

Implementing Purview Information Protection with the Traffic Light Protocol

TechCon 365 Dallas
November 15, 2024



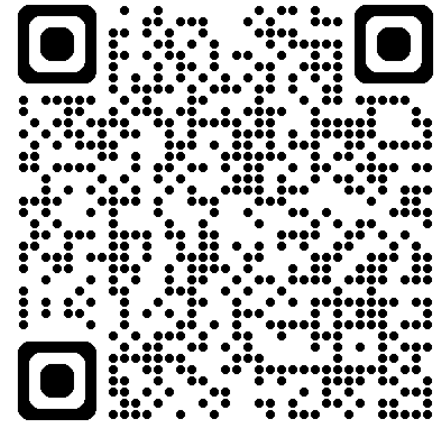
See more.

A magnifying glass graphic with a blue handle and a dark blue frame, positioned over a vertical blue stripe. The text "See more." is written in white, lowercase letters within the lens of the magnifying glass.

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3 Key Takeaways

1

Information Protection is something many organizations are licensed for but haven't implemented.

2

Cybersecurity is not one size fits all. Make your protection appropriate to the content.

3

Copilot Readiness is driving much of this, but safe external sharing is another big driver.

Agenda

- Introductions
- What and Why of Information Protection
- Microsoft Purview
- Traffic Light Protocol
- Implementation
- Summary, Q&A and Closing

Why is Information Protection Important?

- Every organization has different levels of sensitivity of content
- How you manage access to content should be different depending on its sensitivity

Low

- Training with no corporate IP – workplace safety, wellness
- External stakeholder feedback

Medium

- General business data

High

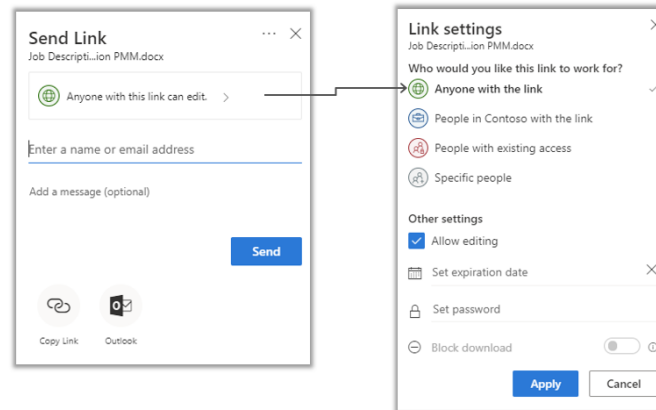
- Personal Health Information
- Employee HR data
- Financial data

Key Drivers for Information Protection

Copilot Readiness



External Sharing



Cybersecurity



Information Protection



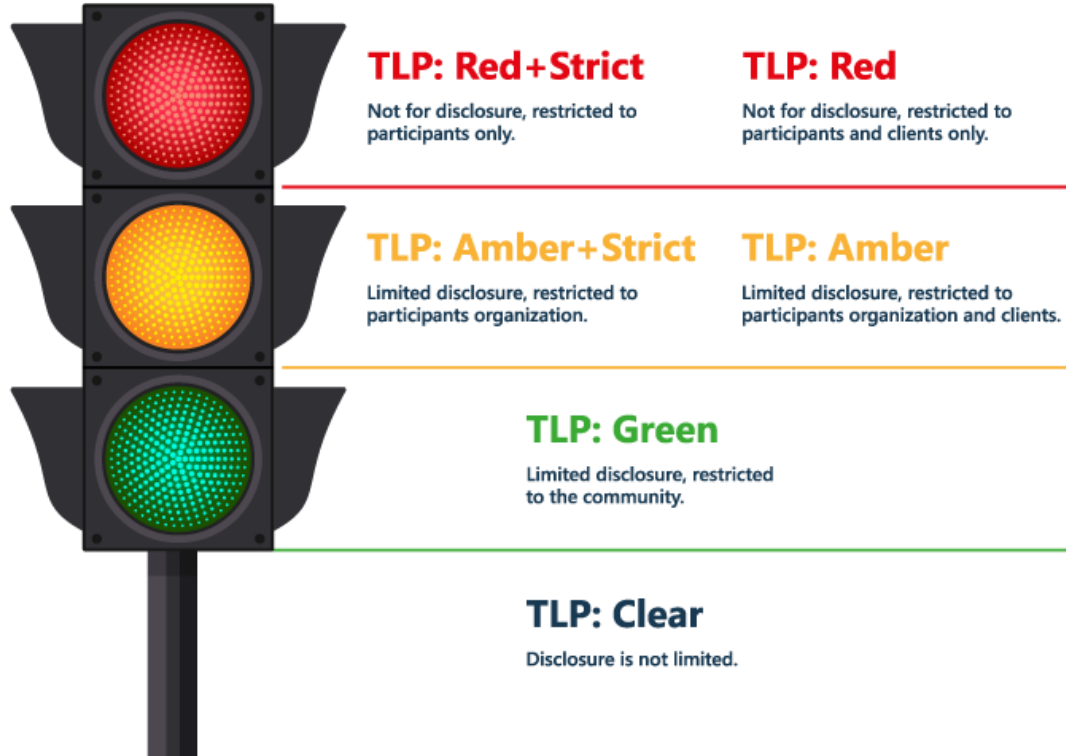
- Data Discovery and Classification
- Sensitivity Labels
- Data Loss Prevention
- AI Powered Classifiers

Data Discovery and Classification



- Identify and classify sensitive data
- Automated scanning, classification, and cataloging of data assets
- Comprehensive platform for data governance across hybrid and multi-cloud environments

Sensitivity Labels



- Apply labels to data to enforce protection policies
- Control how content is handled and shared
- Designed to protect sensitive information

Data Loss Prevention (DLP)



- Prevent data breaches by monitoring and controlling the sharing of sensitive information
- Meet compliance requirements
- Risk management

AI-Powered Classifiers



- Utilize AI to accurately classify data based on content and context
- Enhance the precision of data protection measures
- An emerging technology



**Microsoft
Purview**



Data Security



For information and cybersecurity teams



**Data
Governance**



For data consumers, data engineers, data officers



**Risk &
Compliance**



For risk, compliance, and legal teams

Purview Labels

Retention

- Manage lifecycle of data
- Specify how long content should be kept and then what actions should be taken
- Ensure compliance with regulations and internal policies
- Typically many (could be hundreds) of labels

Sensitivity

- Designed to protect sensitive information
- Classifying and secure
- Control how content is handled and shared
- Small number of labels

Microsoft Purview Information Protection

- Discover, classify, and protect sensitive data
- Data Discovery
 - Identify and classify sensitive data
 - On-premises, in the cloud, or in hybrid environments
- Sensitivity Labels
 - Apply labels to data to enforce protection policies like encryption, access restrictions, and visual markings
- Data Loss Prevention (DLP)
 - Prevent data breaches by using DLP policies to monitor and control the sharing of sensitive information
- AI-Powered Classifiers
 - Use AI to accurately classify data based on content and context, enhancing the precision of data protection measures



Purview Licensing Recommendations



Microsoft licensing is never a simple topic, and Purview is no exception. A few good resources to help navigate this are:

[Microsoft Compliance and Information Protection Licensing Guide](#)

[All About Microsoft Purview Sensitivity Labels](#)

[Microsoft 365 Licensing](#)



The simple version: users require E3 or above to apply a label manually, while automatic policy-driven application of labels requires E5

Microsoft 365 E3 or E5 compliance licenses can be added to other licenses

Licensing Resources

- [Compare Microsoft 365 Enterprise Plans | Microsoft 365](#)
- [Modern-Work-Plan-Comparison-ENT-1-16-2024.pdf](#)
- [Home | M365 Maps](#)

Preparing for Copilot Success

1. Consolidate and Clean

We'll help you connect all your data sources in M365, inventory outdated and irrelevant files, and ensure that only the most relevant data is accessible to Copilot.

2. Secure and Label

Our team will implement security protocols, reduce oversharing, and apply Purview sensitivity labelling to safeguard critical files and maintain access control.

3. Train Users

We'll provide training on best practices, showing users the key differences between ChatGPT and Copilot and ensuring they understand how to get the best results from the AI tool.

4. Improve Governance

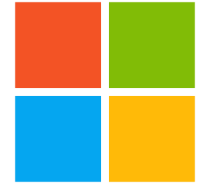
Our team will work with you to establish M365 governance tools that standardize policies and automatically enforce rules for future files, workspaces, and permissions.

[Copilot Readiness | Envision IT](#)

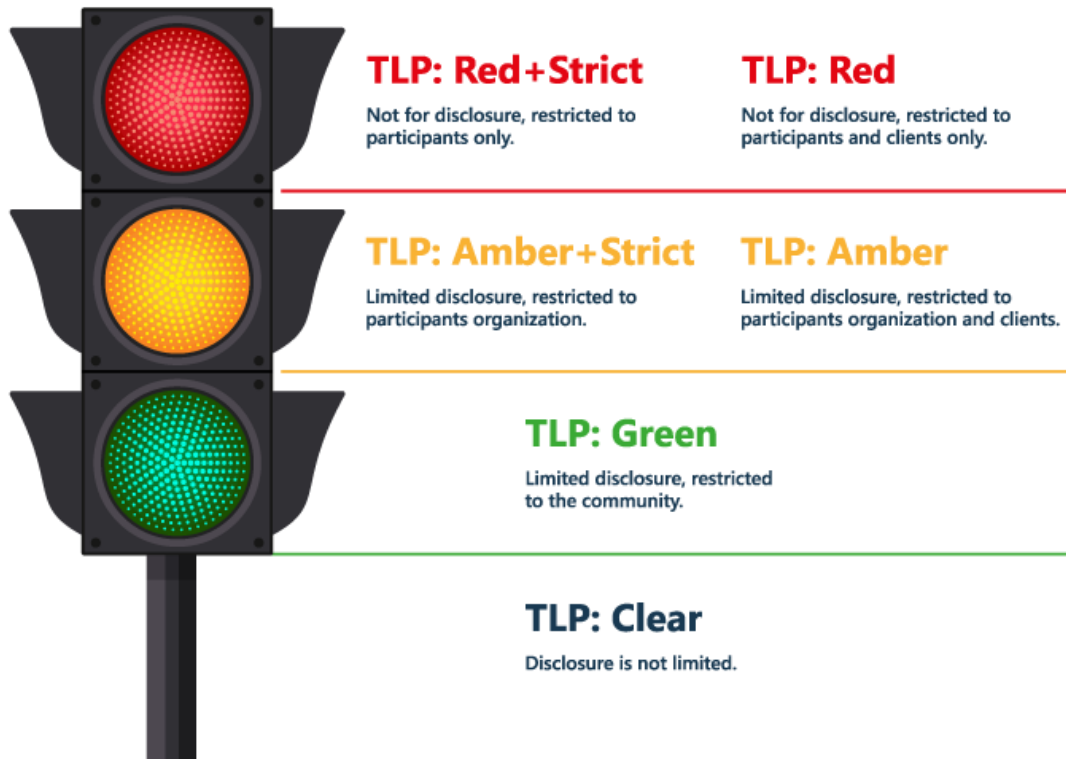
Traffic Light Protocol: Simplifying Sensitivity Labels in Microsoft 365

The **Traffic Light Protocol (TLP)** is a classification system that uses color-coded labels to categorize and control the sharing of sensitive information.

- Developed by the UK's National Infrastructure Security Coordination Centre in the early 2000s
- Encourages sharing of sensitive information
- Adopted by the US Cybersecurity and Infrastructure Security Agency (CISA)
- Not a technical solution and not part of Purview



TLP Labels and their Meanings



- **Red:** Most sensitive information; requires MFA and document encryption
- **Amber:** Sensitive information; external sharing allowed with MFA
- **Green:** Less sensitive; accessible to guests without MFA
- **Clear:** Public information; accessible without restrictions

TLP and External Access in Microsoft 365

Below is a suggested implementation of TLP for defining guest access in Microsoft 365:

TLP	External Access	Guests Require MFA	Document Encryption	M365 Member Licensing
Red+Strict	No	N/A	Yes	E5
Red	Yes	Yes	Yes	E5
Amber+Strict	No	N/A	No	E3
Amber	Yes	Yes	No	E3
Green	Yes	No	No	E3
Clear	Yes	No	No	N/A

TLP Green



- Low sensitivity content
- Can be shared externally
- No MFA requirement for external guests

TLP Amber



- Medium sensitivity content
- Can be shared externally
- External guests require MFA
- Strict doesn't allow external sharing

TLP Red



- High sensitivity content
- Can be shared externally
- External guests require MFA
- Office and PDF documents are encrypted
- Strict doesn't allow external sharing

Benefits of TLP in Microsoft 365



Clear, consistent classification
for sensitive data

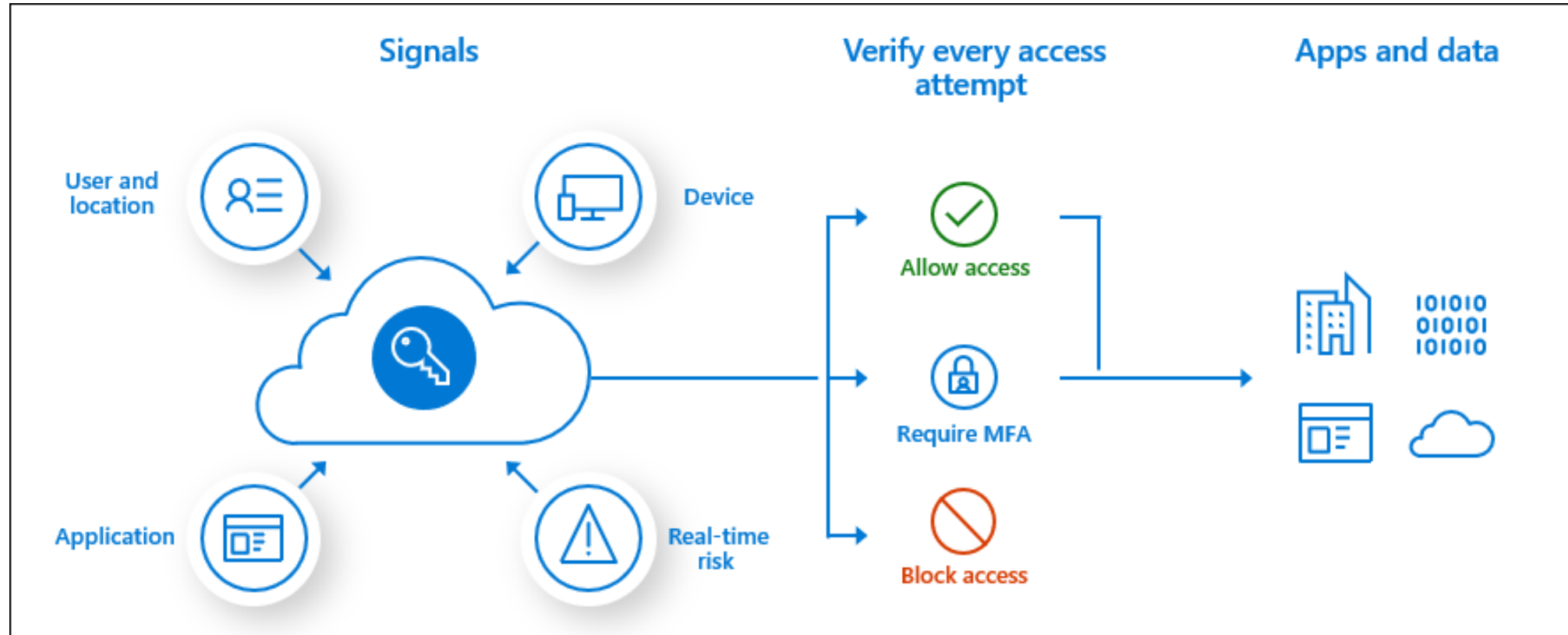


Secure external sharing with
appropriate MFA and
encryption



Enhanced governance and
protection via Microsoft
Purview

Conditional Access Policies



[Set up Microsoft Entra Conditional Access | Microsoft Learn](#)

Authentication Context

Sensitivity Label

- Defined in Purview

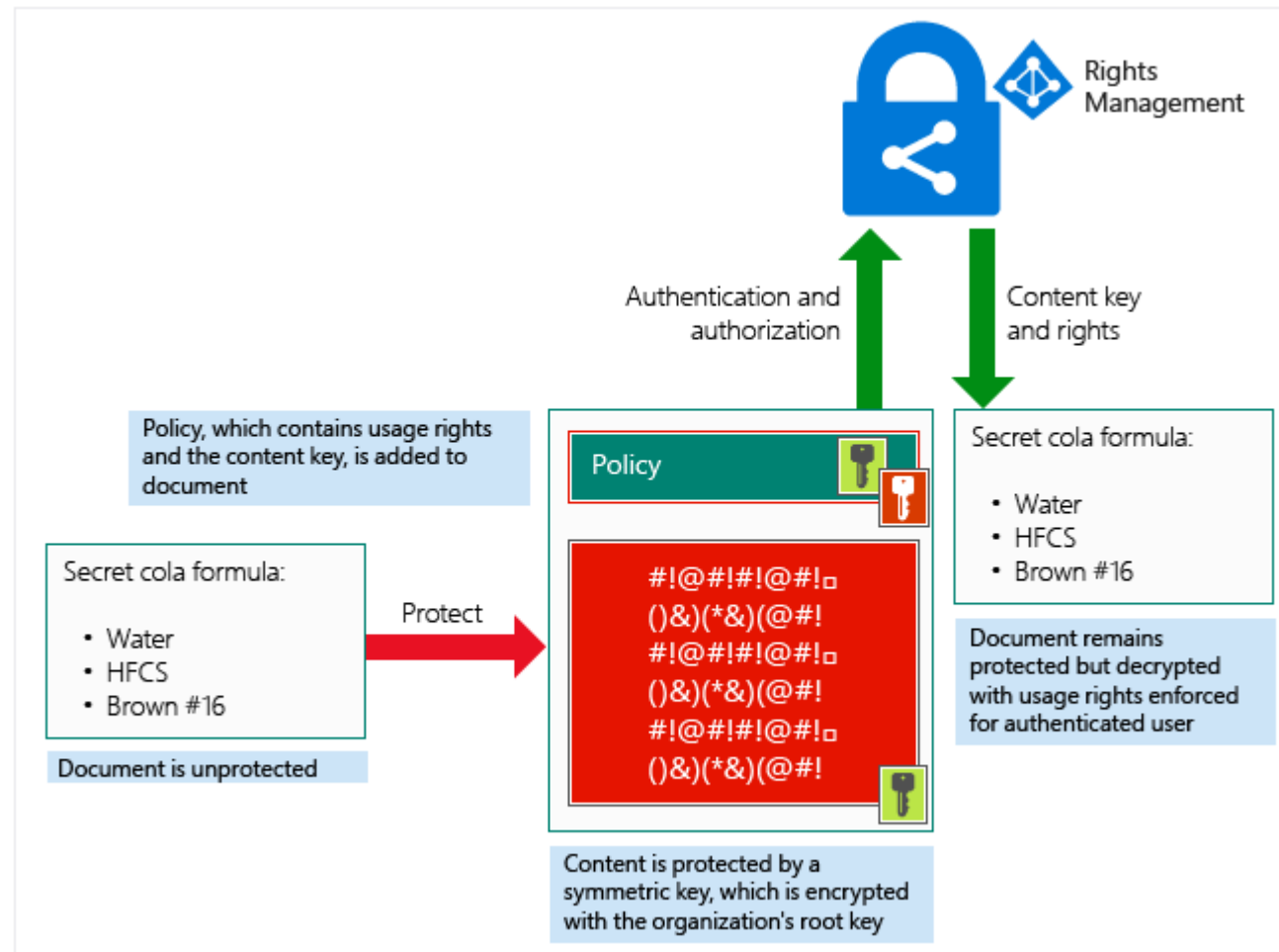
Authentication Context

- Connects labels and policies


Conditional Access Policy

- Defined in Entra ID

Data Encryption



Phase One Implementation of Purview

1. Define Container Labels  Create Green and Amber labels in Purview for SharePoint sites and containers, setting rules to determine external access and MFA requirements.
2. Establish Authentication Contexts  Set specific authentication contexts for each label to ensure appropriate security checks like multi-factor authentication are enforced for external users.
3. Build Conditional Access Policies  Create policies that apply the correct access control based on membership and guest status.
4. Inventory and Label Existing Sites  Audit current SharePoint and Teams sites, applying appropriate labels based on their sensitivity.

Phase Two Implementation of Purview

1. Define Content Labels → Extend TLP sensitivity labels to individual documents by configuring Purview to recognize and protect highly sensitive content.
2. Apply Access Controls & Document Marking → Configure Azure Information Protection and Rights Management to enforce encryption and granular permissions.
3. Set Default Label Rules → Link document labels to container-level labels, ensuring documents inherit sensitivity levels from the SharePoint site or container they reside in.
4. Configure Azure Services → Set up Azure Information Protection and Rights Management for automatic labeling and encryption of Red-level documents.
5. Auto-Labeling → Enable automatic labeling based on predefined conditions, using E5 licensing for consistent protection.
6. Implement Add'l Authentication Contexts → Add further conditional access policies to provide secure external access and MFA based on sensitivity.

Midsize Ontario City

Large Scale M365 Implementation

- Governance Solution for Teams/SP
 - Proliferation of Ad Hoc Teams and SP Sites
 - Leverage Properly Defined SP & Teams Structure
- Migration into New Structure
 - Multiple Meetings with large number of groups for planning purposes
 - Actual Migration

Teams First IA

- Logical organization of Content
- Intuitive Navigation, Search
- Teams, Hub sites, SharePoint

Adoption & Governance

- Orchestry for M365 Adoption and Governance
- Templates, Provisioning
- Self-service
- End-to-end lifecycle Management
 - Templates
 - Approvals
 - Policies for Naming Conventions
 - Archiving
- Policy Enforcement
- User Management

Federal / Provincial / Municipal Agency

Large Scale ECM Implementation

- Previously completed ECM Strategy engagement
- Defined new modern IA
- Migration into New Structure
 - Multiple Meetings with large number of groups for planning purposes
 - Actual Migration

Purview Implementation

- Information Protection Workshop
- Configuration of Microsoft Purview sensitivity labels
- Entra ID Authentication Contexts and Conditional Access Policies
- Rights Management for document encryption and watermarking
- External sharing strategy and information architecture
- EUM Data Room POC with trial license

Adoption & Governance

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Provincial Healthcare Agency

SharePoint Online Migration

- 19 SharePoint on premises farms 2010 through 2016
- Migrating into SharePoint Online
- Including Forms and Workflows
- All farms have been independently managed
 - Migration into New Structure
 - Multiple Meetings with large number of groups for planning purposes
 - Actual Migration

Purview Implementation

- Already had sensitivity labels established
- Setting up authentication contexts
- Conditional Access Policies
- eDiscovery

Members Portal

- Migrated off SharePoint 2013 to SharePoint Online
- Users were created as cloud only guest accounts
- SharePoint Online Communication Sites
- EUM Product used for user management
 - Leads are able to manage their own users

Microsoft Reporting

- [Data access governance reports for SharePoint sites - SharePoint in Microsoft 365 | Microsoft Learn](#)
- Sharing links reports
 - "Anyone" links
 - "People in the organization" links
 - "Specific people" links shared externally
- Sensitivity labels applied to files

Third Party Tools

ShareGate
by **workleap**

 AvePoint
Insights
For Microsoft 365

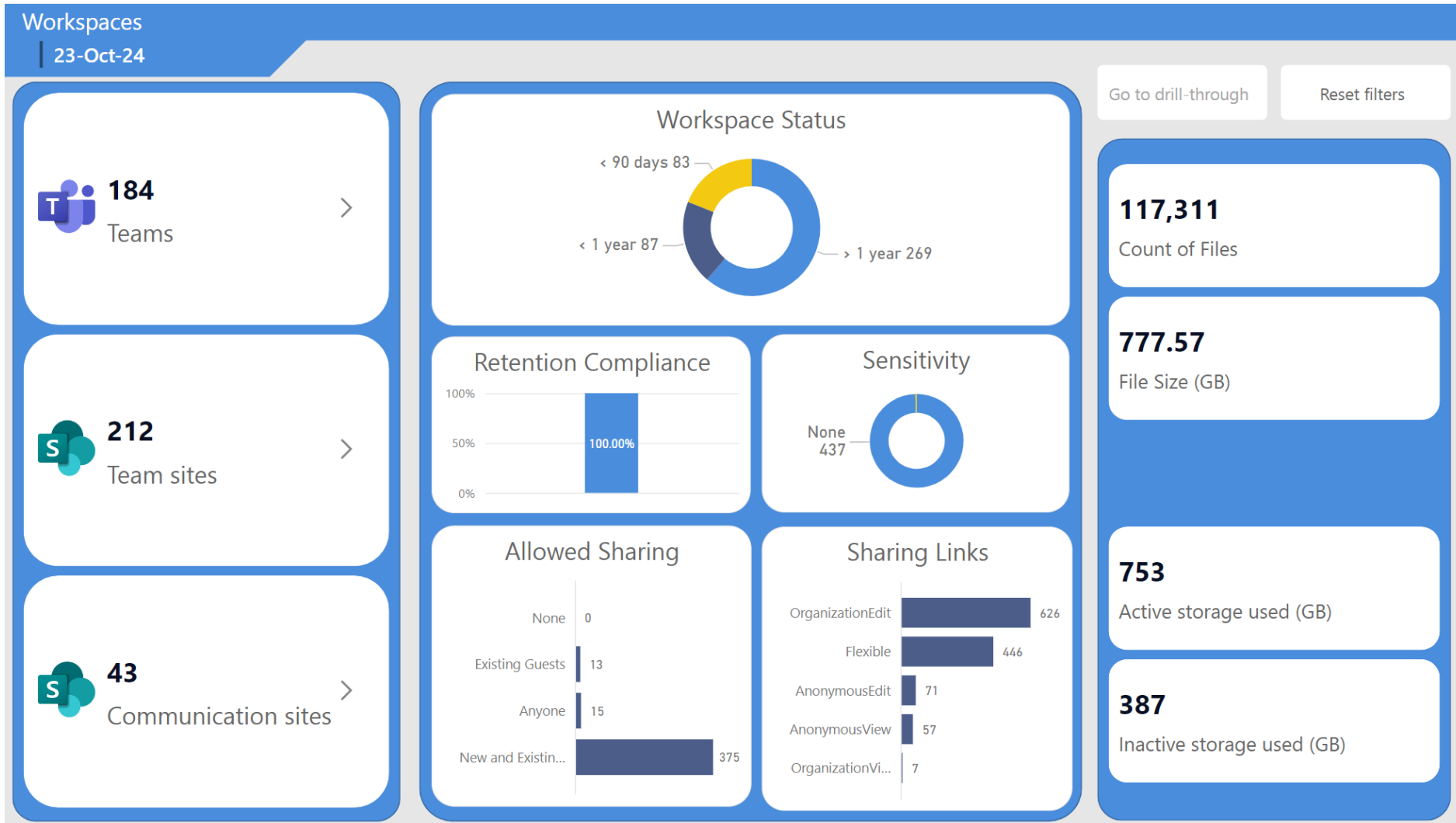
 **Orchestry**


Rencore
governance

 **envision IT**

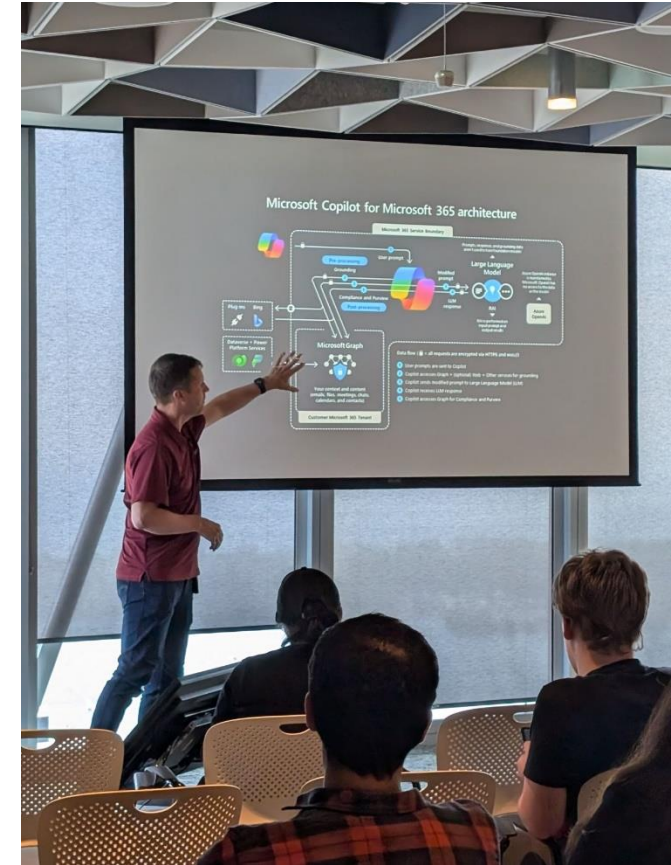
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Power BI Microsoft 365 Dashboard



Purview Information Protection Workshop

- Learn about:
 - Intro to Purview Information Protection
 - Identify and create sensitive information types
 - Create sensitivity labels following the Traffic Light Protocol approach and use auto-labeling policies based on these labels
 - Intro to authentication contexts and conditional access policies
 - Intro to DLP



Envision IT Purview Information Protection Engagement

- Licensing and tenant setup review and recommendations
- Information Protection Workshop
- Configuration of Microsoft Purview:
 - Sensitivity labels
 - Entra ID Authentication Contexts and Conditional Access Policies
 - Rights Management for document encryption and watermarking
 - Microsoft 365, Teams, and SharePoint configuration
- External sharing strategy and information architecture

3 Key Takeaways

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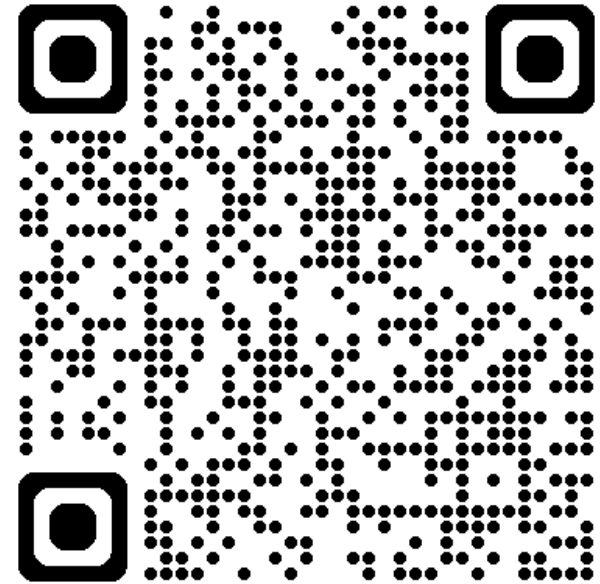
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Thank you!

Any Questions?



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