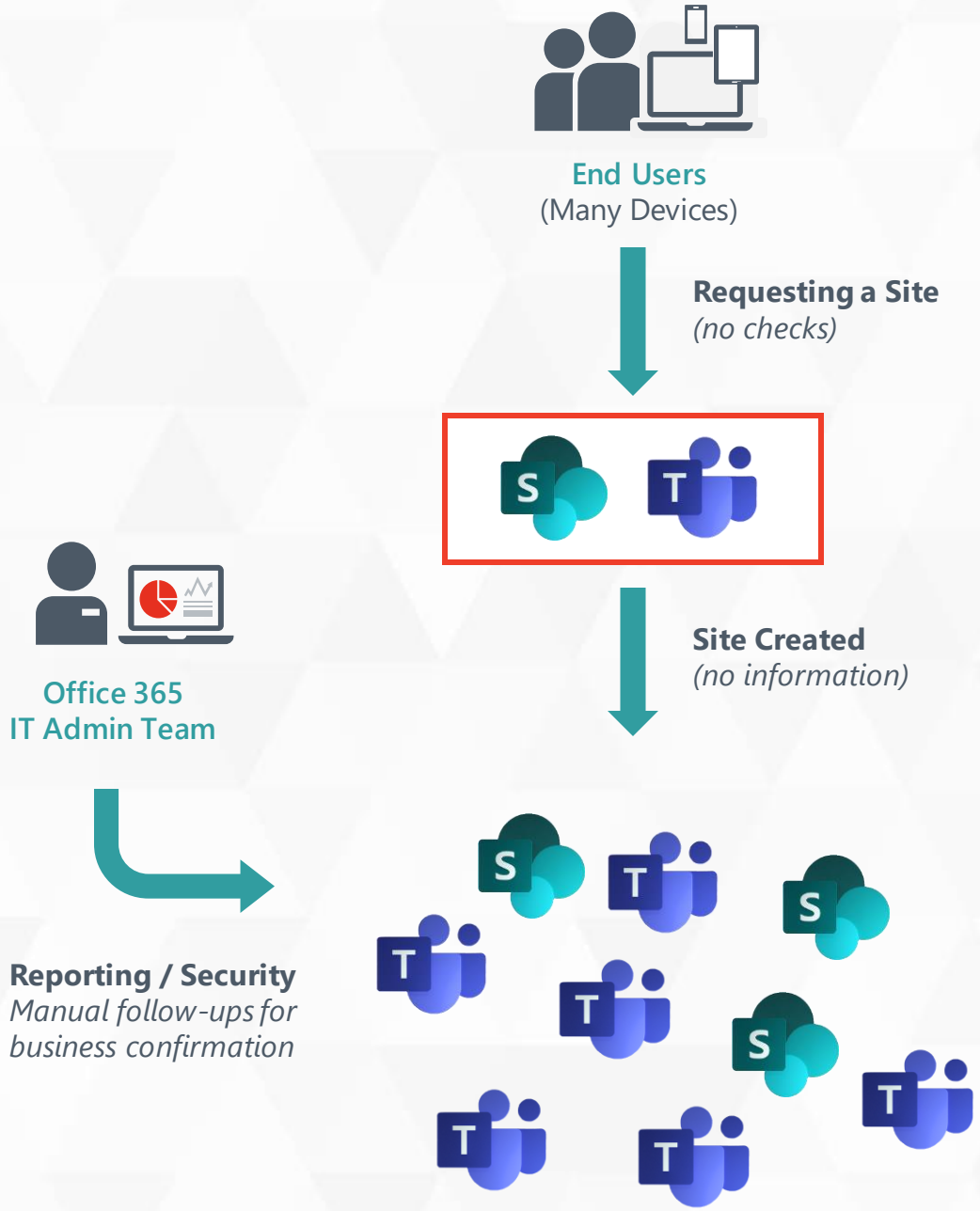
User creates new group for teamwork → Group identity created in Azure Active Directory → Group experience populated in app of choice

Apps

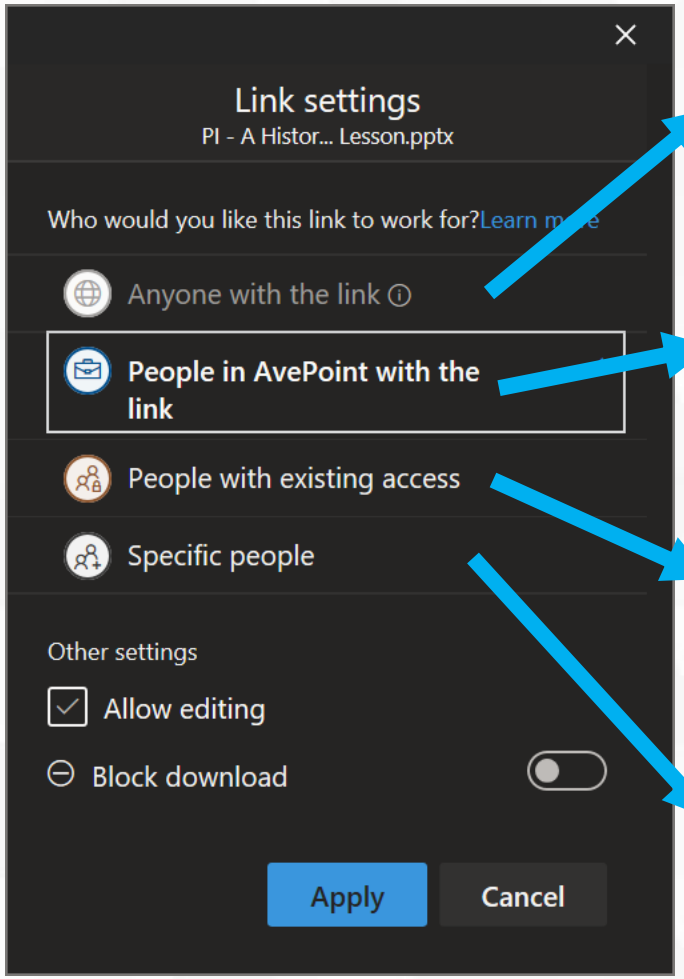
Azure AD

Outlook | Teams | StaffHub
SharePoint | Planner | Dynamics CRM
Yammer | Stream | Power BI

UNRESTRICTED CREATION OF WORKSPACES



Compounding the problem of oversharing



Anonymous Links (external too!)

- Usually disabled, but high risk if it's not!

"Everyone except external"

- Super common in migration environments (it's just easier!)

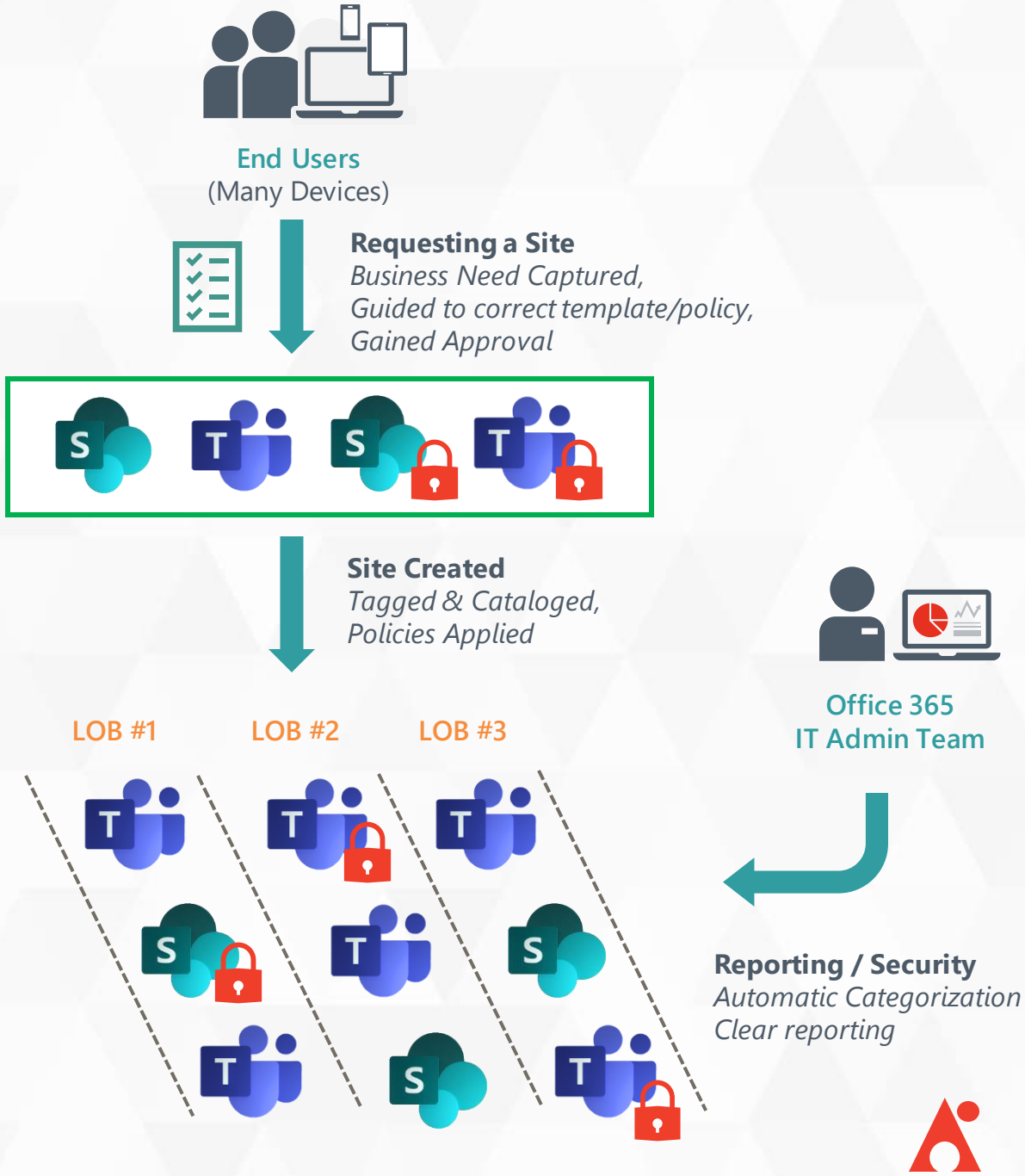
Implicit permissions from big groups

- Just who is in "PMRequest" anyway?

Explicit people hiding in the wings

- Broken inheritance is the norm in Office Apps + Teams!

WITH AUTOMATED GOVERNANCE



Governance of Teams with AvePoint

- Classification Change Restriction
- Classification Enforcement
- External Sharing Settings
- External User Access Enforcement
- Groups/Teams Creation Restriction
- Membership Restriction
- Microsoft 365 Group Visibility in Outlook Client
- Owner Number Restriction
- Ownership Restriction
- Privacy Restriction
- Remove Shadow Users
- Team Name Enforcement
- Teams Settings Enforcement

Content Sensitivity Control

5 rules applied

Classification Change Restriction
Prevent changes to the classification of Groups or Teams.

Microsoft 365 Group Visibility in Outlook Client
Control if a Microsoft 365 Group is visible in the Outlook ...

User/Group Restriction
Control users and groups that can be added to sites.

Privacy Restriction
Control the privacy settings of Groups or Teams.

Ownership Restriction
Control users who can be added to Groups or Teams as ...

Data Protection

4 rules applied

External Sharing Control

2 rules applied

AvePoint®

Policies & Insights

For Microsoft 365

SECURE COLLABORATION MADE EASY WITH PI

Find and prioritize
what matters

Monitor and fix
exposure hot spots

Enforce and prevent
security risks overtime

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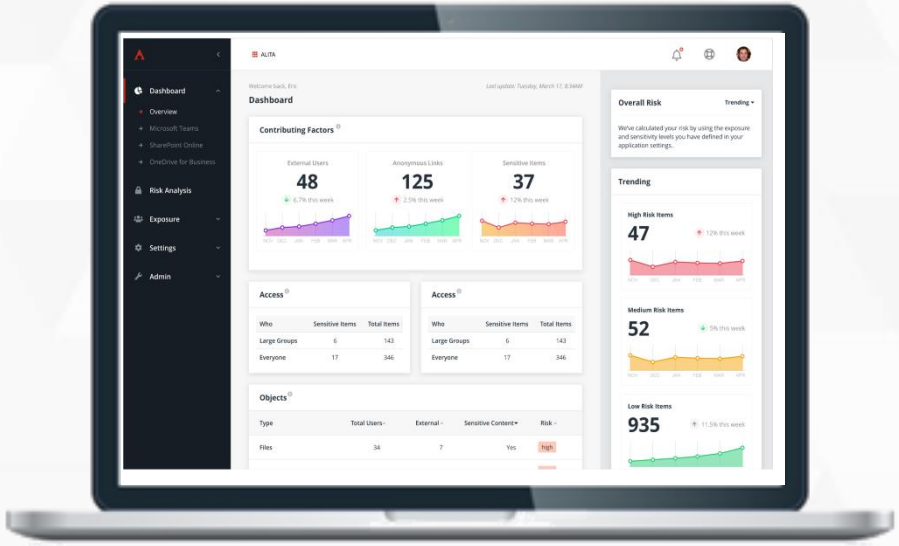

Policies & Insights (PI) for Microsoft 365

AvePoint

Microsoft makes sharing easy. PI makes sharing secure.

1 SCALE YOUR IT TEAM WITH OPERATIONS AUTOMATION

Bulk fix or edit security or permissions issues based on insights. Set policies for sharing and guest access that get enforced automatically.

2 REDUCE SECURITY & COLLABORATION RISK

Map risk insights to your regional or industry regulatory framework so critical issues are prioritized for action.

3 MINIMIZE HUMAN ERRORS IN DELIVERY OF M365 SERVICES

Set policies to monitor and control guest access, sharing, provisioning, and more, to prevent configuration drift. No more manual or ad-hoc actions needed.

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Visit our website for a trial and contact us for more info today!!

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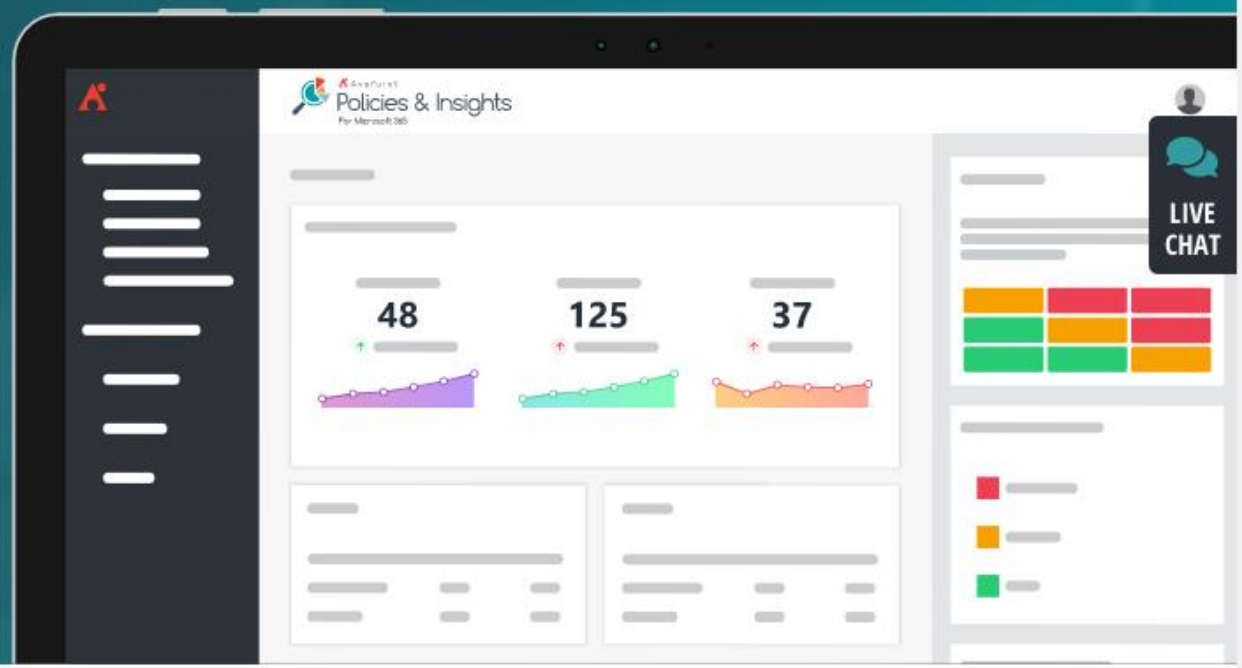
Solutions Products Resources About **Free Trial**

Policies & Insights for Microsoft Office 365

Secure and report on Teams, Groups, SharePoint, and OneDrive with ease

Reduce IT's security burden. Easily find, prioritize, fix, and enforce controls for permissions, membership, and configuration. All your workspaces, completely secure.

Request a demo **FREE TRIAL**



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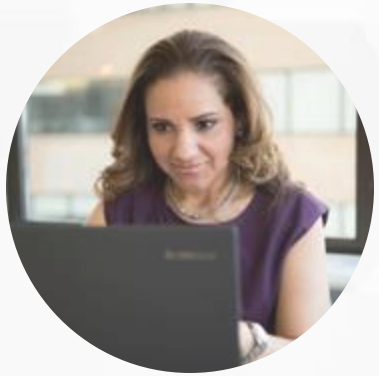
Organizations see more value from their M365 Collaboration Tools

PI provides a common framework to enable secure collaboration

Marco
IT Director

Drive IT Efficiency

Take the guess work out of security management. Built-in best practices help you stay aligned to security team priorities. Automated controls take complexity out of configuration. Stay focused on higher-value projects while PI takes care of the rest.



Dana
Security Officer

Reduce Risk

Automation ensures consistent policy implementation. Get the insight you need, fast. Security reporting makes audits easy, and dashboards monitor risk trends

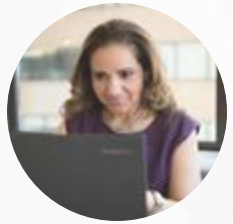
John
Business Owner

Increased ROI

Improve productivity and user adoption with the latest collaboration tools. Security features baked in so you can rest easy and focus on driving maximum business results.

Organizations see more value from their M365 Collaboration Tools

PI provides a common framework to enable secure collaboration



Benefits of PI	For IT Director	For Security Officer	Business Owner
Minimize exposure risk Monitor critical access control and sensitive data over time with dynamic dashboards. Get fast insights with tenant-wide object- or user-based search. Easily identify exposure – such as content with anonymous links or Teams with shadow users.	X		
Business-centric security & compliance Save time and cut through the noise. Issues are prioritized based on your regional, regulatory, or organizational framework. Admins are directed to focus on critical issues first and empowered with batch controls for fast resolution.	X		
Drive secure adoption for increased ROI Prove your outcomes and adoption in the Microsoft cloud with risk and activity trends. Time-based security dashboards demonstrate business impact of administrative actions and improvements across Teams, Groups, SharePoint, and OneDrive. Track your risk score to see how your Microsoft 365 security posture is changing.		X	X
Scale IT resources with automation & delegation We build in best practices and automate controls to take the complexity out of configuration. Provide key insights to stakeholders, and limit responsibilities for power users or delegated administrators based on department, role, or region! You can stay focused on higher-value projects.	X	X	X

Policies & Insights empowers organizations to find where sensitive cloud data exposure exists, track security risks, and automate policies to fix them.

AvePoint
Policies & Insights
For Microsoft 365

AvePoint PI & Microsoft 365

With PI, organizations can unleash user adoption and the power of Microsoft 365 sensitive information types and security controls, without becoming a security expert. PI guides admins towards appropriate controls with prioritized insights. Set robust controls from one place, that get enforced automatically.

TAP INTO VALUABLE M365 DATA TO PRIORITIZE INSIGHTS

We aggregate sensitive information types and data from Microsoft's own activity feed to keep you focused on what matters

PUT MICROSOFT SECURITY CONTROLS TO WORK

With central access to critical configurations for guest access, sharing, and more – we make it easy to get the control you need

REDUCE IT WORKLOAD FOR ONGOING MANAGEMENT

Prevent configuration drift with policies that get enforced automatically. We enable control, without impeding user adoption

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Break down security barriers to adoption with PI

Operationalized Security | Secured Collaboration | Scaled Resources | Justified Investment

Operationalize security

Aggregate and streamline Security and Compliance Center, permission and ownership, activity reports.

Prioritize what's sensitive

Prioritize sensitive information based on exposure. Easily analyze permissions, access, links and external users.

IT works smarter, not harder

Automate ***enforcement*** of security rules based on organizational needs. Tailor policies to give freedom to users while reducing risk.

Justification of IT investments and usage

Easily export security trends to prove risk reduction over time.

IT & Security teams' path to enabling collaboration freedom.

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