



IN GRAM CLOUD *More as a Service*

December 12, 2024

Microsoft Purview Information Protection

Diego Lens
Ingram Micro Cloud BeNeLux

Course will start at 9h15

More as a Service

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More as a Service

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Diego Lens

- 24 Years working in Distribution
- Cloud Enablement
- Sales/Technical Trainings
- Microsoft Azure
- Microsoft 365
- Azure Virtual Desktop

- diego.lens@ingrammicro.com
- [linkedin.com/in/diegolens](https://www.linkedin.com/in/diegolens) 



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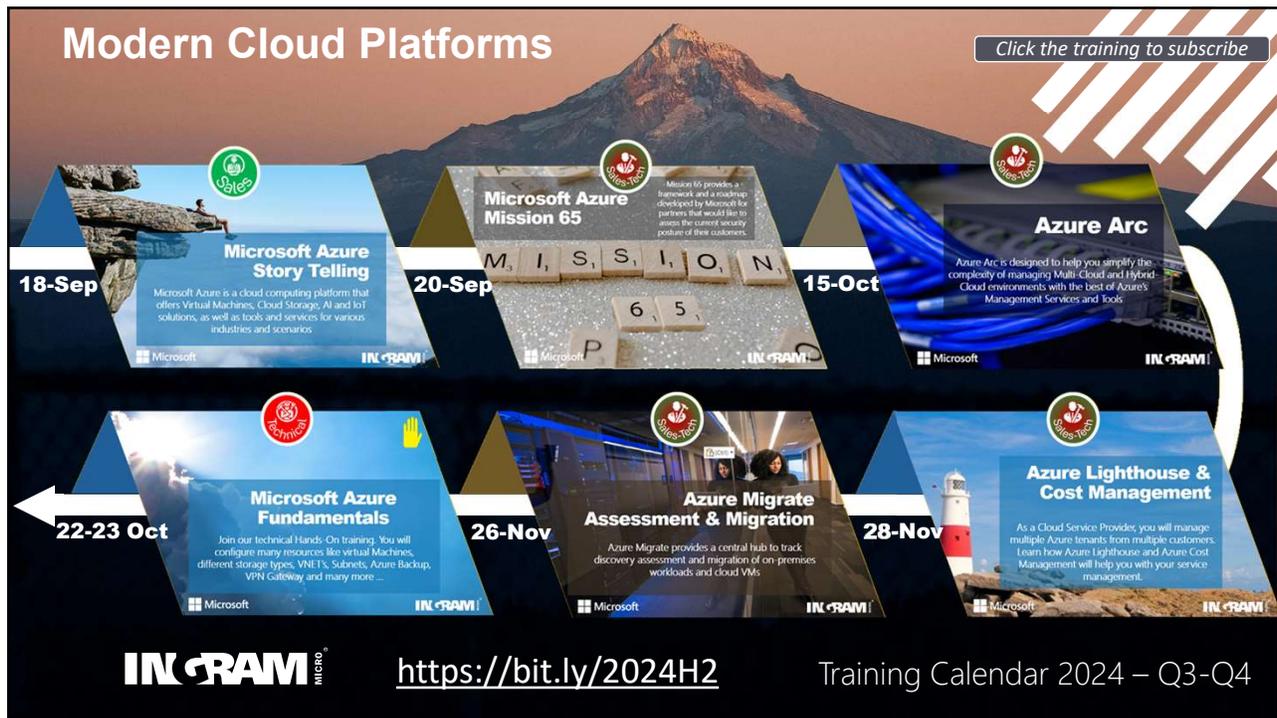
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Modern Cloud Platforms

Click the training to subscribe



18-Sep **Microsoft Azure Story Telling**
Microsoft Azure is a cloud computing platform that offers Virtual Machines, Cloud Storage, AI and IoT solutions, as well as tools and services for various industries and scenarios.

20-Sep **Microsoft Azure Mission 65**
Mission 65 provides a framework and a roadmap developed by Microsoft for partners that would like to assess the current security posture of their customers.

15-Oct **Azure Arc**
Azure Arc is designed to help you simplify the complexity of managing Multi-Cloud and Hybrid-Cloud environments with the best of Azure's Management Services and tools.

22-23 Oct **Microsoft Azure Fundamentals**
Join our Technical Hands-On training. You will configure many resources like virtual Machines, different storage types, VNETs, Subnets, Azure Backup, VPN Gateway, and many more...

26-Nov **Azure Migrate Assessment & Migration**
Azure Migrate provides a central hub to track discovery, assessment and migration of on-premises workloads and cloud VMs.

28-Nov **Azure Lighthouse & Cost Management**
As a Cloud Service Provider, you will manage multiple Azure tenants from multiple customers. Learn how Azure Lighthouse and Azure Cost Management will help you with your service management.

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Seamless Security

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25-Sep **Microsoft 365 Story Telling**
Learn the stories you can use to explain the most important security features in a Microsoft 365 offering

6-Nov **Microsoft Intune**
Microsoft Intune is a cloud-based service that manages and secures endpoints, applications and data across your organization

27-Nov **Microsoft Defender for Business**
Microsoft Defender for Business is a security solution included in Microsoft 365 Business Premium to help protect small businesses against cyber security threats

13-Nov **Microsoft Entra Suite**
Microsoft Entra Suite is the new product family that encompasses all of Microsoft's identity and access management capabilities

11-Dec **Microsoft Defender XDR**
Microsoft Defender XDR is a set of security products and solutions that protect your organization from cyberattacks

20-Nov **Microsoft Purview Information Protection**
Microsoft Purview Information Protection is a cloud-based service that helps you discover, classify, protect and govern sensitive data across your hybrid environment

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9-Oct **Windows 365 and Azure Virtual Desktop Story Telling**
Windows 365 and Azure Virtual Desktop are bringing Desktop Virtualization to the next level

4-Dec **Azure Virtual Desktop Setup a POC**
Learn how to install your first Azure Virtual Desktop installation. Discover the AVD components like a Workplace, Hostpools, Application Groups, FSLogix

18-Dec **Azure Virtual Desktop Advanced Topics**
Learn how to do a production installation with Azure Virtual Desktop. Learn the concepts like Golden Images, AutoScaling, Printing and Monitoring

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Artificial Intelligence

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2-Oct **Microsoft Copilot: Story Telling**
Microsoft Copilot is an AI assistant that boosts productivity by integrating with Microsoft apps like Word, Excel, and PowerPoint. It helps with tasks such as drafting emails, generating reports, and analyzing data, making work more efficient and less stressful.

16-Oct **Copilot for Microsoft 365 Technical**
Copilot for Microsoft 365 boosts productivity by automating tasks and offering intelligent insights within Microsoft 365 apps. It seamlessly integrates with tools like Word, Excel, and Outlook to streamline your workflow.

22-Nov **Develop Power Apps with Copilot Integration**
Learn how to develop Low Code Applications using Power Apps with Copilot Integration.

tba **Microsoft Fabric**
Microsoft Fabric is an end-to-end data analytics platform that integrates data engineering, data warehousing, and data science to streamline data workflows and enhance business insights.

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Ingram Micro Cloud

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24-Sep **Quarterly Update**
The Microsoft cloud landscape is changing rapidly. To make sure you don't miss any program change, incentive or product update, we are organizing a quarterly update.

24-Oct **Ingram Micro Cloud Marketplace**
The Ingram Micro Cloud Marketplace is a top-of-the-line platform with lots of cool features. It's our mission to keep on improving our platform and to keep expanding the possibilities.

26-Sep **NIS2 directive: How to achieve compliance**

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Are you organizing your own event for your customers ?

Searching for a speaker ?

diego.lens@ingrammicro.com

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Agenda

- Information Protection Challenges
- Microsoft Purview Information Protection
- Know Your Data
- Protect Your Data
- Microsoft Purview Roadmap
- Prevent Data Loss
- Govern Your Data
- Microsoft Purview Licensing

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Protecting data is challenging

#1

Protecting and governing sensitive data is biggest concern in complying with regulations¹

63%

of organizations fear data leak/spillage during the pandemic²

88%

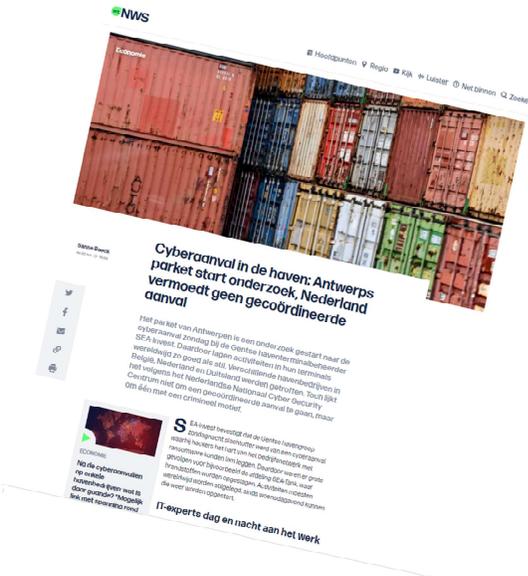
of organizations no longer have confidence to detect and prevent loss of sensitive data³

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¹ Microsoft GDPR research, 2017
² Microsoft COVID Security Priorities Survey 2020
³ Forrester. Security Concerns, Approaches and Technology Adoption. December 2018

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Cyber Attacks



05-06-2020 | door: Redactie

Conduent is getroffen door Maze ransomware aanval

Outsourcer Conduent meldt dat zijn Europese activiteiten zijn getroffen door Maze ransomware waarbij sprake is van het lekken van interne bedrijfsdocumenten.

Emissisoft, evenals het beveiligingsbedrijf Bad Packets, melden dat Conduent lijkt te zijn getroffen door Maze ransomware. Maze heeft eerder Cognizant in april getroffen.

Bij de Conduent-aanval hebben de hackers twee zip-bestanden gepubliceerd over documenten die betrekking hebben op het werk van het bedrijf in Duitsland naar verluidt over Vodafone Deutschland.

Deze bestanden zijn woensdag vrijgegeven op een site die Maze-aanvallen publiceert.

Conduent is opgericht als nieuwe bedrijf nadat Xerox in 2016 zijn outsourcingactiviteiten voor bedrijfsprocessen had stopgezet.

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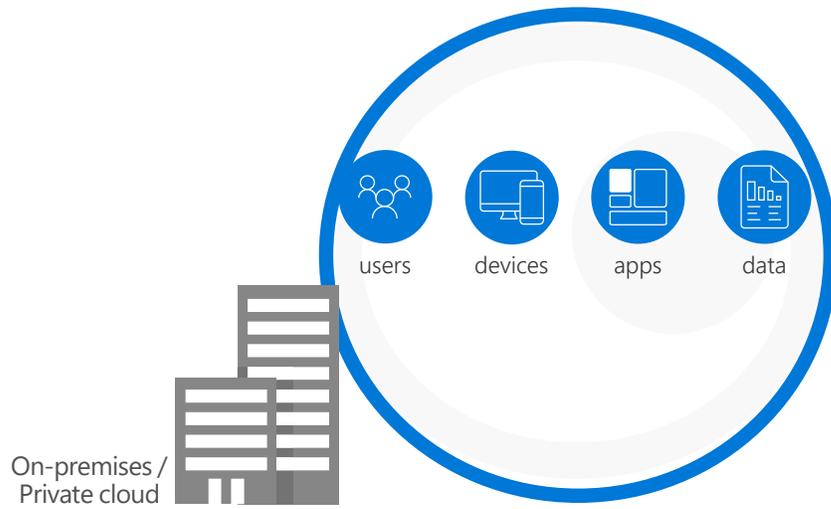
Information Protection Challenges



- ✓ Rapid shift in how people work
- ✓ Cost of breaches and regulations
- ✓ Complex patch work of 'bolt-on' solutions
- ✓ Balance security with productivity
- ✓ Struggle with 'dark data'
- ✓ Correlating various signals to assess risk

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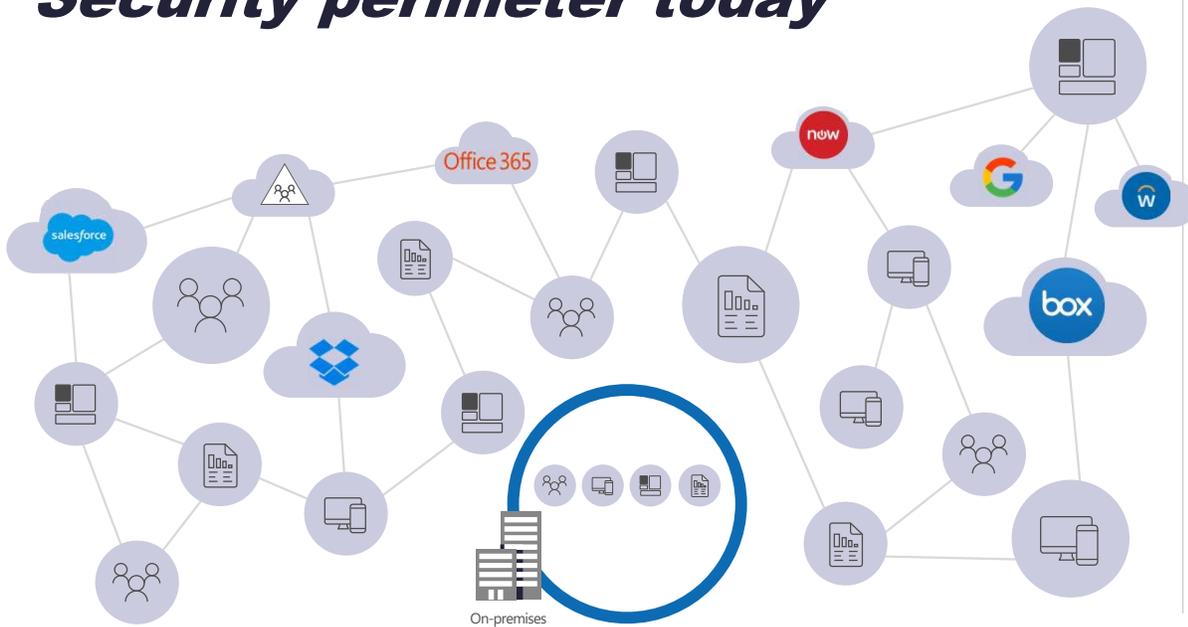
Security perimeter in the past



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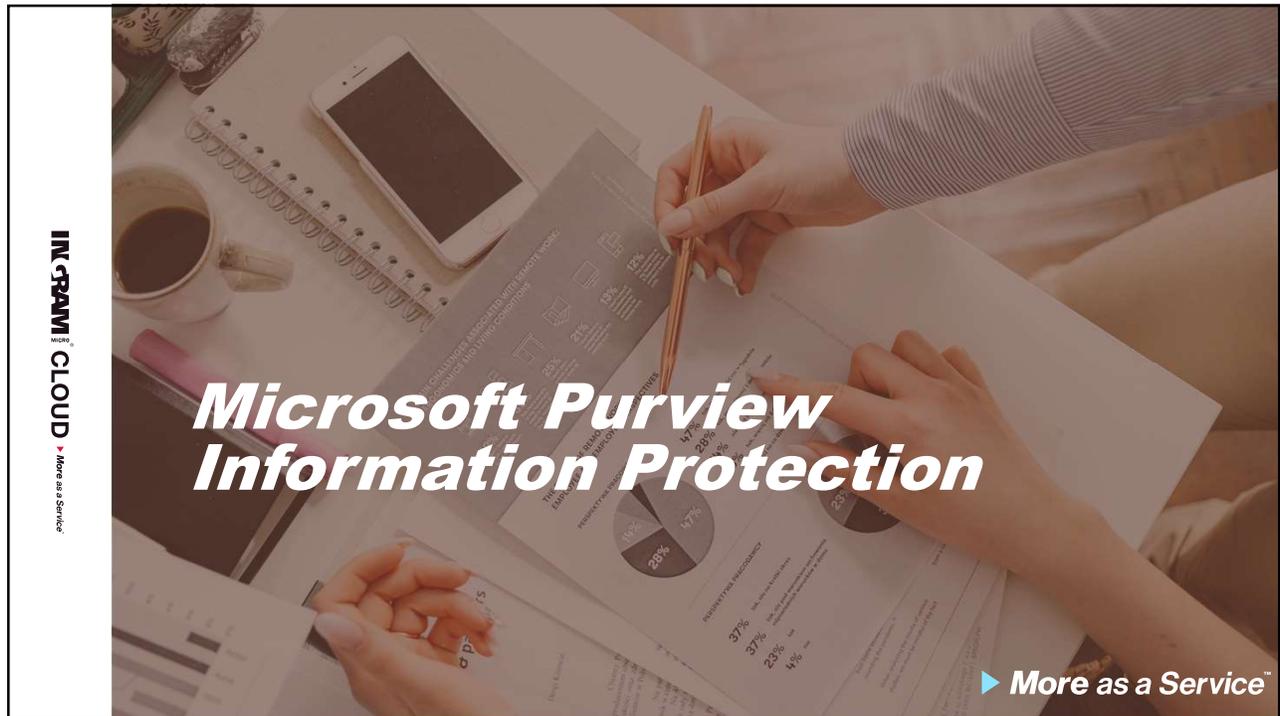
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Security perimeter today



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Microsoft Security Area's

	+	PROTECT USERS	+	PROTECT DEVICES	
	+	PROTECT EMAIL & DOCUMENTS	+	MANAGE ENTERPRISE SECURITY	

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Microsoft Security Solutions





IDENTITY AND ACCESS MANAGEMENT





THREAT PROTECTION







INFORMATION PROTECTION





SECURITY MANAGEMENT





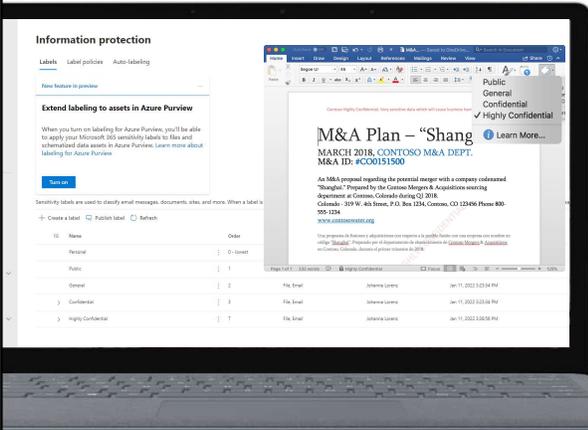
Microsoft 365
CLOUD
Move as a Service

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Microsoft Purview Information Protection

A built-in, intelligent, unified, and extensible platform and solution to protect sensitive data



- 

Built in

Built-in labeling and protection experience in Office apps, Office 365 services, other MS services like Power BI, Edge, and Windows
- 

Intelligent

Accuracy in classification via ML based trainable classifiers exact data match and named entities
- 

Unified

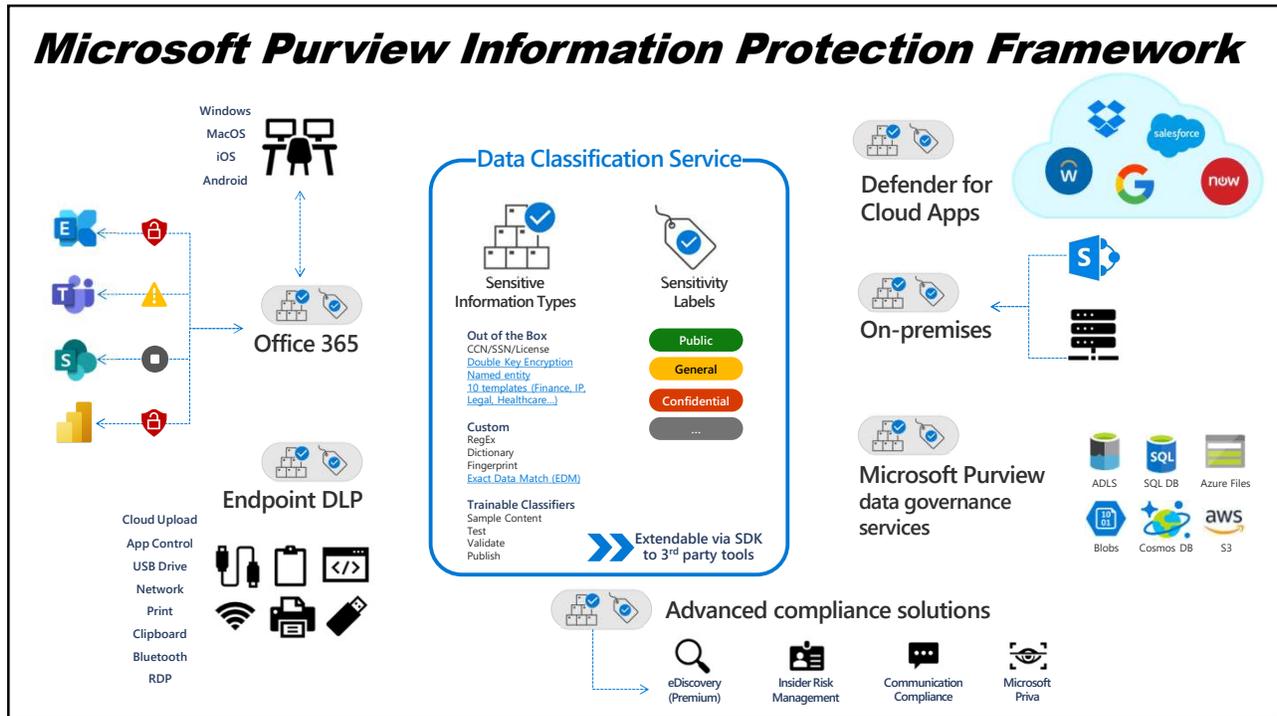
Single admin console to configure and manage your policies and view analytics across on-premises, Office apps, Microsoft 365 services, third-party services (via Microsoft Defender for Cloud Apps), and devices
- 

Extensible

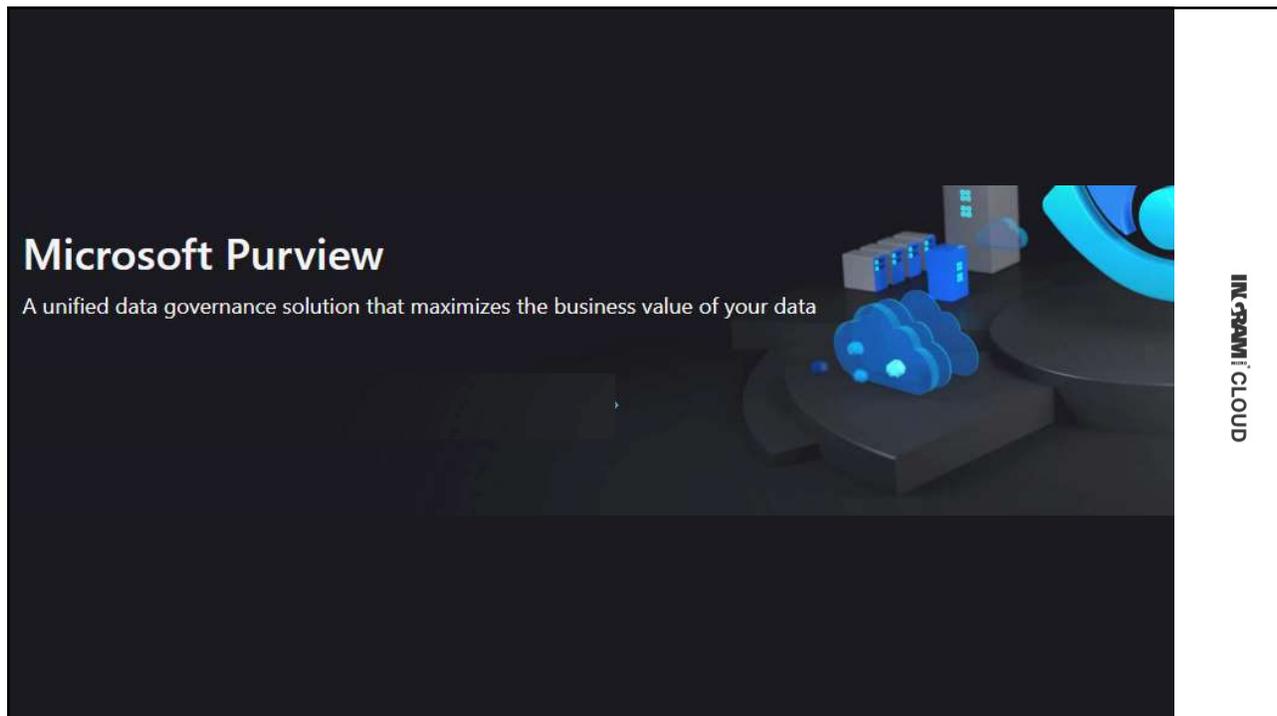
MIP SDK extends the protection experience, in a consistent way, to popular non-Microsoft apps and services

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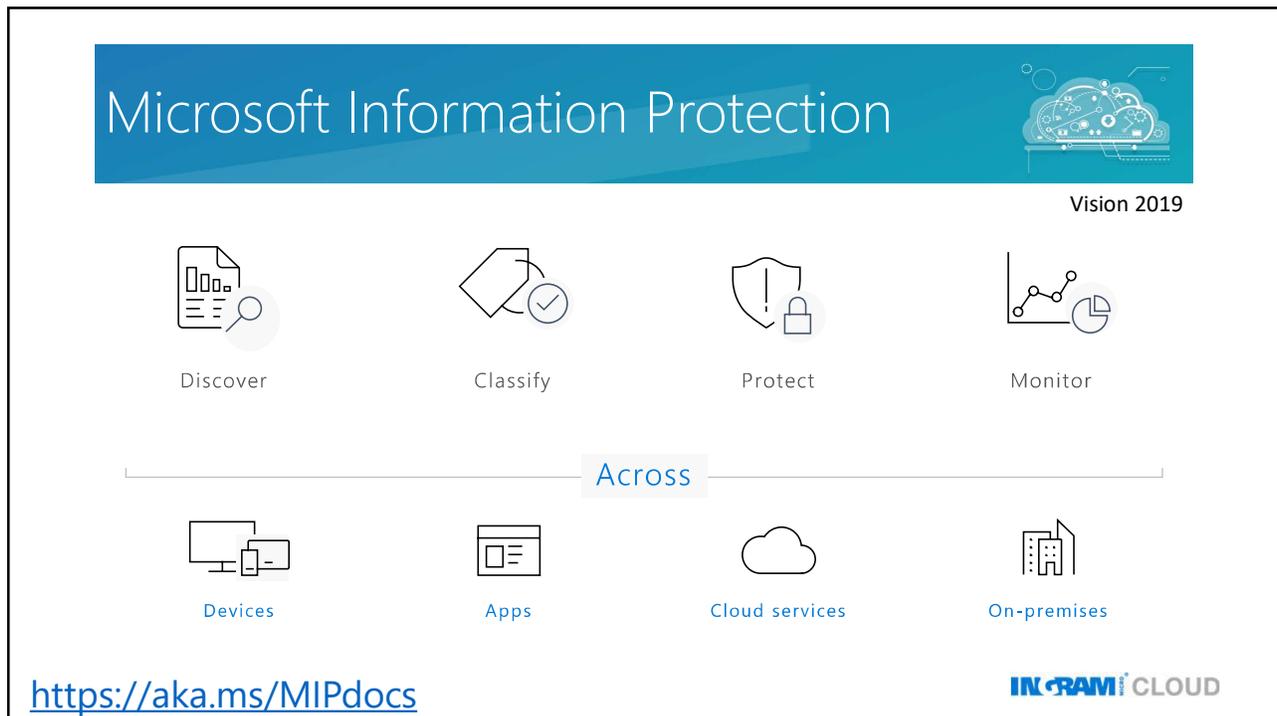
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Microsoft Purview Product Suite

Current Name	New Name	Current Name	New Name
Double Key Encryption for Microsoft 365	Microsoft Purview Double Key Encryption	Microsoft 365 Basic Audit	Microsoft Purview Audit (Standard)
Records Management in Microsoft 365	Microsoft Purview Records Management	Microsoft 365 Advanced Audit	Microsoft Purview Audit (Premium)
Office 365 Core eDiscovery	Microsoft Purview eDiscovery (Standard)	Microsoft 365 Communication Compliance	Microsoft Purview Communication Compliance
Office 365 Advanced eDiscovery	Microsoft Purview eDiscovery (Premium)	Microsoft Compliance Manager	Microsoft Purview Compliance Manager
Microsoft 365 Information Barriers	Microsoft Purview Information Barriers	Office 365 Customer Lockbox	Microsoft Purview Customer Lockbox
Microsoft Information Protection	Microsoft Purview Information Protection	Azure Purview Data Catalog	Microsoft Purview Data Catalog
Microsoft 365 Insider Risk Management	Microsoft Purview Insider Risk Management	Microsoft 365 Data Connectors	Microsoft Purview Data Connectors
Azure Purview portal	Microsoft Purview governance portal	Microsoft Information Governance	Microsoft Purview Data Lifecycle Management
Microsoft 365 compliance center	Microsoft Purview compliance portal	Office 365 Data Loss Prevention	Microsoft Purview Data Loss Prevention
Azure Purview Data Insights	Microsoft Purview Data Estate Insights	Azure Purview Data Map	Microsoft Purview Data Map
Microsoft 365 Customer Key	Microsoft Purview Customer Key		

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Microsoft Information Protection

Know Your Data
Understand your data landscape and identify important data across your hybrid environment

Prevent Data Loss
Detect risky behavior and prevent accidental oversharing of sensitive information

Protect Your Data
Apply flexible protection actions including encryption, access restrictions and visual markings

Govern Your Data
Automatically retain, delete, and store data and records in a compliant manner

Powered by an intelligent platform
Unified approach to automatic data classification, policy management, analytics and APIs

<https://aka.ms/MIPdocs>

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Microsoft Purview Information protection & governance

Protect and govern data wherever it lives (vision 2022)

Know Your Data
Understand your data landscape and identify important data across your hybrid environment

Protect Your Data
Classify data with sensitivity labels, apply flexible protection, encryption, access restrictions and visual markings

Prevent Data Loss
Prevent unauthorized or accidental sharing, transfer, or use of sensitive data with policies

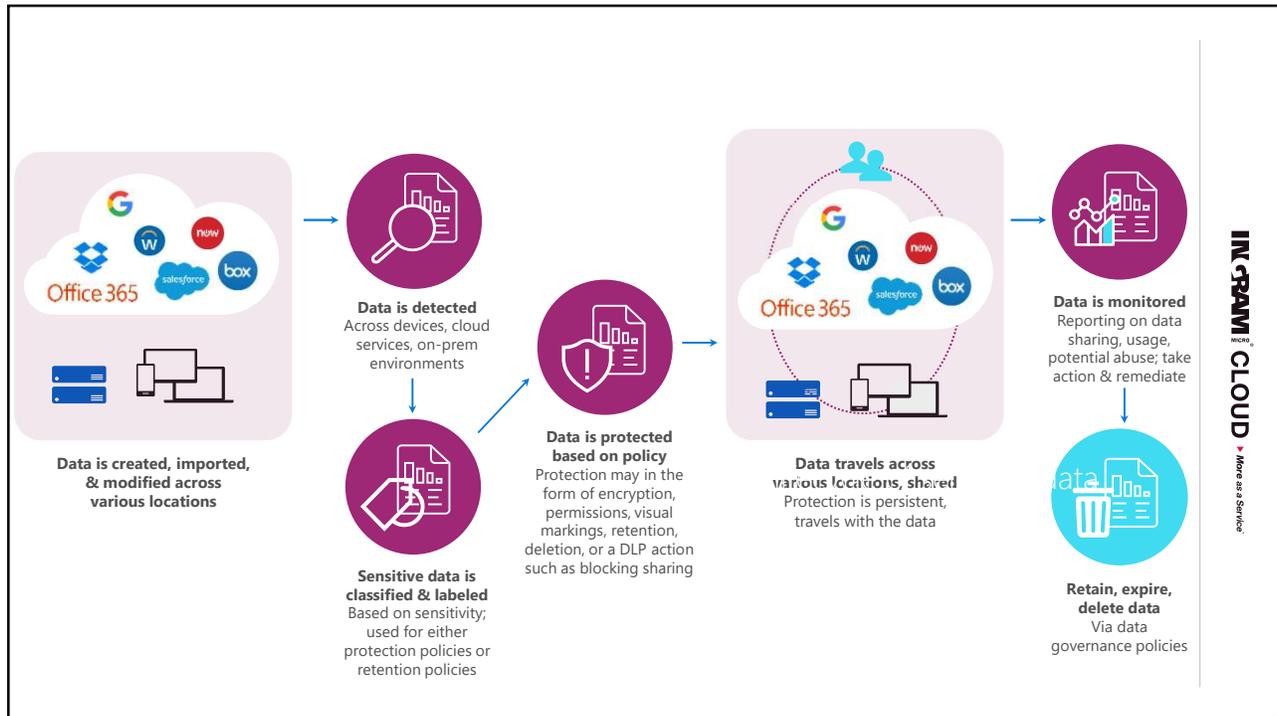
Govern Your Data
Automatically retain, delete, and store data and records in a compliant manner

POWERED BY AN INTELLIGENT PLATFORM
Unified approach to automatic data classification, policy management, analytics, and APIs

Devices Apps Cloud services On-premises ISV/3rd party

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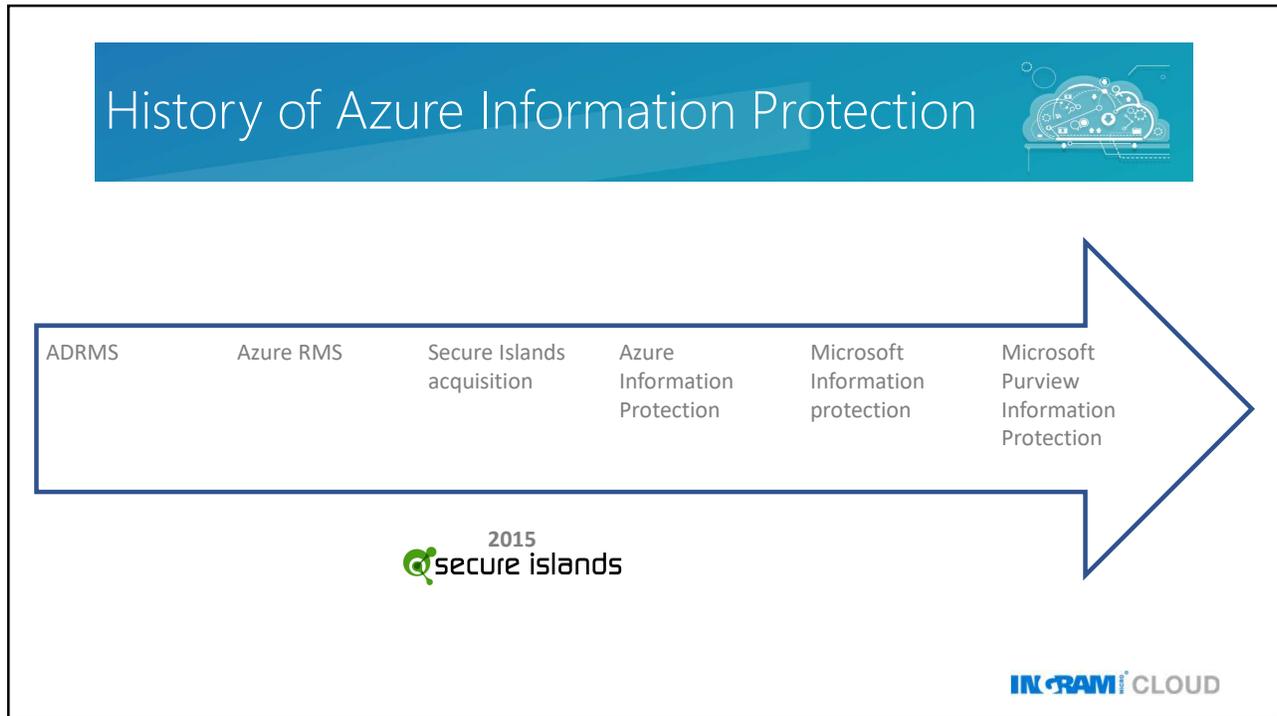
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MIP : Finding more information

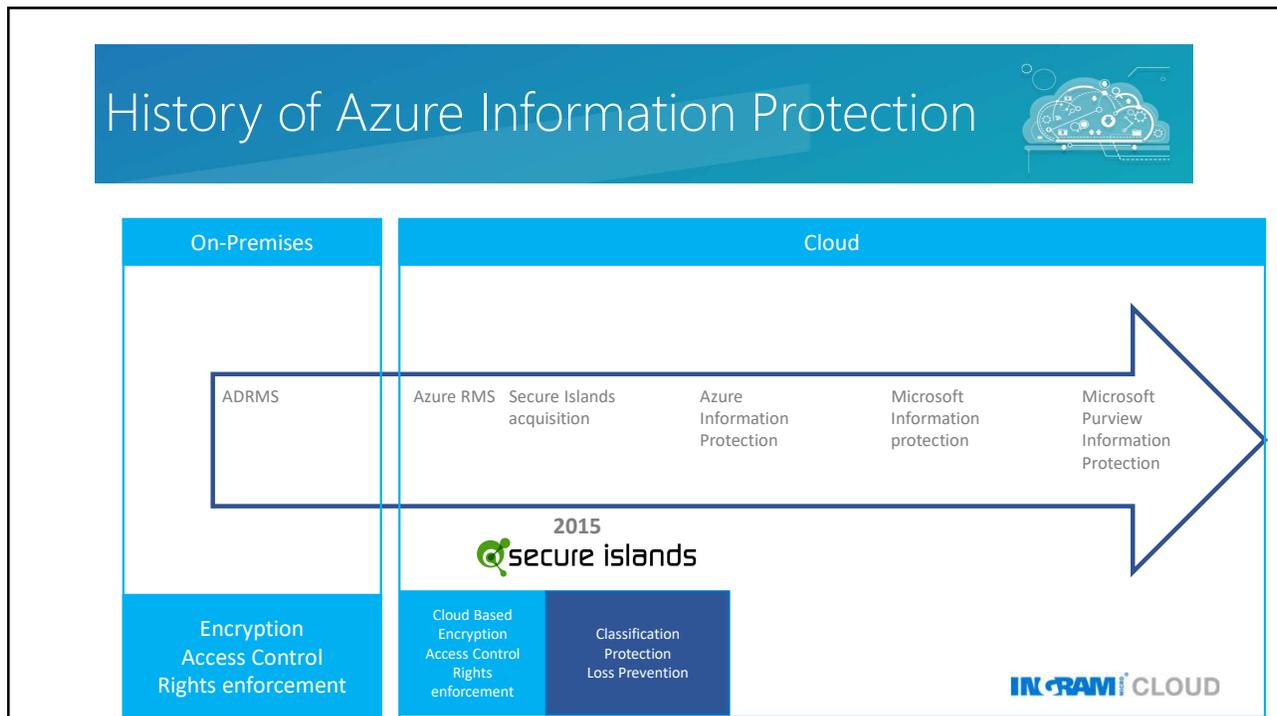
- https://www.yammer.com/askipteam/#/home?type=my_all
- <https://docs.microsoft.com/en-us/azure/information-protection/>

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RMS, IRM or AIP ?



On-Premises products

AD RMS (Active Directory Rights Management)

- Also referred as HYOK (Hold Your Own Key)
- Windows RMS (Windows Rights Management Services)



Cloud Based

Azure **RMS** (Azure Rights Management Services)

Microsoft RMS (Both AD RMS + Azure RMS)

IRM (Information Rights Management)

- Office implementation with AD RMS of Azure RMS (Older version of RMS)

AIP (Azure Information Protection)

- The new umbrella for the Cloud Based solutions above
- **Azure RMS** is still used as the protection technology for AIP

<https://docs.microsoft.com/en-us/azure/information-protection/aka>

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Know your Data



- Sensitive information types
 - Identify sensitive data
- Trainable classifiers
 - Classify your data with built-in classifiers & own classifiers
- Microsoft Purview Information Protection scanner

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Protect your data



- Sensitivity labels
- Azure Information Protection Unified labeling
- Double Key Encryption
- AIP Unified labeling Scanner
- Microsoft Cloud App Security
- Microsoft Information Protection SDK

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Prevent Data Loss



- Data loss prevention (DLP)



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Govern your data



- Retain, delete and store data
- Microsoft Information Governance
- Retention Policies
- Retention Labels

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Journey to the Cloud

LAB 1 Task2

TASK1 : CREATE WINDOWS 10 TEST DEVICE



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```

VM Name: AZU-APP-SRV   Public IP Address: 52.157.213.114
VM Name: AZU-ASS-APL   Public IP Address: 52.166.164.50
VM Name: adVM          Public IP Address: 20.160.106.15
VM Name: AZU-MIG-APL   Public IP Address: 20.16.230.28
VM Name: PUR1          Public IP Address: 172.166.132.226
VM Name: PUR10         Public IP Address: 172.167.29.31
VM Name: PUR11         Public IP Address: 51.140.179.251
VM Name: PUR12         Public IP Address: 20.0.248.152
VM Name: PUR2          Public IP Address: 172.167.25.149
VM Name: PUR3          Public IP Address: 172.167.217.21
VM Name: PUR4          Public IP Address: 172.166.143.146
VM Name: PUR5          Public IP Address: 20.162.223.101
VM Name: PUR6          Public IP Address: 51.145.33.221
VM Name: PUR7          Public IP Address: 172.166.181.221
VM Name: PUR8          Public IP Address: 20.58.44.7
VM Name: PUR9          Public IP Address: 20.162.248.218

```

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<https://bit.ly/purview2412>

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Journey to the Cloud

Know Your Data



Discover



Classify



Protect



Monitor

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Know your data – Top of mind questions

?

Where is my sensitive data located?

?

What are the risky activities happening in my organization – files shared externally, across 1st and 3rd party apps?

?

I need to comply with a new regulation? Where is my PII data located & where is it being generated?

?

How do I control data sprawl and build a strategy for dark data disposal before I bring data to the cloud from on-premise?

?

How do I see activity around classification and labeling across retention and sensitivity labels once they have been used across governance and retention outcomes?

?

How do I automate and scale classification across different types of data in my organization?

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Tools to know your data

Data discovery

Trainable classifiers

Content explorer

Activity explorer

Auto-labeling

End-user experience

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Discover your Data





Discover

Scan & detect sensitive data based on policy



Classify

Classify data and apply labels based on sensitivity



Protect

Apply protection actions, including encryption, access restrictions



Monitor

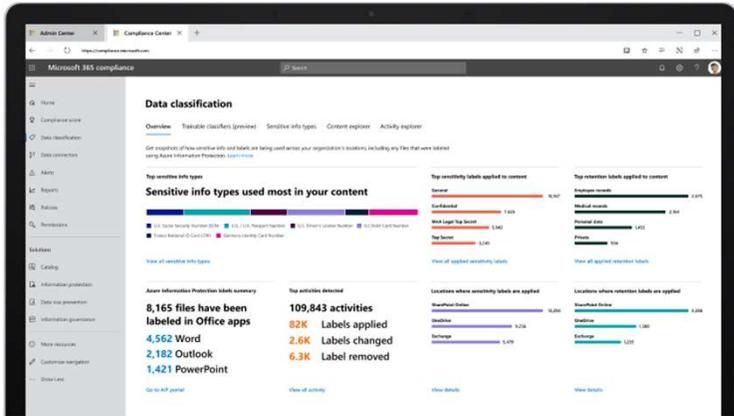
Reporting, alerts, remediation

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Discovering Data

- What Sensitive Information does exist in the Organization ?



Sensitive info types used most in your content

8,165 files have been labeled in Office apps

4,562 Word

2,182 Outlook

1,421 PowerPoint

Top activities detected

109,843 activities

82K Labels applied

2.6K Labels changed

6.3K Label removed

Top sensitivity labels applied to content

Confidential: 5,425

High Legal Top Secret: 1,342

Top Secret: 1,146

Top retention labels applied to content

Retention months: 2,475

Retention years: 2,184

Retention days: 1,412

Retention: 104

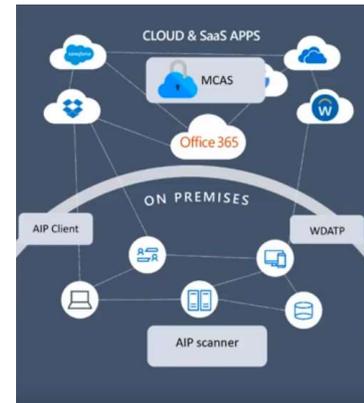
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Discover Sensitive Data



- Microsoft Purview Information Protection Scanner
- AIP unified labeling client
- Microsoft Defender for Endpoints
- Microsoft Cloud App Security



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What does Microsoft Purview Information Protection scanner do ?



-  Scans on-prem repositories: file shares, NAS or any other CIFS based repositories, or SharePoint 2013/2016
 Remark : NFS Shares in Private Preview on 21/09/2020
-  Discover data in the scanned repositories and match it against AIP policy (sensitive info types, location or custom property)
-  Labels and protects the discovered data per AIP policy. AIP scanner uses the same AIP policy as AIP clients.
-  Create a report of discovered data, including the matched conditions for found patterns

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Why Microsoft Purview Information Protection scanner ?



- Our business policy, compliance or regulation (GDPR) requires all files to be classified.
We label new created data using AIP client, but
 - What about the data that was created before we started to use AIP?
 - We had another solution and we want AIP to leverage the existing 3rd label
 - Some files are generated by automatic processes rather than created by end users
- We want to migrate to the cloud, but
 - We want to know what is going to be migrated
 - We want to label and encrypt data before it's moved to the cloud
 - We want to decide what data is move to the cloud and what stays on perm

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Microsoft Purview Information Protection scanner in portal



Settings > Information protection scanner

Information protection scanner

Use the scanner to discover, classify, and protect files stored in network shares and on-premises SharePoint document libraries and folders. [Learn more about the scanner](#)

For support related to the information protection scanner, visit [Help + support](#) within the Azure portal.

Clusters Nodes Content scan jobs

+ Add Refresh

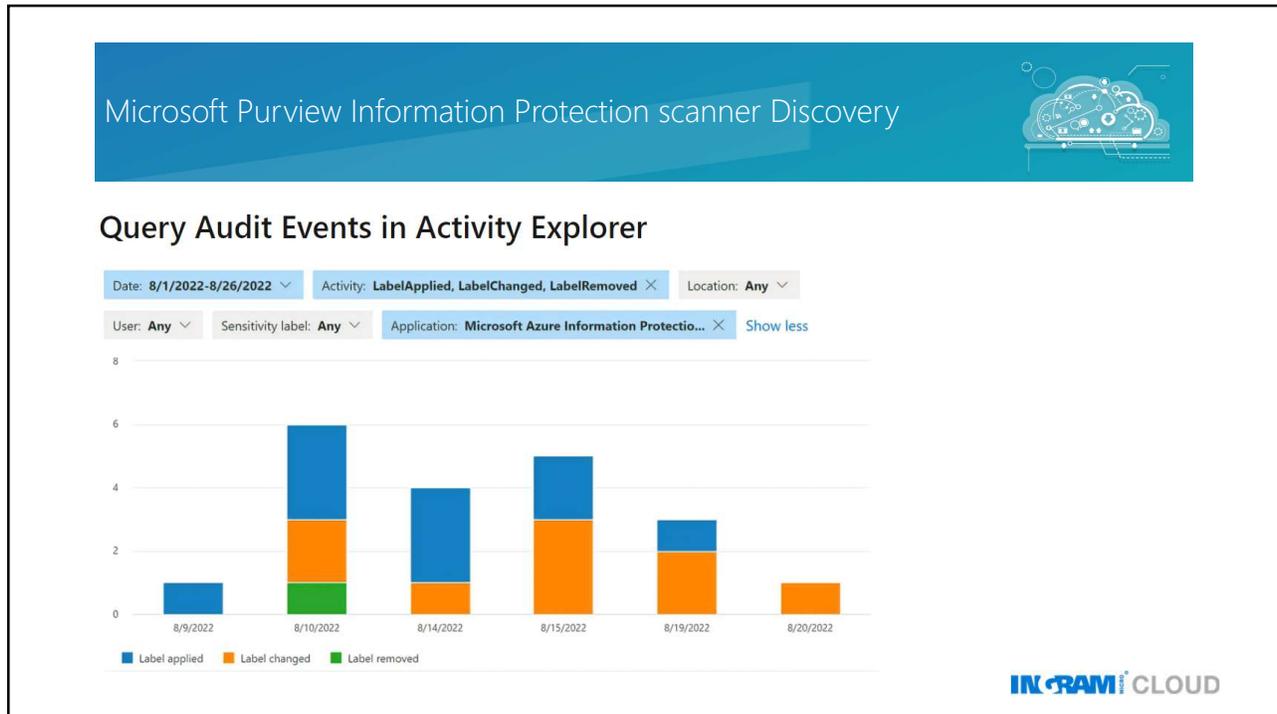
0 items

Search

Name	Description	Content scan job	Nodes

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Endpoint Data Discovery

AIP client	<ul style="list-style-type: none"> Any set / remove / relabel event Sensitive info types and custom regexes on file Save (preview) 	<ul style="list-style-type: none"> Win 7/8/10 + Office 2010/13/16 Requires AIP client Runs inside the app and inspect only files opened by app that uses AIP client
WDATP and AIP integration	<ul style="list-style-type: none"> Labeled files created (for ex. downloaded) or modified on the endpoint Sensitive info types and custom info-types matched in content (coming soon) 	<ul style="list-style-type: none"> Latest Win 10 (RS-5 at least) No additional SW required Runs on the OS level and inspect all newly created or modified files

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Microsoft Cloud App Security Integration



The screenshot shows the 'Settings' page for Cloud App Security. On the left is a navigation menu with options like System, Organization details, Mail settings, Export settings, Auto sign out, Cloud Discovery, Score metrics, Snapshot reports, Continuous reports, Automatic log upload, App tags, Exclude entities, and User enrichment. The main content area is titled 'Azure Information Protection' and includes 'Azure Information Protection settings' with two checked options: 'Automatically scan new files for Azure Information Protection classification labels and content inspection warnings' and 'Only scan files for Azure Information Protection classification labels and content inspection warnings from this tenant'. There is a 'Save' button and a link to the 'Azure Information Protection integration guide'. Below that is the 'Inspect protected files' section with a 'Grant permission' button. The Ingram Cloud logo is in the bottom right corner.

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How to Start ?



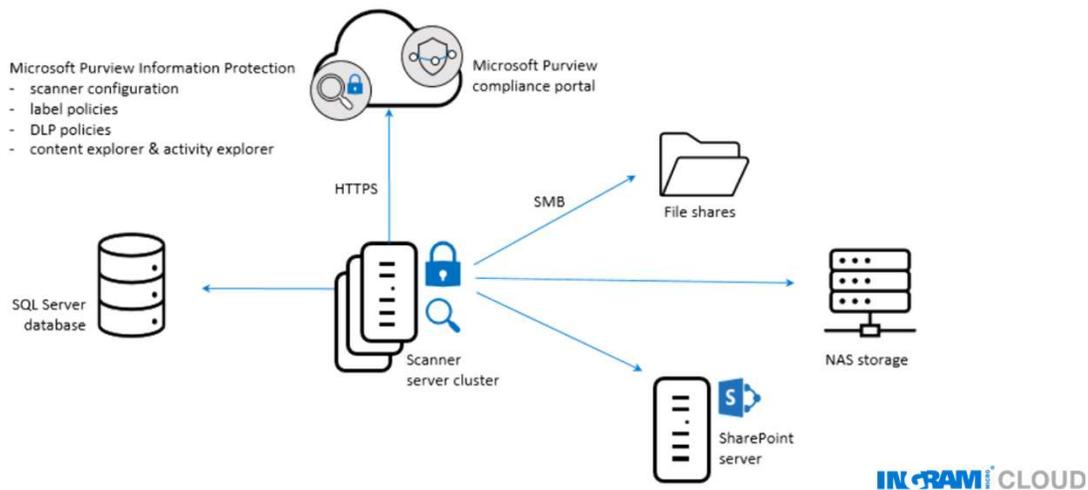
- Start by discovery of your data, if you do not know what to search for just discovery all built-in infotypes
- Analyze the results and proceed to policy enforcement once you are confident
- Use discovery reports to find data at risk, abnormal behavior
- Use AIP client reports to find sensitive not scanner repos



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Microsoft Purview Information Protection Scanner Overview



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Microsoft Purview Information Protection scanner Requirements (1/5)

- Windows Server 2012R2 / 2016 / 2019 (64 bit)
- 4 core processors / 8 GB RAM /
- Internet Access (port 443)
- Unified Azure Information Protection client
- SQL database (SQL Express also possible)
- File Server(s) or SharePoint Server(s) or NFS shares
- A Service Account for the AIP Scanner Service

<https://learn.microsoft.com/en-us/azure/information-protection/deploy-aip-scanner-prereqs>

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Create a Microsoft Purview Information Protection scanner Cluster (2/5)

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Install the AIP Scanner Software (3/5)

- Download the AIP Client
- <https://portal.azure.com/#/Download>
- Launch the Install-AIPScanner command

```
PowerShell
Install-AIPScanner -SqlServerInstance <name> -Cluster <cluster name>
```

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Get an Azure AD Token for the Scanner (4/5)



- Set-AIPAuthentication
 - webAppId <ID of the "Web app / API" application>
 - webAppKey <key value generated in the "Web app / API" application>
 - nativeAppId <ID of the "Native" application>

Contoso - App registrations

Search (Ctrl+/)

+ New registration | Endpoints | Troubleshooting | Got feedback?

Welcome to the new and improved App registrations (now Generally Available). See what's new →

Looking to learn how it's changed from App registrations (Legacy)? [Learn more](#)
Still want to use App registrations (Legacy)? [Go back and tell us why](#)

All applications | Owned applications

Start typing a name or Application ID to filter these results

DISPLAY NAME	APPLI
AIPClient	a295
AIPOnBehalfOf	2e7f

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Scan your Files (5/5)



- <https://portal.azure.com>

Home > Azure Information Protection - Nodes

Azure Information Protection - Nodes

Search (Ctrl+/)

Columns | Refresh | Delete | Scan now | Rescan all files | Show archived

Search by computer name, status or version, for example type Idle to get all scanners with status Idle

COMPUTER NAME	DESCRIPTION	PROFILE NAME
<input checked="" type="checkbox"/> AIPPS.M365x894749.onmicrosoft.com		Europe

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Information Protection Packaging

Information Protection Feature	M365 Business Premium	M365 Enterprise E3	M365 Enterprise E5	Other
Windows Information Protection	Yes	Yes	Yes	
RMS, DLP	Yes	Yes	Yes	
Azure Information Protection P1	Yes	Yes	Yes	
Azure Information Protection P2			Yes	
Microsoft Intune	Yes	Yes	Yes	
Microsoft Cloud App Security			Yes	
AIP for Office 365	Option	Yes	Yes	
Automatic Labeling			Yes	

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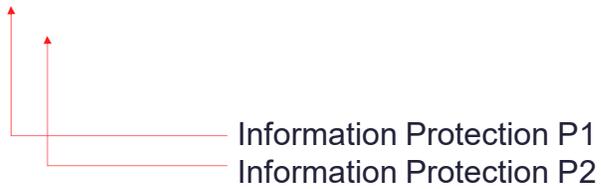
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Information Protection Plans

	Information Worker Plans										Frontline Worker Plans							
	Microsoft 365				Office 365			Enterprise Mobility Security			Windows 10		Microsoft 365					Office 365
	E3	E5	E5 Security Add-on	E5 Compliance Add-on	E1	E3	E5	E3	E5	Pro (for reference)	Enterprise E3	Enterprise E5	F1	F3	F5 Security Add-on	F5 Compliance Add-on	F5 Sec+Comp Add-on	F3
USD ERP per user per month	\$32	\$57	\$12	\$12	\$8	\$20	\$35	\$8.00	\$14.00		\$5	\$10	\$2.25	\$8	\$8	\$8	\$13	\$4

Information protection	Plan 1		Plan 2	AIP for O365		AIP for O365		Plan 1		Plan 2	Plan 1		Plan 1	Plan 2		Plan 2
	Plan 1	Plan 2	Plan 2	AIP for O365	AIP for O365	Plan 1	Plan 2	Plan 1	Plan 2	Plan 2	Plan 1	Plan 1	Plan 2	Plan 2	Plan 2	Plan 2
Azure Information Protection	•	•														
Manual sensitivity labels	•	•		•	•	•	•						•		•	•
Automatic sensitivity labels			•												•	•
Machine Learning-based sensitivity labels															•	•
Office 365 Data Loss Prevention (DLP) for emails and files	•	•				•	•								•	•
Communication DLP (Teams chat)															•	•
Endpoint DLP															•	•
Basic Office Message Encryption	•	•				•	•	•	•				•	•		
Advanced Office Message Encryption															•	•
Customer Key for Office 365															•	•



INTEGRATED CLOUD

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New Microsoft Purview Information Protection labeling client

MS

Martin Sieber – March 21 at 09:04 PM

📄 New Microsoft Purview Information Protection labeling client / Updated support lifecycle for AIP 2.x clients

The Azure Information Protection unified labeling client is joining the Purview family!

The Microsoft Purview Information Protection labeling client replaces the AIP UL client and includes the PowerShell, Scanner, File Labeler (previously AIP Classify & Protect) and Viewer. Client versions for the rebranded client begin with 3.X and do not include the AIP Add-in for Office.

Preview the Microsoft Purview Information Protection labeling client on April 11, 2024 from the Microsoft Download Center. The new client is Generally Available starting May 11, 2024 and is supported through May 11, 2025.

For AIP 2.x clients, we updated the support lifecycle on <https://learn.microsoft.com/en-us/azure/information-protection/>. The AIP Add-in for Office will continue to be supported until April 11, 2024, but support for the other AIP components of the latest AIP versions has been extended to allow time to switch to the new client:

Version 2.17.67.0 AIP Add-in for Office is supported until 04/11/2024.

AIP PowerShell, Scanner, Classify & Protect and Viewer are supported until 06/30/2024.

Version 2.17.66.0

AIP Add-in for Office is supported until 04/11/2024.

AIP PowerShell, Scanner, Classify & Protect and Viewer are supported until 06/30/2024.

Version 2.16.73.0

AIP Add-in for Office is supported until 04/11/2024.

AIP PowerShell, Scanner, Classify & Protect and Viewer are supported until 04/25/2024.

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Journey to the Cloud



LAB 1

TASK 2 : PREPARE WINDOWS 10 DEVICE

TASK 3 : CONNECT AS A USER

TASK 4 : VERIFY LICENSES



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Journey to the Cloud

Protect Your Data



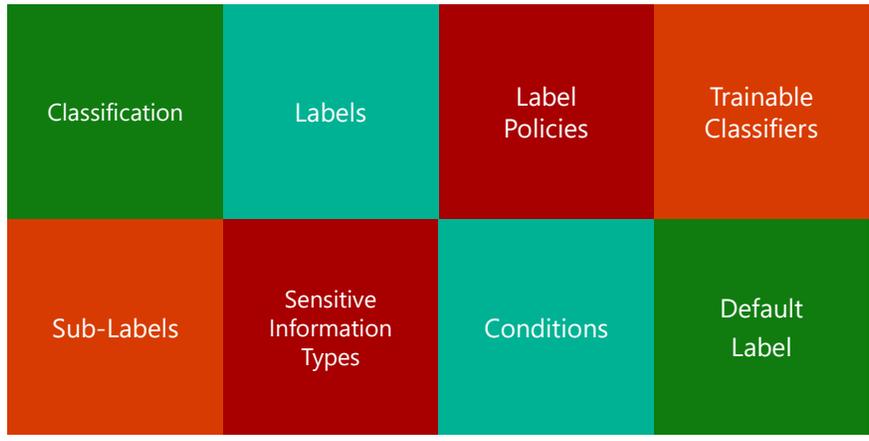
The diagram illustrates a four-step cycle for data protection:

- KNOW YOUR DATA**: Understand your data landscape and identify important data across your hybrid environment.
- PREVENT DATA LOSS**: Detect risky behavior and prevent accidental oversharing of sensitive information.
- GOVERN YOUR DATA**: Automatically retain, delete, and store data and records in a compliant manner.
- PROTECT YOUR DATA**: Apply flexible protection actions including encryption, access restrictions and visual markings.

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Information Protection Vocabulary



Classification	Labels	Label Policies	Trainable Classifiers
Sub-Labels	Sensitive Information Types	Conditions	Default Label

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Classification



- Microsoft Purview provides three ways to classify your data :
 1. Manually by users
 2. Automated with Sensitive Information Types (SIT)
 3. Automated with Machine Learning

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1. Manual Classification



- Requires human judgment and action
- Users/Admins categorize content as they encounter it



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2. Sensitive Information Types



- A Sensitive information Type (SIT) is the ability to determine the confidentiality of specific sets of sensitive information
- A Sensitive information Type is a regular expression or **pattern-based expression** that can help identify the data

`([0-9]+?)-\d{3}-^[A-Z]+`



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Different Sensitive Info Types



- Two Types
 - Preset Information Types
 - Social Security Number
 - Bank Card Numbers
 - Belgium eID
 - ...
 - Custom Info Types
 - Own Regular Expression definition
 - Keywords
 - Dictionaries

Microsoft 365

Confidence levels



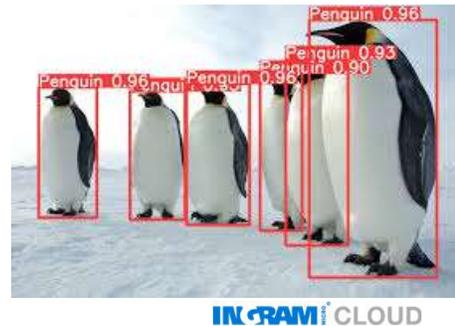
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3. Trainable Classifiers



- Data that isn't easily identified
 - by Manual Categorizing
 - by Automated Pattern-matching (Sensitive Information Types)
- Search content by giving similar samples
 - Give multiple similar samples
 - Narrow your search by giving more samples
 - Train the system to detect that kind of data

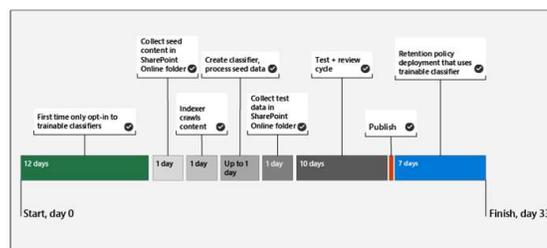


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Different Trainable Classifiers



- Two Types
 - Pre-trained classifiers
 - Discrimination
 - Financial Audit Reports
 - Harrassment
 - Healthcare
 - ...
 - Custom trainable classifiers
 - Create your own Classifiers
 - Feed examples that are definitely in the category
 - Sort out :
 - True Positives
 - True Negatives
 - False Positives
 - False Negatives



True Positive	False Positive
False Negative	True Negative

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What are Sensitivity Labels ?



- Metadata Written into document Files
- Travels with the document as it moves
- In clear text so that other systems such as a DLP engine can read it
- Used for the purpose of applying a protection action or data governance action – determined by a policy
- Can be customized per the organization's needs



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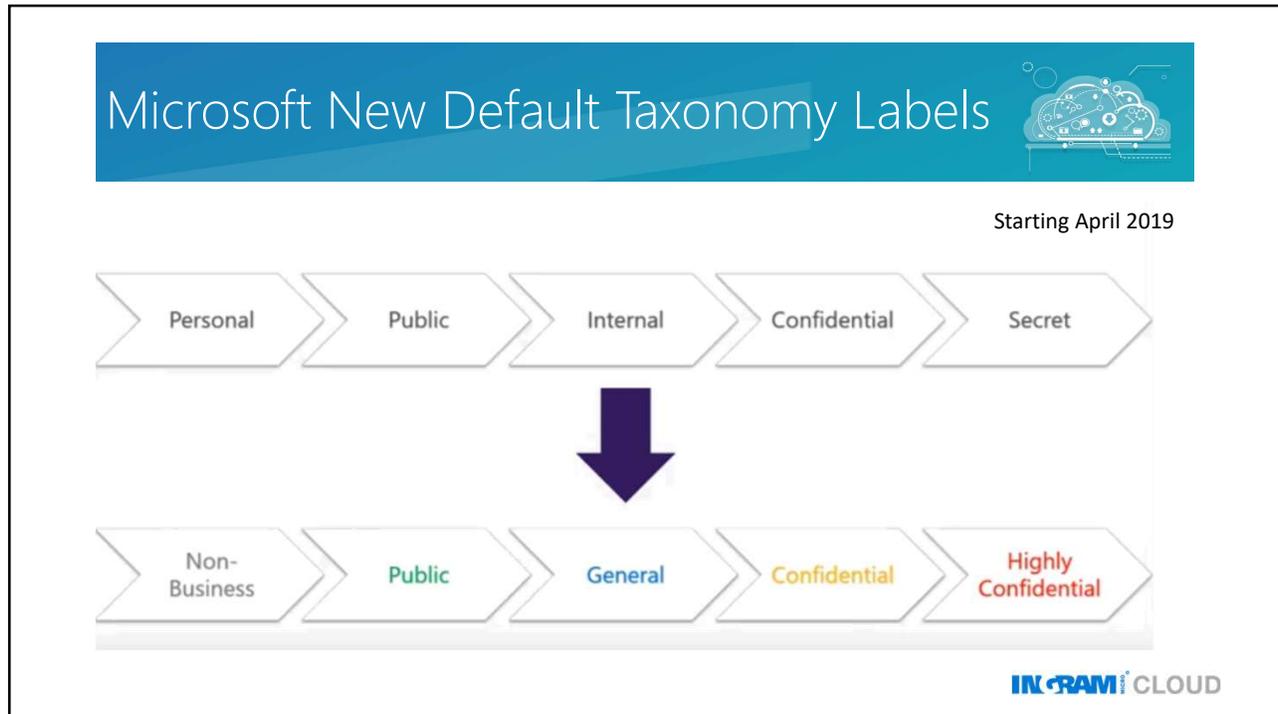
Default Sensitivity Labels



- **Non-Business** data which does not belong to Contoso. Data is not encrypted and cannot be tracked or revoked. Do not use Non-Business to classify any personal data which is collected by or which belongs to Contoso. Such content should be classified as either Confidential or Highly Confidential.
- **Public** To be used for business data specifically prepared and approved for public consumption. Data is not Encrypted and owners cannot track or revoke content using AIP.
- **General** To be used for business data which is NOT meant for public consumption. However, this can be shared with internal employees, business guests and external partners as needed. Data is not Encrypted and owners cannot track or revoke content using AIP. This is default label.
- **Confidential** To be used on sensitive business data which could cause business harm if over-shared. Recipients (see table above) are trusted and get full delegation rights (including the ability to remove the Encryption). Data is protected using AIP and owners can track and revoke content.
- **Highly Confidential** To be used on very sensitive business data which would certainly cause business harm if over-shared. Recipients do NOT get delegation rights (or rights to modify or remove the Encryption). Data is protected using AIP and owners can track and revoke content.

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Configuring Sensitivity Labels

- Name
- Scope (Files, Emails, Teams, Sharepoint, PC)
- Protection (Encryption, Visual Marking)
- Permissions (Read, Write, Delete, Print)
- Auto-labeling settings
- Visual Marking (watermark / header / footer)
- Conditions
 - Sensitive info types
 - Trainable classifiers

Edit sensitivity label

- Name & description
- Scope**
 - Files & emails
 - Groups & sites
 - Finish

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Label Settings

Common	Visual Marking	Protection	Conditions
Name	Visual existence of Label	Encryption	Automatic Labeling

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Visual Markings

- Watermark – Header – Footer Added

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Benefits of labeling



- A label travels with the data
- Labels can be applied automatically based on Sensitive Info Types



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Other Possible Sensitivity Labels



- | | | |
|--|--|---|
| <ul style="list-style-type: none"> • L1 PUBLIC • L2 RESTRICTED • L3 CONFIDENTIAL • L4 SECRET | <ul style="list-style-type: none"> • PUBLIC • INTERNAL • CONFIDENTIAL • SECRET | <ul style="list-style-type: none"> • PUBLIC • INTERNAL • CONFIDENTIAL • STRICTLY CONFIDENTIAL |
| <ul style="list-style-type: none"> • PUBLIC • INTERNAL • CONFIDENTIAL | <ul style="list-style-type: none"> • INTERNAL • CONFIDENTIAL • SECRET | <ul style="list-style-type: none"> • OFFICIAL • SECRET • TOP SECRET |

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Sub-Labels



- Within a label you can create sublabels
- Users can select just one label at a time for each document
- Sub-Labels can only go One-Level deep !
- Labels and Sub-Labels have a priority order

LABEL DISPLAY NAME

Personal

General

Internal

Confidential - All Employees

DiegoOnly

Contoso Internal

Highly Confidential

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Dynamic Marking



Variable	Description	Example when label applied
<code>\${Item.Label}</code>	Current label display name	General
<code>\${Item.Name}</code>	Current file name or email subject	Sales.docx
<code>\${Item.Location}</code>	Current path and file name of the document, or the email subject for an email	\\Sales\2020\Q3\Report.docx
<code>\${User.Name}</code>	Current user display name	Richard Simone
<code>\${User.PrincipalName}</code>	Current user Azure AD user principal name (UPN)	rsimone@contoso.com
<code>\${Event.DateTime}</code>	Current date and time for the local time zone	8/10/2020 1:30 PM

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Journey to the Cloud

LAB 2

SENSITIVITY LABELS AND POLICIES



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Journey to the Cloud

Module 3 : Unified Labeling

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Labeling Client for Office Apps

- You can label your office documents using:
 - AIP Unified Labeling Add-in for Office Applications
 - Does exist already multiple years
 - Deprecated in 2024
 - Built-in client disabled when AIP Client is installed (Registry Key)
 - Built-In labeling
 - More stability
 - Better performance
 - Latest Purview Features
 - Labeling technology extends across platforms (Windows, macos, IOS, Android, Web)

<https://docs.microsoft.com/en-us/microsoft-365/compliance/sensitivity-labels-aip?view=o365-worldwide>

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Built-In Labeling Client

- You need to deploy Office 365 as a Subscription Edition
 - For example Microsoft 365 Apps for Enterprise or Microsoft 365 Apps for Business
- Built-In labeling is not available with Standalone editions (Office Perpetual)
- Look and feel of labeling is different
- Only for labeling Office Documents & Emails
 - Word, Excel, Powerpoint, Outlook
- Supported on Windows, macOS, iOS, Android and Office Web Applications

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AIP Unified Labeling Client

- Contains the following capabilities & components :
 - AIP Unified labeling Add-In for Office apps in Windows (retirement April 11, 2024)
 - AIP Viewers on Windows / iOS / Android
 - AIP PowerShell extension
 - Right-click Classify & Protect (File Explorer support)
 - AIP Scanner
 - Can Label / Encrypt other document types as well
 - Download link :
 - <https://www.microsoft.com/en-us/download/details.aspx?id=53018>

Verify that the Outlook client is using built-in labeling. To do this, check the following registry subkey on the client computer:

```
HKEY_CURRENT_USER\Software\Microsoft\Office\16.0\Common\Security\Labels
```

If the registry subkey is present, and the `UseOfficeForLabeling` value is set to 0, this indicates that Outlook is using the AIP client instead of the built-in support for sensitivity labels. In this case, set the `UseOfficeForLabeling` value to 1 so that Outlook uses the built-in support for sensitivity labels.

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Office 365 File Type Supported Classification & Protection

.doc	.potx	.vsdm	.xlsb
.docm	.pps	.vsdx	.xlt
.docx	.ppsm	.vssm	.xlsm
.dot	.ppsx	.vssx	.xlsx
.dotm	.ppt	.vstx	.xltm
.dotx	.pptm	.vstx	.xltx
.potm	.pptx	.xls	.xps

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Other File Type Supported Classification & Protection

Original file name extension	Protected file name extension
.bmp	.pbmp
.gif	.pgif
.jif	.pjif
.jpe	.pjpe
.jpeg	.pjpeg
.jpg	.pjjpg
.jt	.pjt
.png	.ppng
.tif	.ptif
.tiff	.ptiff
.txt	.ptxt
.xla	.pxla
.xlam	.pxlam
.xml	.pxml

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File Type Classification

- Adobe Portable Document Format: .pdf
- Microsoft Project: .mpp, .mpt
- Microsoft Publisher: .pub
- Microsoft XPS: .xps .oxps
- Images: .jpg, .jpe, .jpeg, .jif, .jfif, .jfi, .png, .tif, .tiff
- Autodesk Design Review 2013: .dwfx
- Adobe Photoshop: .psd
- Digital Negative: .dng
- Microsoft Office: The following file types, including 97-2003 file formats and Office Open XML formats for Word, Excel, and PowerPoint:

.doc	.potx	.vsd	.vstx
.docm	.pps	.vsdm	.xls
.docx	.ppsm	.vsdx	.xlsb
.dot	.ppsx	.vss	.xlt
.dotm	.ppt	.vssm	.xlsm
.dotx	.pptm	.vst	.xlsx
.potm	.pptx	.vstm	.xltm
	.vdw	.vssx	.xltx

<https://learn.microsoft.com/en-us/azure/information-protection/rms-client/client2-admin-guide-file-types>

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Sensitive Info Types



- Two Types
 - Preset Information Types
 - Social Security Number
 - Bank Card Numbers
 - Belgium eID
 - ...
 - Custom Info Types
 - Own Regular Expression definition
 - Keywords
 - Dictionaries

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Custom Info Types



Choose the type of condition ⓘ

Information Types **Custom**

* Name

ABC Corp Customer Number ✓

* Match exact phrase or pattern ⓘ

`^[A-Z]{2}-[0-9]{5}$` ✓

Same regular expression
as the custom sensitive
information type

Match as a regular expression

Off **On** ★

Match with case sensitivity

Off **On**

* Minimum number of occurrences

1

Count occurrences with unique values only

Off On

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Regular Expressions



- [a-z] Any lowercase Letter
- [a-z0-9] Any Number or lowercase Letter
- \. Escape character for special characters . () [] ^ \$
- \.? A point can follow but do not need to follow
- a{1,9} Preceding character minimum 1x, maximum 9x
- . Any character
- \d decimal character 0-9
- (?ab|cd|ef) ab or cd or ef
- \s whitespace

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Test your Regular Expressions



- <https://regex101.com>

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Examples Pre-trained classifiers



- Resumes (overview of accounts, profession, qualification, experience)
- Source Code (C#, C++, Java, Perl, Python, ...)
- Harassment (offensive language, religion, gender, sexual orientation)
- Profanity (offensive language, embarrassing people)
- Threat (offensive language, physical harm, damage)

<https://docs.microsoft.com/en-us/microsoft-365/compliance/classifier-learn-about?view=o365-worldwide>

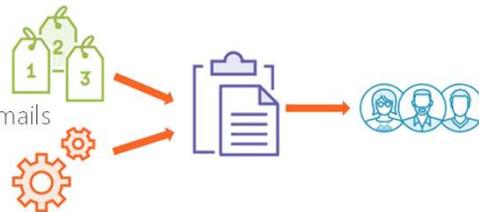
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Label Policies (Publishing Labels)



- A Group of Labels and Label Settings pushed to a group of Users or all Users is called a Policy
- A Policy contains :
 - Labels
 - Apply Classification Value to documents and Emails
 - Labels are part of a specific Policy
 - Settings
 - Change the Default behavior of the AIP Client
- A Policy is assigned to Users, Groups of Users, All Users



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Policy Components



The diagram illustrates four policy components: Common Name (tag icon), Groups and Users (person icon), Labels (tagged items icon), and Global Overrides (globe icon). The INCRAM iCLOUD logo is at the bottom right.

Common Name

Groups and Users

Labels

Global Overrides

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The illustration shows a cloud with various icons (gear, house, server, etc.) and a person climbing a ladder. Below, a crane is lifting a cloud-shaped object. The text 'Journey to the Cloud' is written below the cloud.

Journey to the Cloud

LAB 3

UNIFIED LABELING AGENT
CUSTOM INFO TYPES

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Journey to the Cloud

Prevent Data Loss



The diagram illustrates a four-step cycle for preventing data loss:

- KNOW YOUR DATA:** Understand your data landscape and identify important data across your hybrid environment.
- PREVENT DATA LOSS:** Detect risky behavior and prevent accidental oversharing of sensitive information.
- PROTECT YOUR DATA:** Apply flexible protection actions including encryption, access restrictions and visual markings.
- GOVERN YOUR DATA:** Automatically retain, delete, and store data and records in a compliant manner.

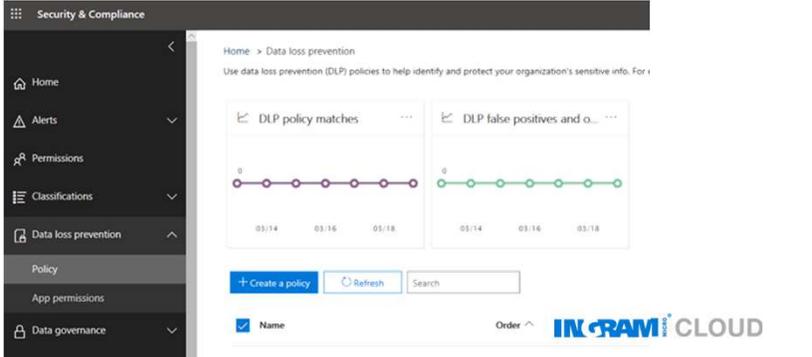
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Data Loss Prevention



- Identify sensitive information
- Prevent the accidental sharing
- Monitor and protect sensitive information



The screenshot shows the 'Data loss prevention' section of the Security & Compliance console. It includes a sidebar with navigation options like Home, Alerts, Permissions, Classifications, Data loss prevention, Policy, App permissions, and Data governance. The main content area displays 'DLP policy matches' and 'DLP false positives and o...' with corresponding charts and a '+ Create a policy' button.

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Reuse Sensitive Information Types



- Use the same sensitive information types as in AIP

^ Sensitive information types (81)	
<input type="checkbox"/> Name	Publisher
<input type="checkbox"/> ABA Routing Number	Microsoft Corporation
<input type="checkbox"/> Argentina National Identity (DNI) Number	Microsoft Corporation
<input type="checkbox"/> Australia Bank Account Number	Microsoft Corporation
<input type="checkbox"/> Australia Driver's License Number	Microsoft Corporation
<input type="checkbox"/> Australia Medical Account Number	Microsoft Corporation
<input type="checkbox"/> Australia Passport Number	Microsoft Corporation
<input type="checkbox"/> Australia Tax File Number	Microsoft Corporation
<input type="checkbox"/> Belgium National Number	Microsoft Corporation
<input type="checkbox"/> Brazil CPF Number	Microsoft Corporation
<input type="checkbox"/> Brazil Legal Entity Number (CNPJ)	Microsoft Corporation
<input type="checkbox"/> Brazil National ID Card (RG)	Microsoft Corporation

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DLP Configuration



- Rules
 - Protect your Data
- Conditions
 - When ?
- Actions
 - How ?
- Locations
 - Exchange Online
 - OneDrive
 - SharePoint
 - Teams
 - ...

Data loss prevention policy



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DLP Location Configuration

Choose locations

Status	Location	Include	Exclude
<input checked="" type="checkbox"/>	Exchange email	All Choose distribution groups	None Exclude distribution groups
<input checked="" type="checkbox"/>	SharePoint sites	All Choose sites	None Exclude sites
<input checked="" type="checkbox"/>	OneDrive accounts	All Choose accounts	None Exclude accounts
<input checked="" type="checkbox"/>	Teams chat and channel messages	All Choose accounts	None Exclude accounts



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New DLP Locations in 2020

<input checked="" type="checkbox"/> On	Exchange email	All	Choose distribution group
<input checked="" type="checkbox"/> On	SharePoint sites	All	Choose sites
<input checked="" type="checkbox"/> On	OneDrive accounts	All	Choose account
<input checked="" type="checkbox"/> On	Teams chat and channel messages	All	Choose account
<input checked="" type="checkbox"/> On	Devices	All	Choose user or group
<input type="checkbox"/> Off	Microsoft Cloud App Security		



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Data Loss Prevention for Endpoints



- Available in Plan 2 Bundles
- Protect Documents on the Device

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New DLP Locations in 2021



Status	Location	Included	Excluded
<input checked="" type="checkbox"/> On	Exchange email	All Choose distribution group	None Exclude distribution group
<input checked="" type="checkbox"/> On	SharePoint sites	All Choose sites	None Exclude sites
<input checked="" type="checkbox"/> On	OneDrive accounts	All Choose account or distribution group	None Exclude account or distribution group
<input checked="" type="checkbox"/> On	Teams chat and channel messages	All Choose account or distribution group	None Exclude account or distribution group
<input checked="" type="checkbox"/> On	Devices	All Choose user or group	None Exclude user or group
<input checked="" type="checkbox"/> On	Microsoft Cloud App Security	All Choose instance	None Exclude instance
<input checked="" type="checkbox"/> On	On-premises repositories	All Choose repositories	None Exclude repositories

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DLP Locations 2022

Status	Location	Included	Excluded
<input checked="" type="checkbox"/> On	Exchange email	All Choose distribution group	None Exclude distribution group
<input checked="" type="checkbox"/> On	SharePoint sites	All Choose sites	None Exclude sites
<input checked="" type="checkbox"/> On	OneDrive accounts	All Choose account or distribution group	None Exclude account or distribution group
<input checked="" type="checkbox"/> On	Teams chat and channel messages	All Choose account or distribution group	None Exclude account or distribution group
<input checked="" type="checkbox"/> On	Devices	All Choose user or group	None Exclude user or group
<input checked="" type="checkbox"/> On	Microsoft Defender for Cloud Apps	All Choose instance	None Exclude instance
<input checked="" type="checkbox"/> On	On-premises repositories	All Choose repositories	None Exclude repositories
<input type="checkbox"/> Off	Power BI (preview)		

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DLP Notifications & Alerts

- <https://compliance.microsoft.com>

DLP Policy Matches

Legend: Sharepoint, Exchange, OneDrive for Business, Teams

[View details](#)

DLP Incidents

Legend: Sharepoint, Exchange, OneDrive for Business, Teams

[View details](#)

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Journey to the Cloud

LAB 4

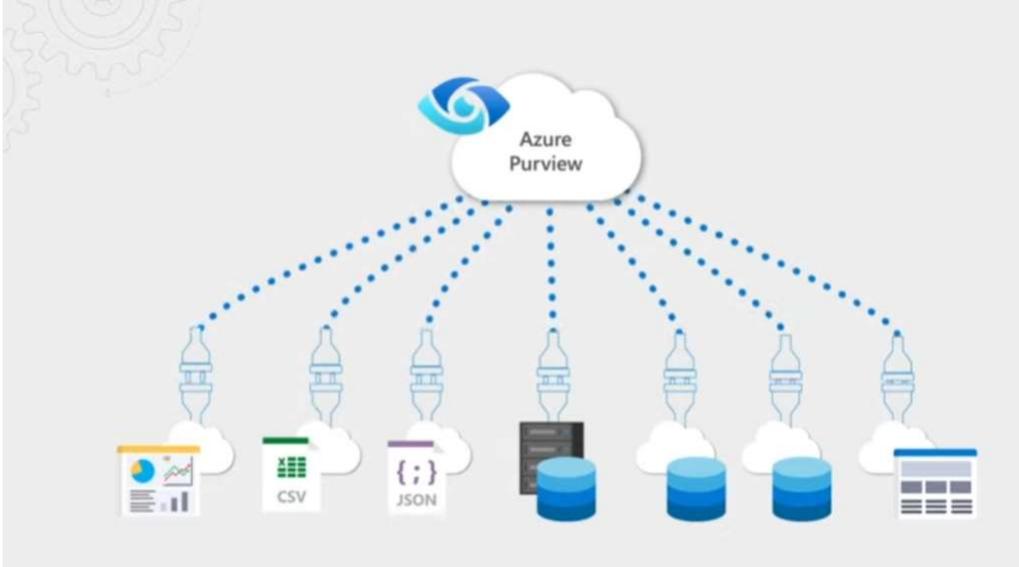
MODULE 4 : DATA LOSS PREVENTION (DLP)



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Connecting to different data sources



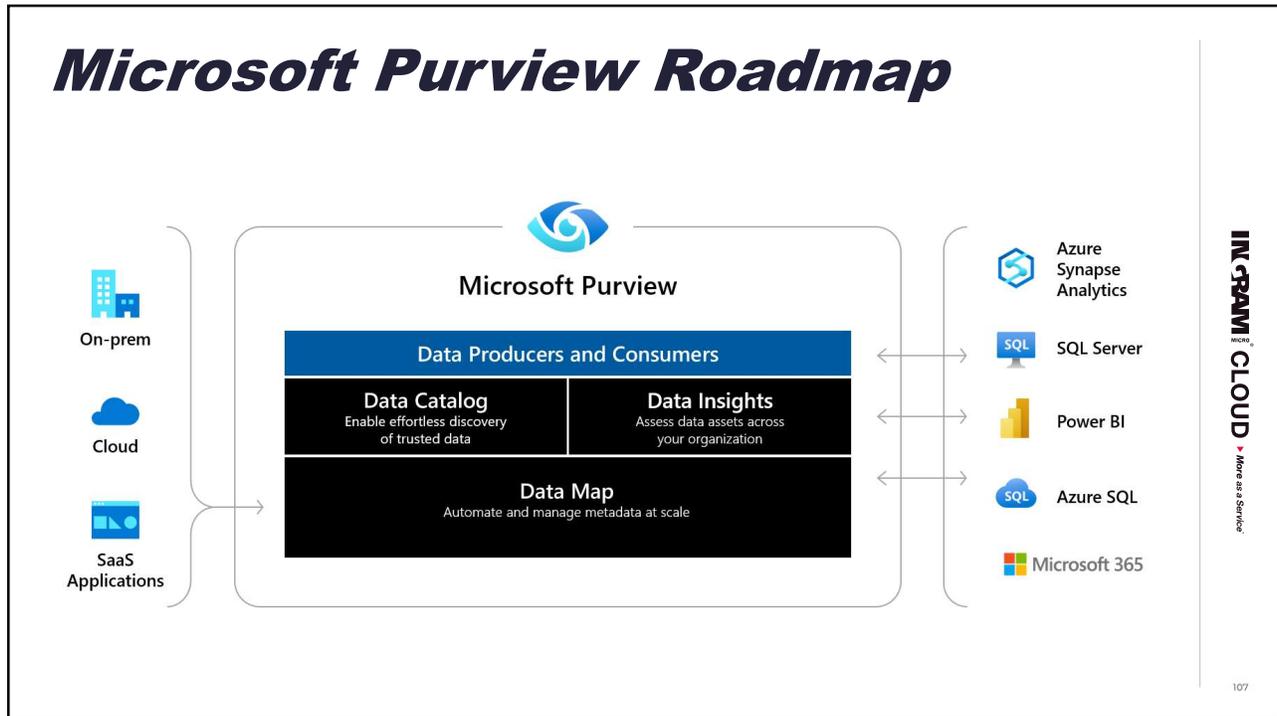
Azure Purview

IN GRAMI CLOUD Micro Move as a Service

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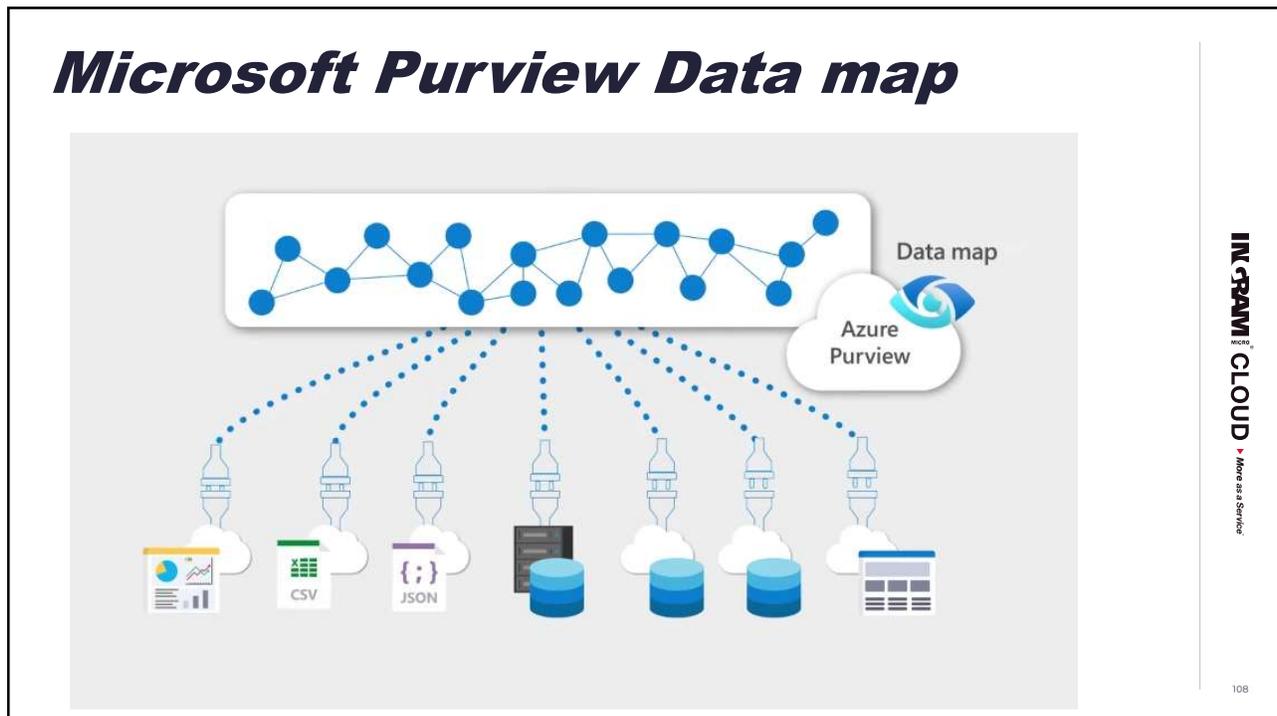
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Microsoft Purview Roadmap



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Microsoft Purview Data map



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Microsoft Purview Data Map

- Microsoft Purview Data Map is a metadata store
- Labels are applied to the asset metadata; not applied to the actual files
- Sensitivity labels don't modify your files and databases
- Labels are applied to the Asset Metadata



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Microsoft Purview Data Map **Preview**



Data type	Sources
Automatic labeling for files	<ul style="list-style-type: none"> - Azure Blob Storage - Azure Files - Azure Data Lake Storage Gen 1 and Gen 2 - Amazon S3
Automatic labeling for schematized data assets	<ul style="list-style-type: none"> - SQL server - Azure SQL database - Azure SQL Database Managed Instance - Azure Synapse Analytics workspaces - Azure Cosmos Database (SQL API) - Azure database for MySQL - Azure database for PostgreSQL - Azure Data Explorer

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Extend labeling to assets **Preview**

Information protection

Overview **Labels** Label policies Auto-labeling

Extend labeling to assets in Azure Purview

When you turn on labeling for Azure Purview, you'll be able to apply your Microsoft 365 sensitivity labels to files and schematized data assets in Azure Purview. Learn more about labeling for Azure Purview.

[Turn on](#)

Your organization has not turned on the ability to process content in Office online files that have encrypted sensitivity labels applied and are stored in OneDrive and SharePoint. You can turn on here, but note that additional configuration is required for Multi-Geo environments. [Learn more](#) [Turn on now](#)

You can now create sensitivity labels with privacy and access control settings for Teams, SharePoint sites, and Microsoft 365 Groups. To do this, you must first complete these steps to enable the feature.

Sensitivity labels are used to classify email messages, documents, sites, and more. When a label is applied automatically or by the user, the content or site is protected based on the settings you choose. For example, you can create labels that encrypt files, add content marking, and control user access to specific sites. [Learn more about sensitivity labels.](#)

+ Create a label [Publish label](#) [Refresh](#) 2 items

Name	Order	Scope	Created by	Last modified
Confidential - Finance	0 - lowest	File,Email	Megan Bowen	Feb 28, 2021 9:23...
Highly Confidential	1	File,Email	Megan Bowen	Feb 28, 2021 9:27 A...

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Limitations of MS Purview Data Maps

- Data Maps supports automatic labeling only
- Manual applying a label to a Data Map is not possible
- Scanning for credentials is not supported
- Data Maps does not support encryption (only Metadata)
- Microsoft Purview Data Map does not currently provide DLP capabilities
- Trainable Classifiers are not supported yet

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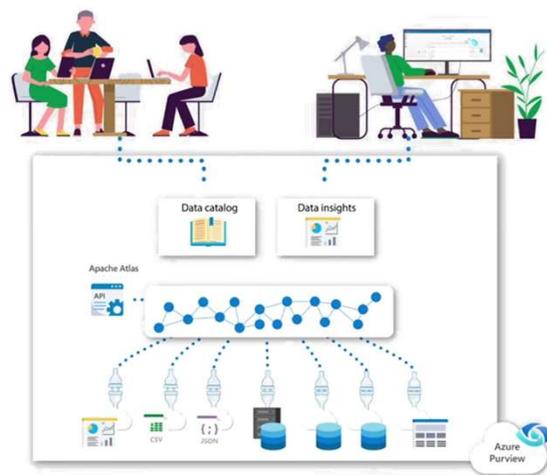
Licensing

- Microsoft Purview Data Map :
 - Microsoft 365 E5/A5
 - Office 365 E5

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Microsoft Purview Data Catalog

- Spend less time looking for data
- Have more time getting value of your data
- Create insights into data sets



- <https://aka.ms/AzurePurview>
- <https://azure.microsoft.com/en-us/services/data-catalog/>

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Journey to the Cloud

Govern your Data



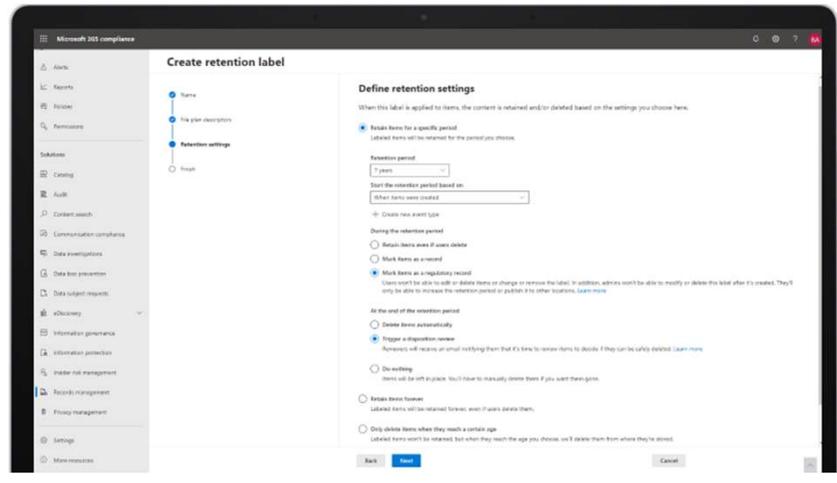
The diagram illustrates a four-step cycle for data governance:

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- GOVERN YOUR DATA**: Automatically retain, delete, and store data and records in a compliant manner.

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Microsoft Information Governance



The screenshot shows the 'Create retention label' interface in Microsoft 365 compliance. The 'Retention settings' section is active, showing options to:

- Retain items for a specific period (selected), with a dropdown for '1 year' and a field for 'When items were created'.
- During the retention period:
 - Retain items even if users delete (radio button)
 - Mark items as a record (radio button)
 - Mark items as a regulatory record (selected radio button). Note: Users won't be able to delete or change or remove the label. In addition, admins won't be able to modify or delete this label after it's created. They'll only be able to increase the retention period or push it to other locations. [Learn more](#)
- At the end of the retention period:
 - Delete items automatically (radio button)
 - Trigger a disposition review (selected radio button). Note: Admins will receive an email notifying them that it's time to review items to decide if they can be safely deleted. [Learn more](#)
 - Do nothing (radio button). Note: Items will be left in place. You'll have to manually delete them if you want them gone.
 - Retain items forever (radio button). Note: Labeled items will be retained forever, even if users delete them.
 - Only delete items when they reach a certain age (radio button). Note: Labeled items won't be retained, but when they reach the age you choose, we'll delete them from where they're stored.

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Records Management



- <https://compliance.microsoft.com/recordsmanagement>
- Intelligent Classification
- Regulations
- Corporate Policies

Information protection & governance

Classify, protect, and retain your data where it lives and wherever it goes.



Data loss prevention

By Microsoft
Detects sensitive content as it's used and shared throughout your organization, in the cloud and on devices, and helps prevent accidental data loss.

[View](#)



Information governance

By Microsoft
Manages your content lifecycle using solutions to import, store, and classify business-critical data so you can keep what you need and delete what you don't.

[View](#)



Information protection

By Microsoft
Discovers, classifies, and protects sensitive and business-critical content throughout its lifecycle across your organization.

[View](#)

Records management
By Microsoft
Uses intelligent classification to automate and simplify the retention schedule for regulatory, legal and business-critical records in your organization.



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Retention Labels



- Retention labels for different types of content
- Compare with Sensitivity Labels

<input type="checkbox"/> Name	Created by	Retention period
<input type="checkbox"/> PII Retention Policy	Megan Bowen	7 years
<input type="checkbox"/> Medical Records Retention Policy	Megan Bowen	7 years
<input type="checkbox"/> Product Retired	Megan Bowen	10 years
<input type="checkbox"/> Employee Records	Megan Bowen	Forever
<input type="checkbox"/> Personal Financial PII	Megan Bowen	3 years
<input type="checkbox"/> Private	Megan Bowen	5 years



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Retention Policies



- Data is increasing daily
 - Comply with industry regulations
 - Comply with internal policies
 - Reduce risk of security breach
 - Share knowledge effectively
- Retaining
 - Content can't be permanently deleted before ...
- Deleting
 - Content permanently delete at the end of ...

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Retention Actions



- Retain Only
- Delete Only
- Retain and Delete

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Apply Retention Policies



- Exchange email
- SharePoint site
- OneDrive accounts
- Microsoft 365 Groups
- Skype for Business
- Exchange public folders
- Teams channel messages
- Teams chats
- Yammer community messages
- Yammer private messages

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Journey to the Cloud

Information Protection Licensing



Discover



Classify



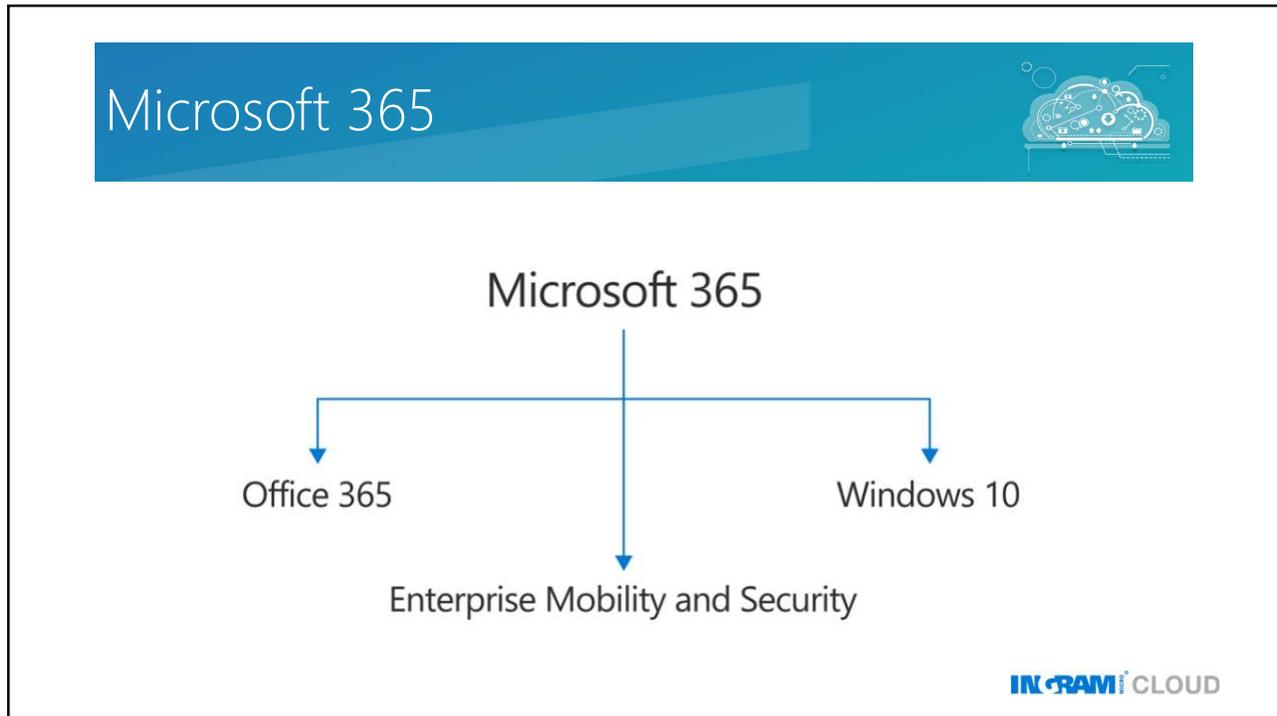
Protect



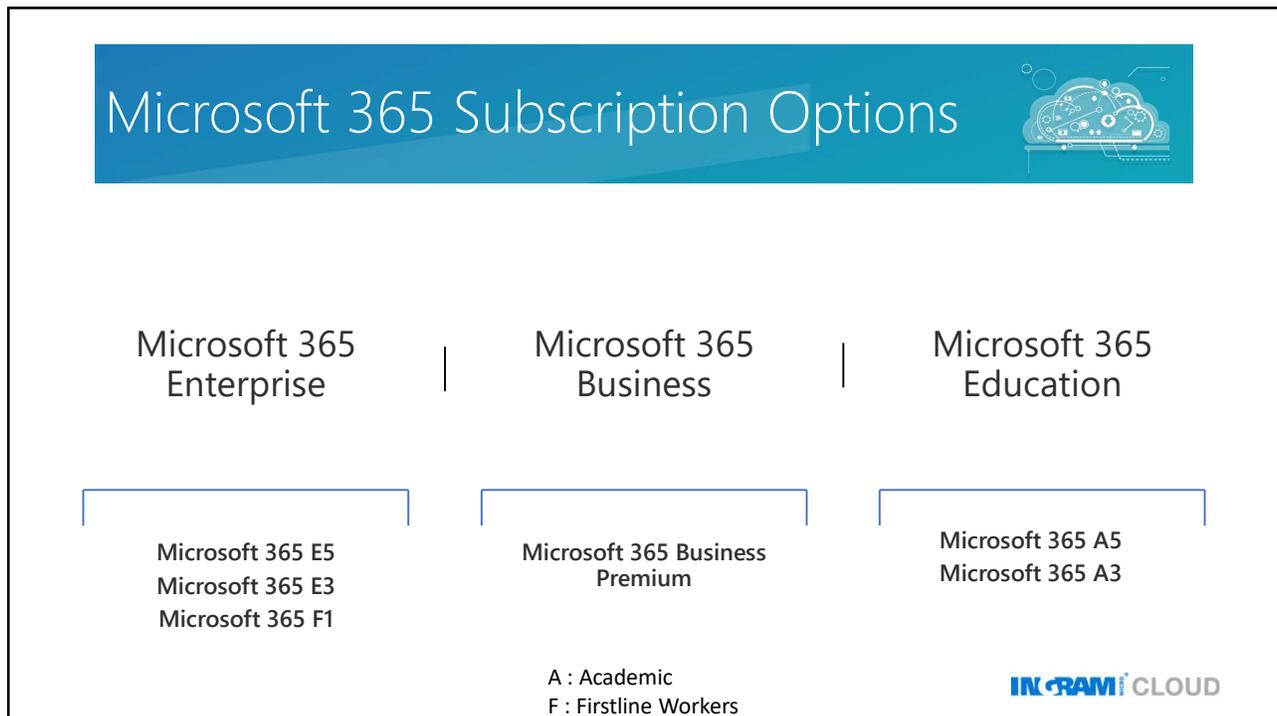
Monitor

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Microsoft 365 Subscription Options

Designed for a Secure Productive Enterprise

Designed for small & midsize business
Up to 300 users

Microsoft 365 Enterprise	Microsoft 365 Business	Microsoft 365 Education
<ul style="list-style-type: none"> Microsoft 365 E5 Microsoft 365 E3 Microsoft 365 F1 	<ul style="list-style-type: none"> Microsoft 365 Business Premium 	<ul style="list-style-type: none"> Microsoft 365 A5 Microsoft 365 A3

A : Academic
F : Firstline Workers

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Enterprise Mobility + Security

- Bundles five products
 - Entra ID
 - Microsoft Intune
 - Information Protection
 - Microsoft Cloud App Security
 - Advanced Threat Analytics

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EnterPrise Mobility & Security Suites



- EM + S E5
- EM + S E3

BENEFIT / EM+S SKU	Identity & access management	Managed mobile productivity	Information protection	Identity-driven security
EM + S E5	Azure Active Directory Premium P2	Microsoft Intune	Azure Information Protection Premium P2	Microsoft Cloud App Security
EM + S E3	Azure Active Directory Premium P1	Microsoft Intune	Azure Information Protection Premium P1	Microsoft Advanced Threat Analytics



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Microsoft 365 E3, E5, E5 Security, E5 Compliance



Information protection	Microsoft 365			
	E3	E5	E5 Security ¹	E5 Compliance ¹
Azure Information Protection Plan 1	•			
Azure Information Protection Plan 2		•		•
Manual, default, and mandatory sensitivity labeling in Microsoft 365 apps	•	•		
Automatic sensitivity labeling in Microsoft 365 apps		•		•
Manual sensitivity labeling for Teams meetings ²		•		•
Manual labeling with the AIP app and plugin	•	•		
Automatic labeling in the AIP plugin		•		•
Default sensitivity labels for SharePoint document libraries		•		•
Automatic sensitivity labels in Exchange, SharePoint, and OneDrive		•		•
Sensitivity labels based on Machine Learning/Trainable Classifiers/Exact Data Match		•		•
Sensitivity labeling for containers in Microsoft 365	•	•		
Basic Message Encryption	•	•		
Advanced Message Encryption		•		
Customer Key		•		
Personal Data Encryption	•	•		

Description	SKU	PFAM	License/Device		
			Pool	Buy	1M Subscr
<input type="checkbox"/> M365 E5 IP & Govern Sub Per User	1C9-00002	M365 E5 IP & Govern	SER		5.57

IPG SKU Information Protection & Governance



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IPG E5 or IPG F5



+ = Can be added
N/A = Not available

Security and compliance	E3	E5	F1	F3
Microsoft 365 E5 Security	+	•	N/A	N/A
Microsoft 365 E5 Compliance	+	•	N/A	N/A
Microsoft 365 E5 Info Protection and Governance	+	•	N/A	N/A
Microsoft 365 E5 Insider Risk Management	+	•	N/A	N/A
Microsoft Purview Insider Risk Management forensic evidence ¹⁰	N/A	+	N/A	N/A
Microsoft 365 E5 eDiscovery and Audit	+	•	N/A	N/A
Microsoft 365 F5 Security	N/A	N/A	+	+
Microsoft 365 F5 Compliance	N/A	N/A	+	+
Microsoft 365 F5 Security + Compliance	N/A	N/A	+	+
Microsoft 365 F5 Info Protection and Governance	N/A	N/A	+	+
Microsoft 365 F5 Insider Risk Management	N/A	N/A		
Microsoft 365 F5 eDiscovery and Audit	N/A	N/A		
Microsoft Defender for Identity	+	•		



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IPG E5 SKU + Business Premium



Supplemental Licenses for Small and Medium-sized Businesses



• = Included
+ = Can be added
N/A = Not available

Security and Compliance	Microsoft Teams Essentials ¹	Microsoft 365 Business		
		Basic	Standard	Premium
Microsoft 365 E5 Info Protection and Governance	N/A	+ ¹	+ ¹	+ ²
Microsoft 365 E5 Insider Risk Management	N/A	+		+
Microsoft 365 E5 eDiscovery and Audit	N/A	+	+	+
Microsoft Defender for Business	N/A	+	+	•
Microsoft Defender for Business servers add-on for Microsoft Defender for Business	N/A	+ ³	+ ³	+ ³
Microsoft Defender for Identity	N/A	+		+
Microsoft Defender for Office 365 Plan 1	N/A	+	+	•
Microsoft Defender for Office 365 Plan 2	N/A	+	+	+
Microsoft Defender for Cloud Apps	N/A	+	+	+
App governance add-on for Microsoft Defender for Cloud Apps	N/A	+ ²	+ ²	+ ²
Microsoft Defender for Endpoint Plan 1	N/A	+	+	+
Microsoft Defender for Endpoint Plan 2	N/A	+	+	+
Premium Assessments add-on for Compliance Manager ⁷	N/A	+	+	+
Azure Active Directory Premium Plan 1	N/A	+	+	•
Azure Active Directory Premium Plan 2	N/A	+	+	+
Microsoft Intune	N/A	+	+	+
Microsoft Purview Data Loss Prevention (for email and files)	N/A	+	+	+
Exchange Archiving	N/A	+	+	•
Microsoft Intune Remote Help	N/A	+ ⁴	+ ⁴	+

¹ Requires E5, E5 or Azure Information Protection Plan 1 standalone required.
² Requires Microsoft Defender for Cloud Apps.
³ See details on available assessments.
⁴ Requires Microsoft Intune.
⁵ Requires Microsoft Defender for Business or Microsoft 365 Business Premium. Maximum quantity/seat cap is 60 licenses per customer.



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Wrap-up



- The Security Opportunity
- Microsoft Information Protection
- Know Your Data
- Protect Your Data
- Prevent Data Loss
- Govern Your Data
- Information Protection Licensing



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Thank You !

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