



Cyberdefense

Cyberdefense n a nutshell



We are the trusted cyber partner committed to create value for all by delivering the safest digital space

+500

sources continuously feed into our threat intelligence datalake 40,000

suspicious websites closed every year €1.1 billion

in 2023 +11% YtoY

24/7/365

continuous

worldwide

monitoring of

security systems



Over 3,000

multi-skilled cybersecurity experts



+9,000

customers worldwide, best in class in all verticals



Leader in European Managed Security Services

⊜IDC Forrester

Listed vendor in five reports:

Managed Detection and Response, Incident Response and Digital Forensics, OT Security, Threat Intelligence & Managed Security Services

Gartner

129,000

incidents analyzed in 2023

Our value alongside Microsoft

Unrivalled Threat Intelligence

Attacker Infrastructure active probing

Dark Web and Ransomware leak sites

Takedown of fraudulent domains & phishing sites

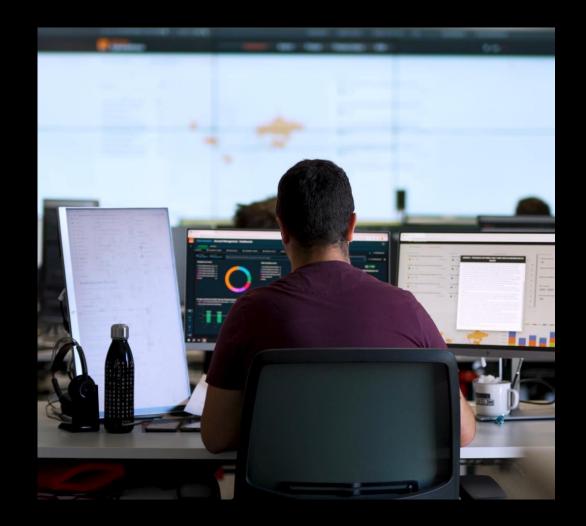
Established leaders

Co-innovation

Member of Microsoft Intelligent Security Association (MISA) & Microsoft-verified MXDR solution badge holder.

Microsoft-certified

More than 140 Microsoft certified experts over 3,000 cybersecurity people.



Microsoft Solutions











Azure

Defender

Sentinel

PurView

Copilot

Architecture
Identity and Access
Management
Security Assessment
Security Hardening

Defender XDR
Defender for Cloud
Defender for IOT
Vulnerability Management

Integration services
Threat Hunting
Log Optimization
Managed SIEM

Consulting & Integration Compliance Audits Security Assessment M365 Security Readiness Check

16 certified engineers in local Swiss team

Many more available from global teams

Early 2025

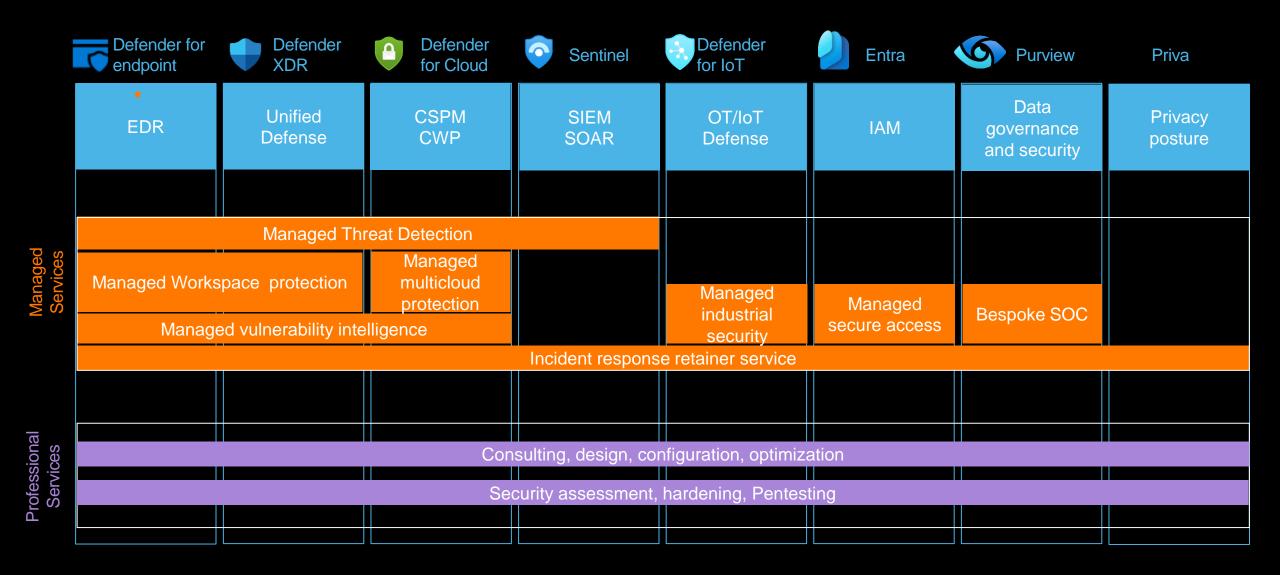
Dedicated

Dedicated

events coming

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Our offerings for Microsoft security





Our Microsoft Advisory Services at a glance



Quick access to Microsoft experts at all times



Reassurance that your Microsoft products are correctly secured



Proactive and reactive management of Microsoft Defender and Sentinel



A strategic planning tailored on your needs after discuss delivery, report and feedback



Peace of mind with 24/7 Security
Operations Centre



Hands-on implementation you can count on

More Information on our Website:

https://www.orangecyberdefense.com/ch/offering/professional-services/microsoft-consulting-advisory



Comprehensive data security

Top data security concerns



Data security incidents are widespread

83%

of organizations experience more than one data breach in their lifetime¹

Malicious insiders account for 20% of data breaches, adding to costs

\$15.4M

Total average cost of activities to resolve insider threats over 12 month period²

Organizations are struggling with a fragmented solution landscape

80%

of decision makers purchased multiple products to meet compliance and data protection needs³

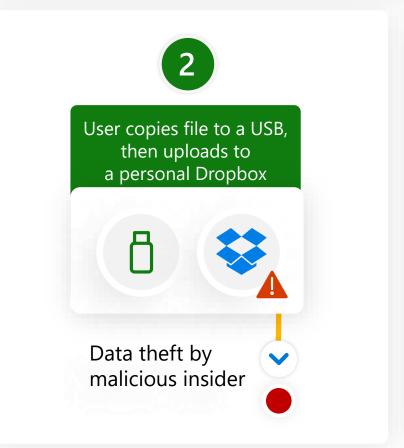
- 1. Cost of a Data Breach Report 2022, IBM
- 2. Cost of Insider Threats Global Report 2022, Ponemon Institute
- 3. February 2022 survey of 200 US compliance decision-makers (n=100 599-999 employees, n=100 1000+ employees) commissioned by Microsoft with MDC Research

Data security incidents can happen anytime, anywhere



Data at risk of misuse if organization has no visibility into their data estate







Organizations need to...



Discover and protect sensitive data throughout its lifecycle

Understand user activity context around the data and identify risks

Prevent data from unauthorized use across apps, services, and devices







Balance data security and productivity

Fortify data security with Microsoft Purview



Information Protection

- Discover, classify, and protect data at scale, using automation and ML
- Productivity tools with built-in userselectable sensitivity labels for precise controls
- Data is protected (encrypted)
 across environments, throughout
 its lifecycle

Insider Risk Management

- Leverage **analytics**, **machine learning**, **sequencing** to understand user context and intent
- Investigate potential incidents with curated, high-quality, and enriched alerts and evidence
- Ensure user privacy while identifying highest risk users

Data Loss Prevention

- Prevent unauthorized use, like improperly saving, storing or printing sensitive data
- Create, deploy, and manage
 DLP policies across all cloud, apps,
 and devices from a single location
- Leverage data classification, labeling, and user insights to finetune and adapt DLP policies

Adaptive Protection

Dynamically adjust data security controls based on user risk level

Fortify data security with an integrated approach





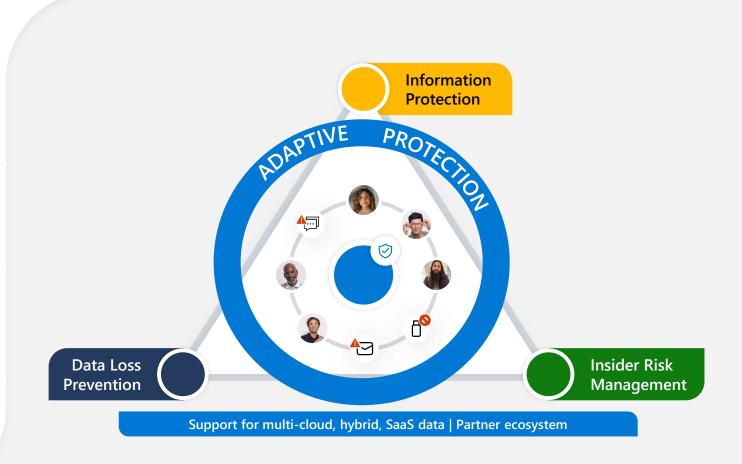
Discover and auto-classify data and prevent it from unauthorized use across apps, services, and devices



Understand the user intent and context around sensitive data to identify the most critical risks



Enable Adaptive Protection to assign appropriate DLP policies to high-risk users



Adaptive Protection in Microsoft Purview

Optimize data security automatically

Context-aware detection

Identify the most critical risks with ML-driven analysis of both content and user activities

Dynamic controls

Enforce effective controls on high-risk users while others maintain productivity

Automated mitigation

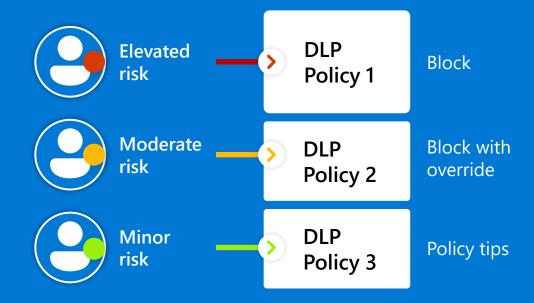
Minimize the impact of potential data security incidents and reduce admin overhead

Insider Risk Management

Detect risky users and assign risk levels

Data Loss Prevention

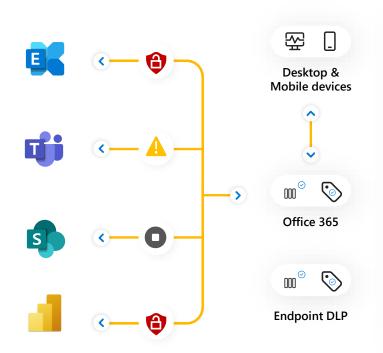
Dynamically apply preventative controls

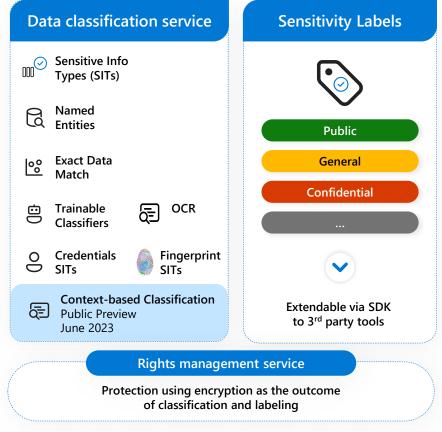


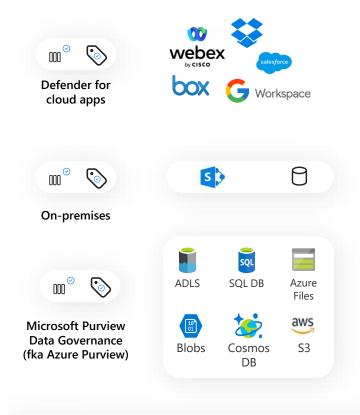


Microsoft Purview Information Protection

Microsoft Purview Information Protection







> Advanced compliance solutions

Communication

compliance

Insider risk

management

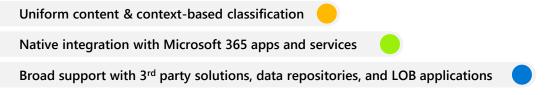
eDiscovery

(premium)

[원]

Microsoft

Priva



Sensitivity labels span your entire data estate

- They are a representation of your information taxonomy.
- They describe the priority assigned to your categories of sensitive information.



Content labels



Applied To: Office apps, Power BI reports, Azure Data

Protections: Encryption and visual markings

Automation: Can be applied either manually by users or automatically based on classification

Container labels



Applied To: SharePoint sites, Teams channels, Microsoft 365 groups

Protections: Access control, privacy settings, conditional access

Automation: Can be applied manually by site/Team or group owners

Powerful controls that ensure labels are applied where needed Apply labels by default, make them mandatory, audit label downgrades

Best-in-class classification technologies

Sensitive info types

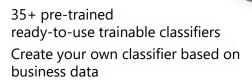
and dictionaries



200+ out of the box info types like SSN, CCN Clone, edit, or create your own Supports regex, keywords,

AVAILABLE TODAY

Trainable classifiers



AVAILABLE TODAY

Named entities



50+ entities covering person name, medical terms, and drug names Best used in combination with other sensitive info types

AVAILABLE TODAY

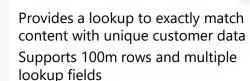
Credentials SITs



42 new SITs for digital authentication credential types Use in auto-labeling and DLP policies to detect sensitive credentials in files

AVAILABLE TODAY

Exact data match



AVAILABLE TODAY

Fingerprint SITs



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Detect exact or partial matching of sensitive intellectual property Use in Exchange, SharePoint, Teams and Devices

AVAILABLE TODAY

Optical Character Recognition (OCR)



Expanded OCR for EXO, SPO, ODB, Teams & endpoint devices Supports over 150 languages Supports image files and images embedded in PDFs

AVAILABLE TODAY

Context-based classification



ODSP default site label Service-side auto-labeling

- File extension
- · Document name contains word
- Document property is
- Document size greater than
- Document created by

ROADMAP ITEM

Policy simulation

1





3



4





Pick your scope

- Option 1: ALL SharePoint sites, OneDrive accounts and Email users
- Option 2: Subset of sites or accounts – Can use PowerShell for longer lists

Supported in auto labeling and DLM today, DLP by Jun'23



Simulate in your production environment

- Simulation is fast It normally takes a few hours to run depending on the size of your tenant
- Simulation is not intrusive No actions are applied
- Simulation for EXO triggers in near real time on email activity (not emails at rest)
- Simulation for ODSP triggers on files at rest
- Insights are best achieved on real production data



Gain confidence in your protection policy

- Review simulation results (both aggregate and sample files)
- Iterate and experiment to improve accuracy



Turn on protection policies after validating simulation results

- Existing Office Files at rest (Word, Excel, PowerPoint) in OneDrive & SharePoint are automatically protected
- New files added after the policy is enforced are also protected
- Emails in transit are automatically scanned for sensitive information and protected
- Cold data crawl: private preview coming in Q3'23

Protect your most important PDF files



Office PDF support



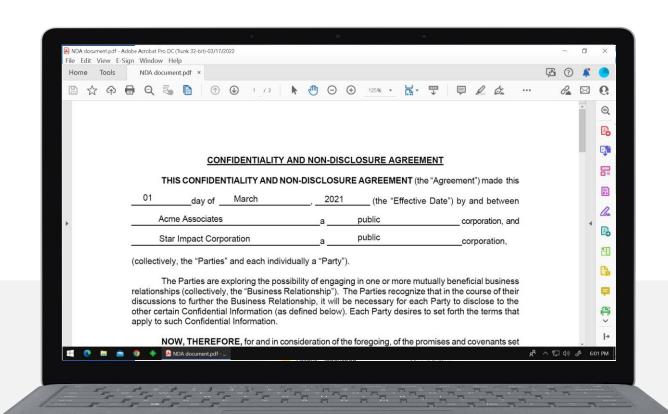
SharePoint renders protected PDFs



SharePoint auto-labeling support for PDF



Adobe Acrobat native support for labels



New sensitivity label



Define the scope for this label

Labels can be applied directly to files, emails, containers like SharePoint sites and Teams, schematized data assets, and more. Let us know where you want this label to be used so you can configure the applicable protection settings. Learn more about label scopes

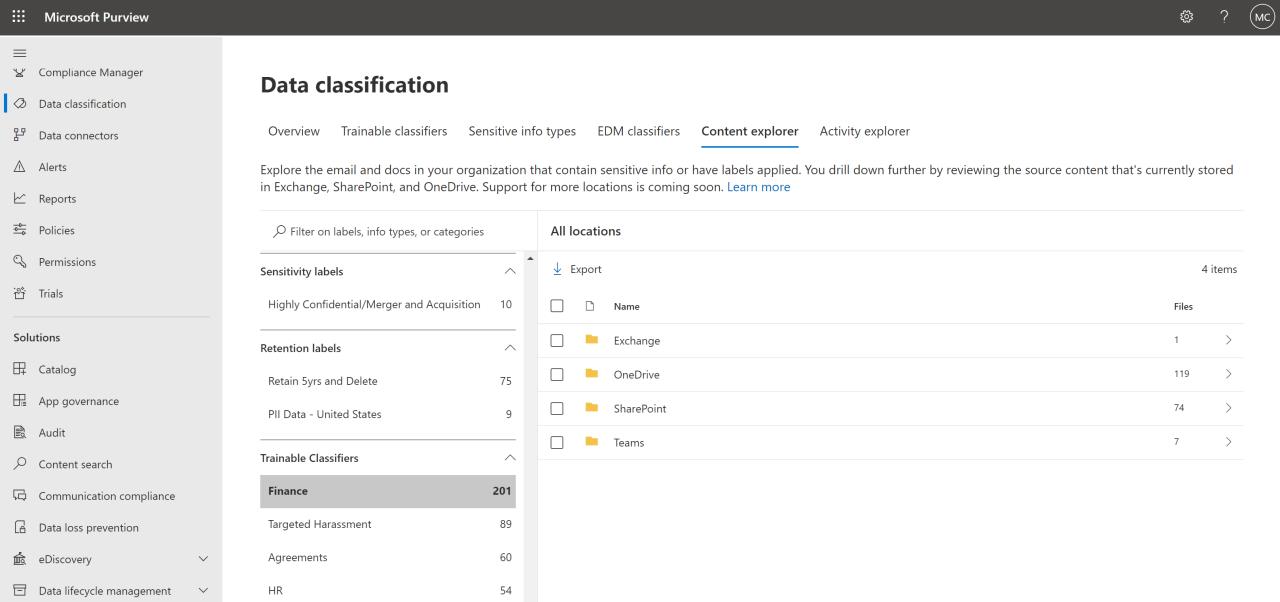
- Files & emails
 - Configure encryption and content marking settings to protect labeled emails and Office files. Also define auto-labeling conditions to automatically apply this label to sensitive content in Office, files in Azure, and more.
- Meetings

Configure access and permission settings for Teams meetings and content restrictions for Teams chats.

✓ Groups & sites

Configure privacy, access control, and other settings to protect labeled Teams, Microsoft 365 Groups, and SharePoint sites.

- Schematized data assets (preview)
 - Apply labels to files and schematized data assets in Microsoft Purview Data Map. Schematized data assets include SQL, Azure SQL, Azure Synapse, Azure Cosmos, AWS RDS, and more.

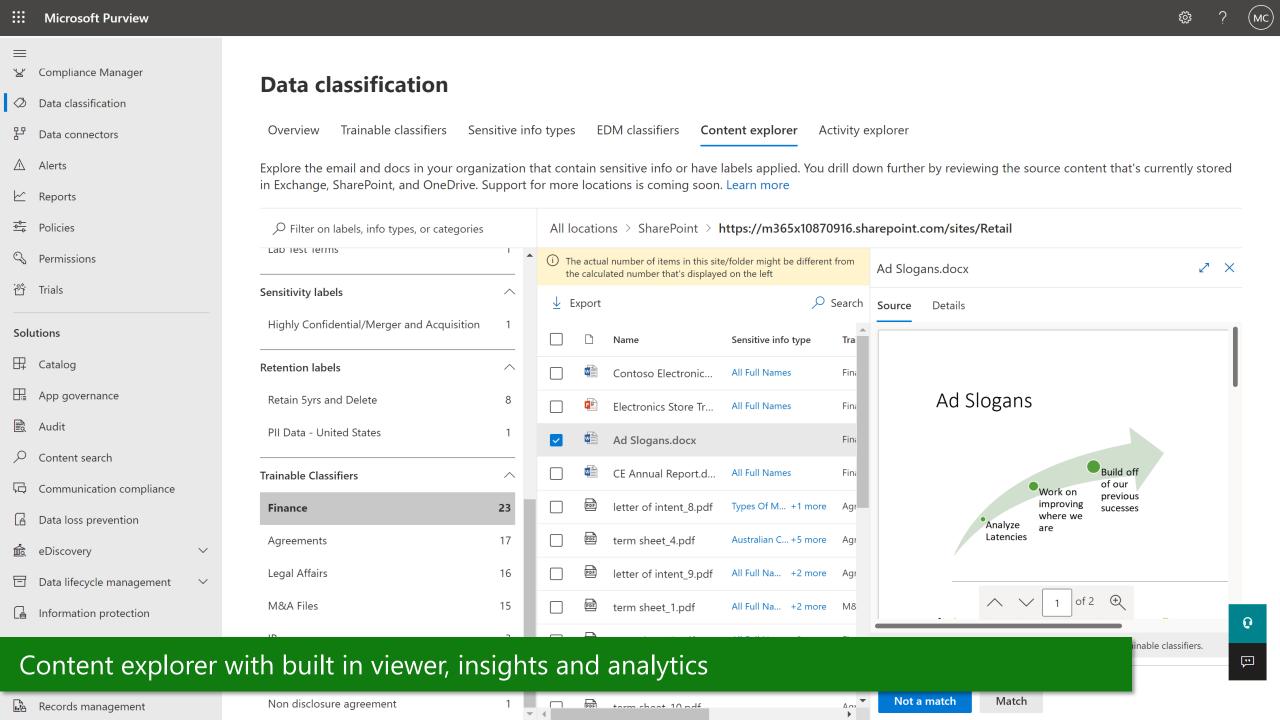


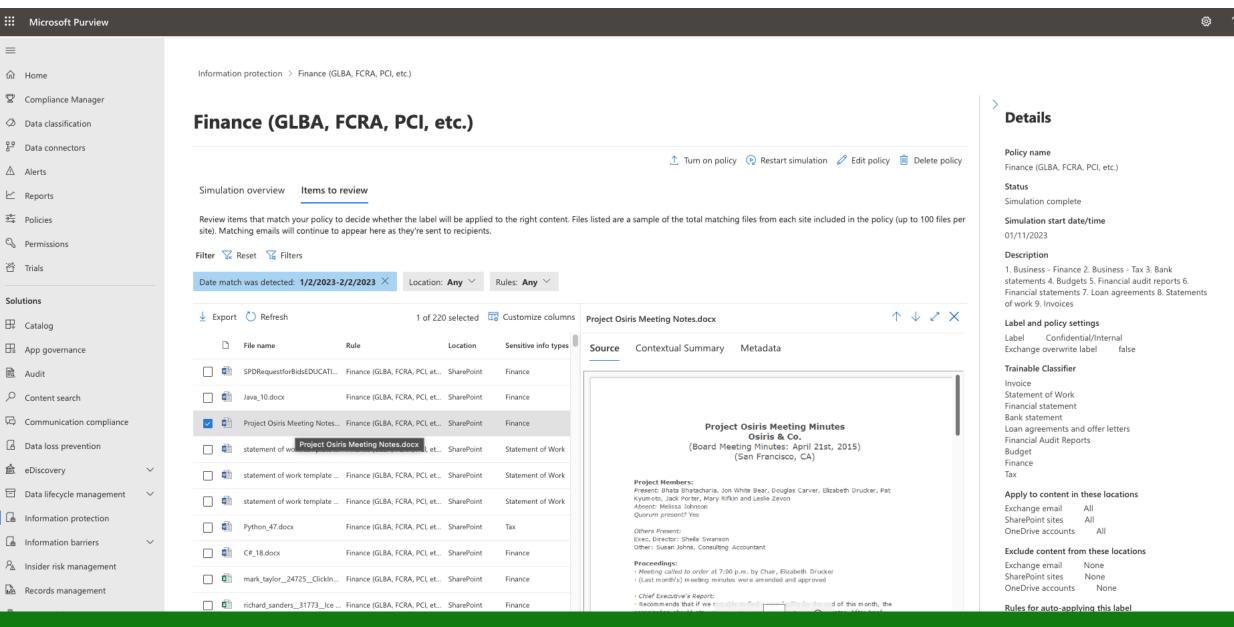
Intelligence: Content explorer shows the exact list of documents & brings focus to blind spots



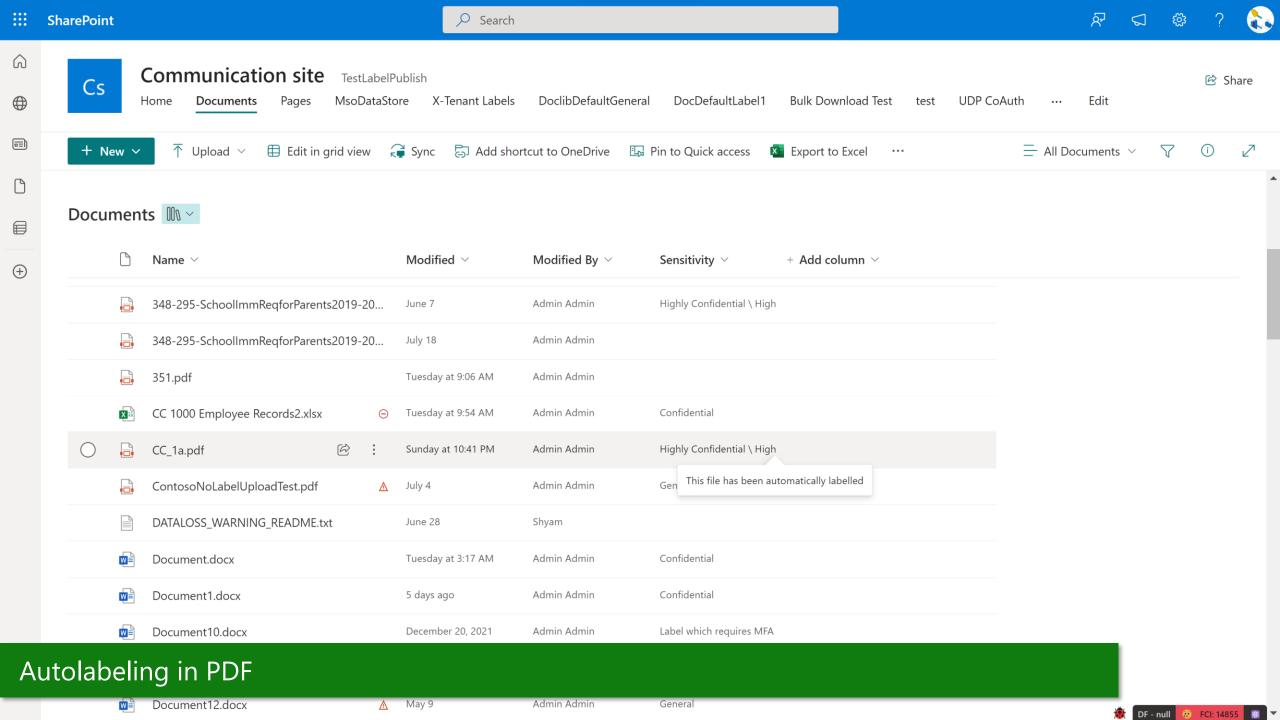
Information protection

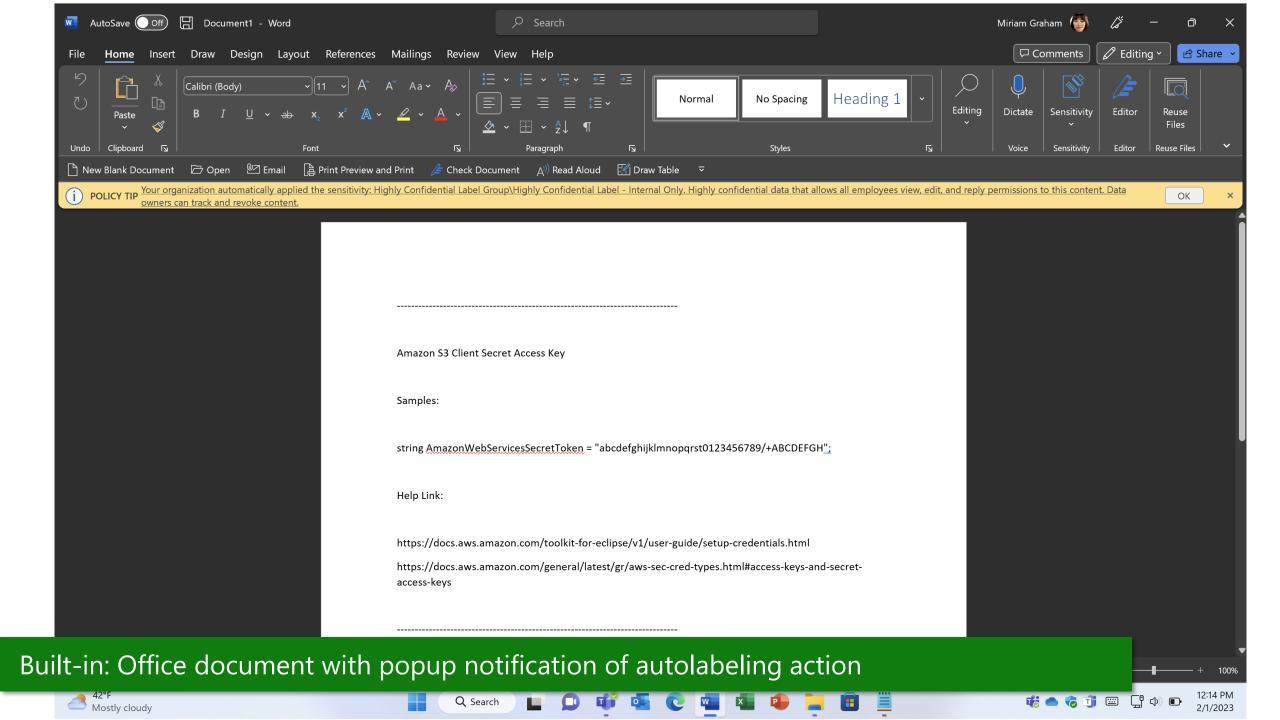
Legal Affairs





Intelligence: Simulation mode to build confidence around effectiveness of policy before broad rollout







Microsoft Purview Data Loss Prevention

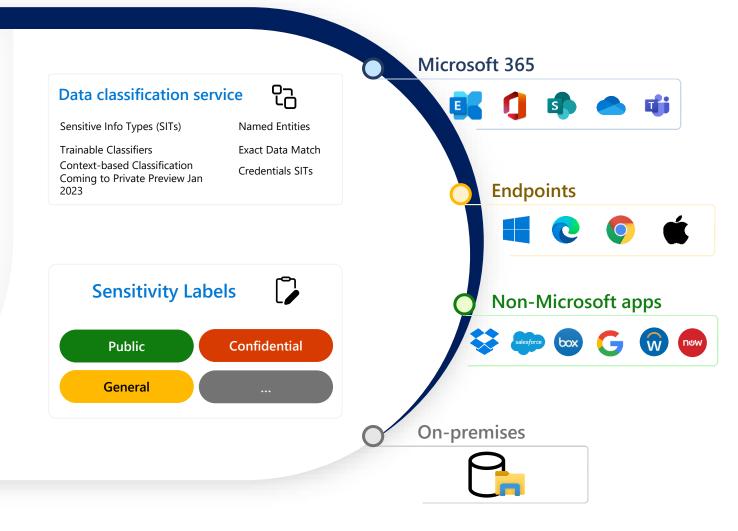
Cloud native with built-in protection

Save cost and scale effectively

Cloud managed and delivered, no on-premise infrastructure or agents needed

Built-in experiences in Microsoft 365 apps and services, Windows endpoints, On-premises

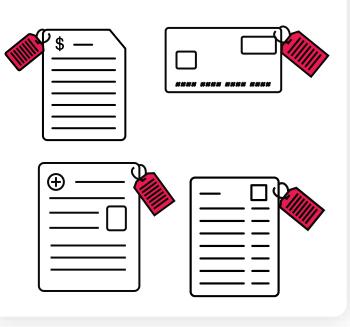
Extend protection to non-Microsoft applications and platforms



Integrated insights and alerting

Enrich policy and investigation with rich signals

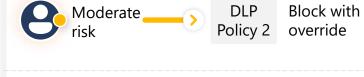
Leverage classification and labeling on sensitive data from Information Protection





Automatically apply risk insights from Insider Risk Management to DLP policies







Integrate alert investigation

Integrate DLP alerts with Microsoft 365
Defender and Sentinel for richer
investigation experience



DLP policy match



Endpoint patch required

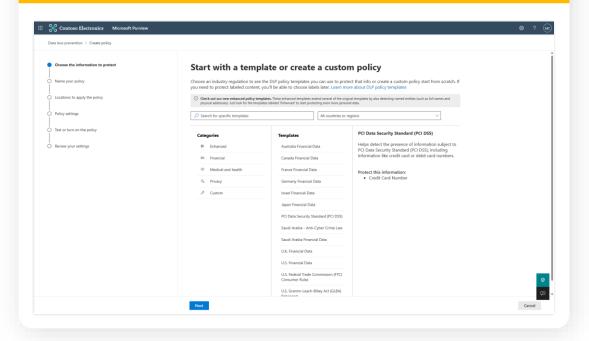


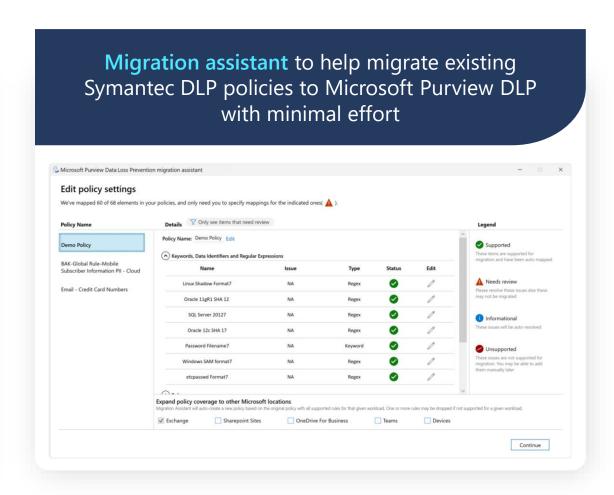
VM login compromised

Easy to get started

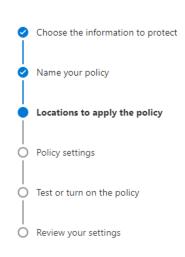
Enrich policy and investigation with rich signals

Pre-built templates for common regulations such as GDPR, HIPAA, PCI-DSS with sensitive information types and **default-policies**





Data loss prevention > Create policy



Choose locations to apply the policy

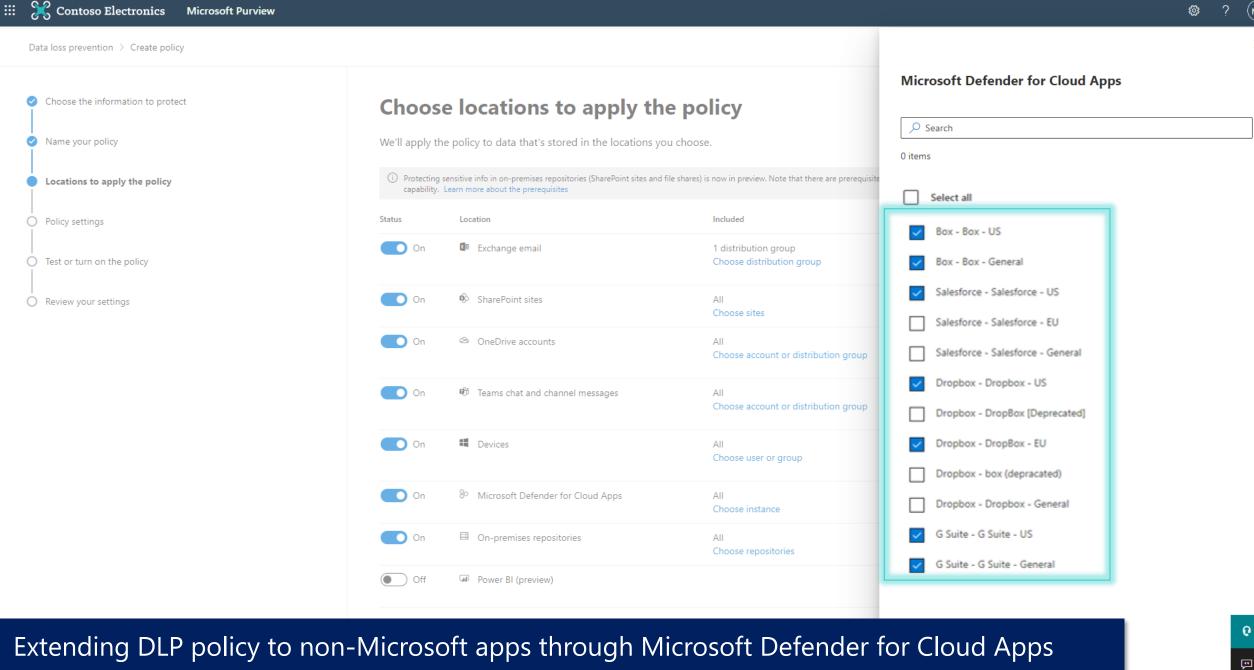
We'll apply the policy to data that's stored in the locations you choose.

① Protecting sensitive info in on-premises repositories (SharePoint sites and file shares) is now in preview. Note that there are prerequisite steps needed to support this new capability. Learn more about the prerequisites

Status	Location	Included	Excluded
O n	© Exchange email	All Choose distribution group	None Exclude distribution group
On	SharePoint sites	All Choose sites	None Exclude sites
On	☼ OneDrive accounts	All Choose account or distribution group	None Exclude account or distribution group
On	reams chat and channel messages	All Choose account or distribution group	None Exclude account or distribution group
On	■ Devices	All Choose user or group	None Exclude user or group
On On	⁸⁰ Microsoft Defender for Cloud Apps	All Choose instance	None Exclude instance
On On	■ On-premises repositories	All Choose repositories	None Exclude repositories
Off	Power BI (preview)		

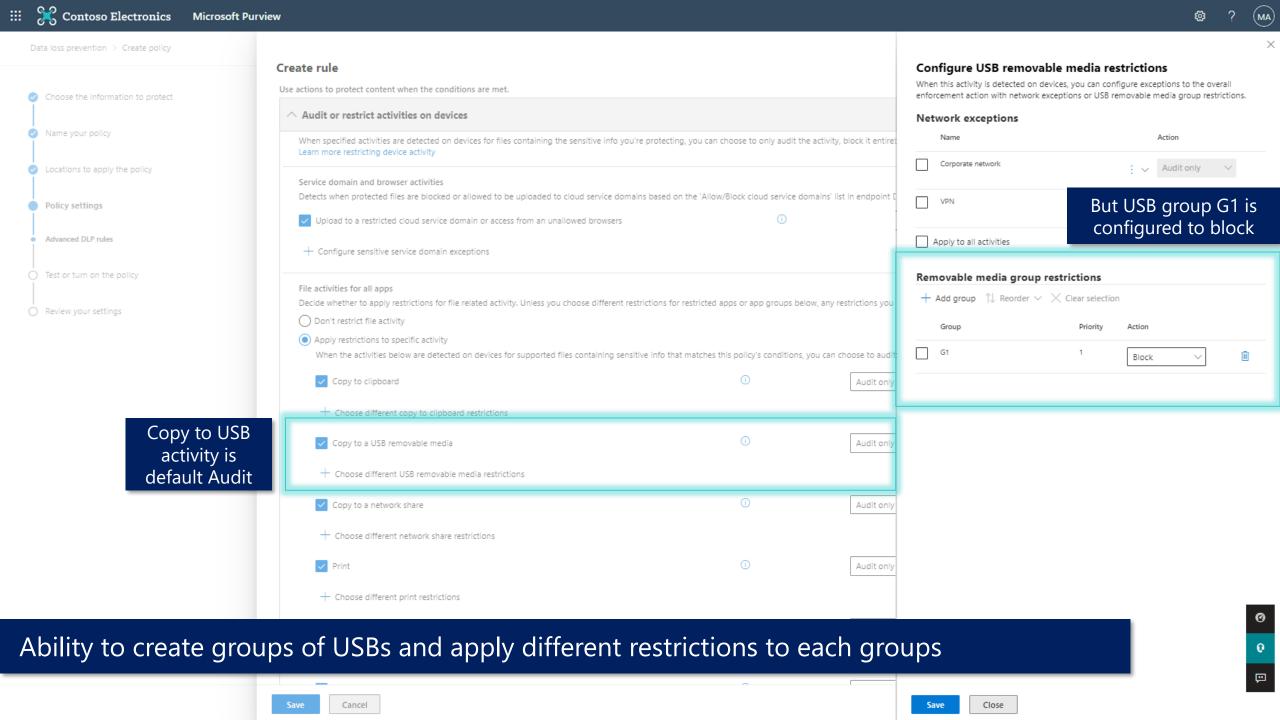
Unified DLP policy that can work across all workloads

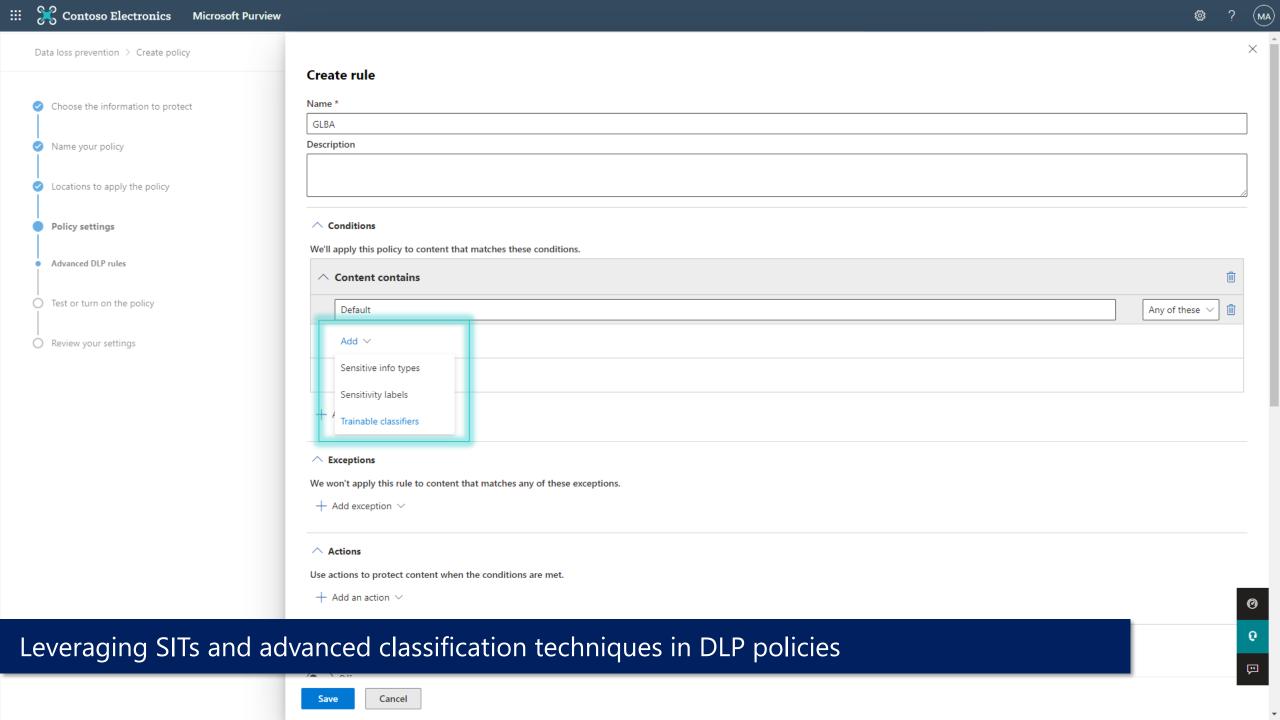


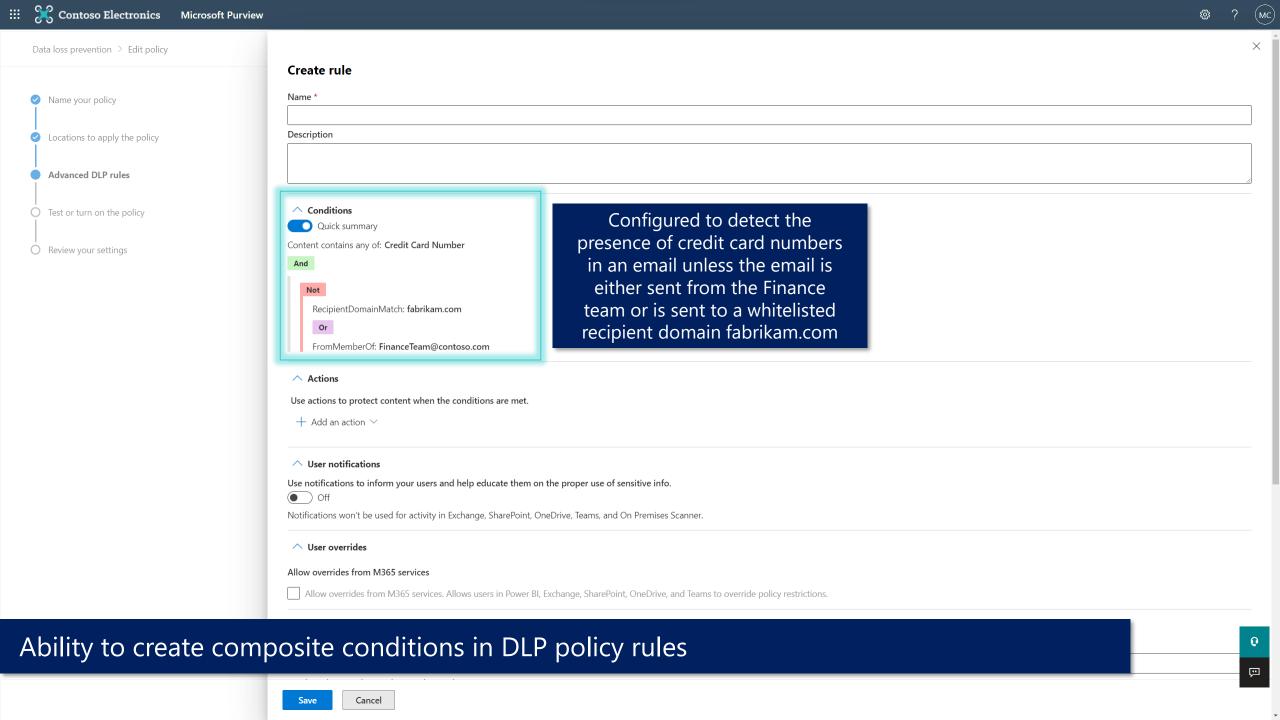


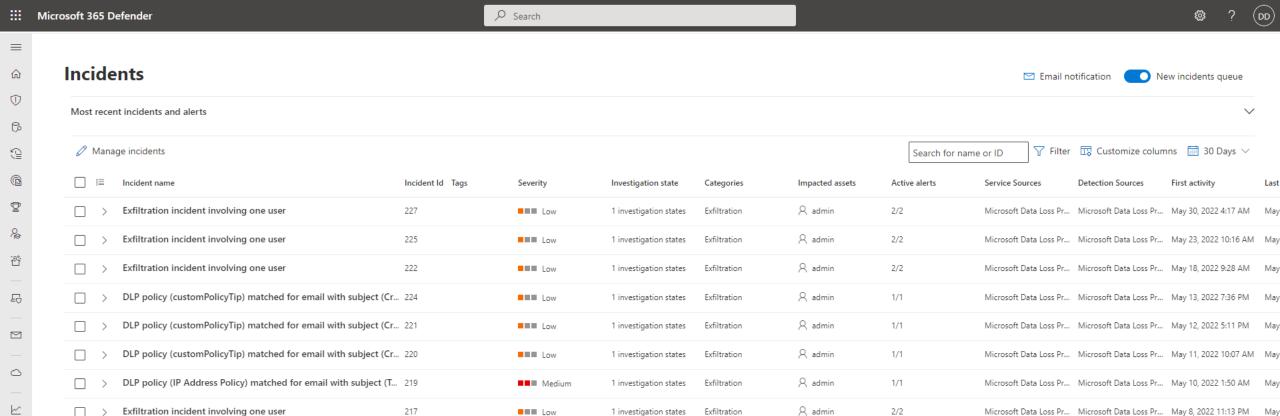
Back

Cancel









1 investigation states

Exfiltration

A admin

1/1

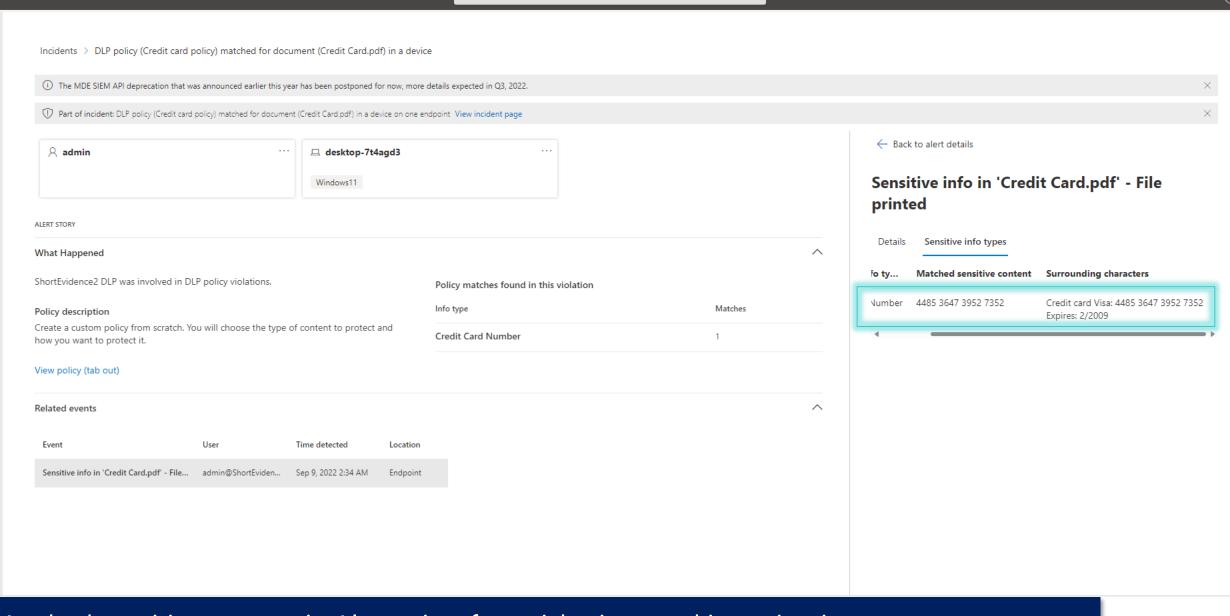
DLP alerts in Microsoft 365 Defender portal to facilitate a unified incident investigation

Low

DLP policy (Credit card Policy) matched for email with subject (... 216



Microsoft Data Loss Pr... Microsoft Data Loss Pr... May 5, 2022 10:35 PM



O Search

Microsoft 365 Defender

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Matched sensitive content in Alerts view for quick triage and investigation



Microsoft Purview Insider Risk Management

Insider Risk Management

Intelligently detect and mitigate the most critical risks



Privacy

Protect user trust and build a holistic insider risk program with **pseudonymization** and strong privacy controls.



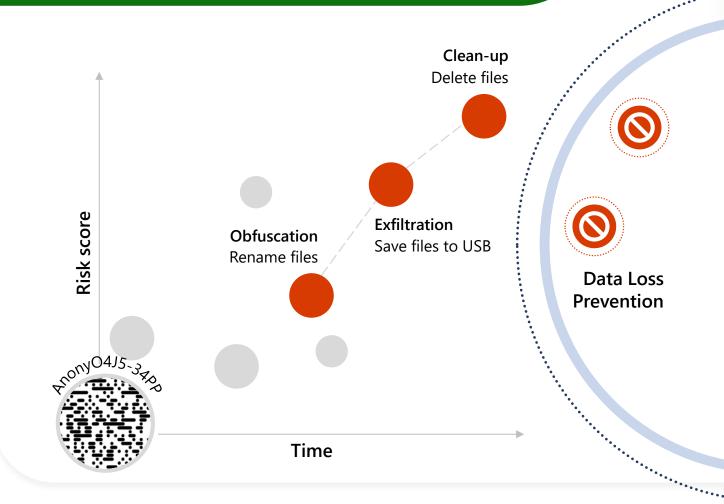
Simplicity

Identify hidden risks with 100+ built-in machine-learning models and indicators, requiring no endpoint agents.

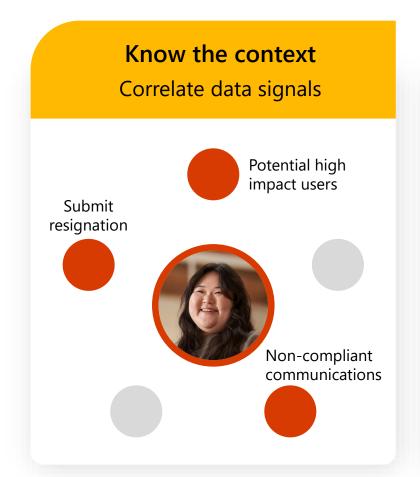


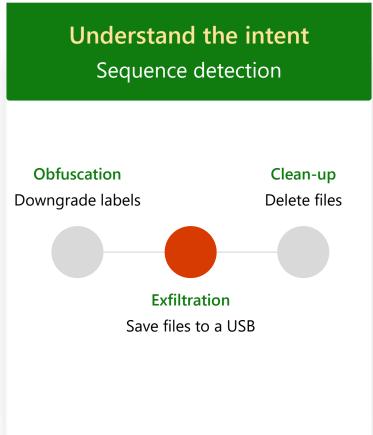
Acceleration

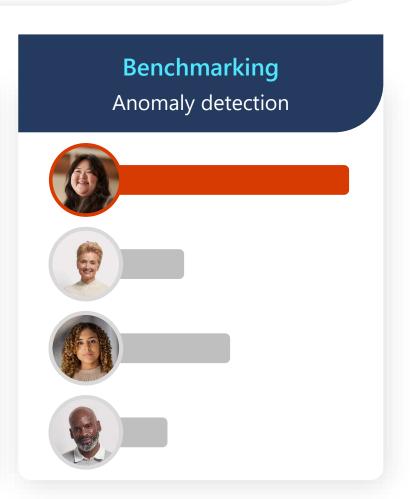
Expedite mitigation with enriched investigations and Adaptive Protection that enforce DLP controls dynamically.



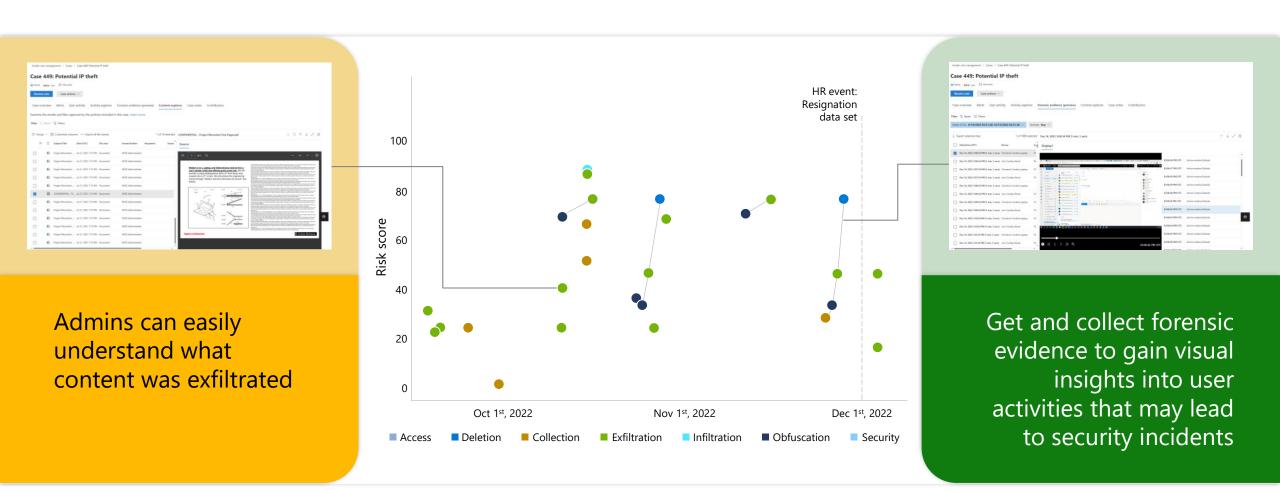
Leveraging machine learning to identify the most critical insider risks among noisy signals







Enable thorough investigations with interactive and enriched visual insights



Close panel

🚖 eDiscovery

Information protection

Easy to get started with recommended quick policies

Insider risk management > Analytics

Results from the last scan for risk activities

The insights below provide a summary of anonymized user activities detected. Activities scanned are the same ones detected by insider risk policies. After reviewing the insights, view their details to drill down further and set up a recommended policy to address potential risks.

Insights from September 15 - September 28

Potential data leak activities

1.3% of your users performed exfiltration activities

Activity from 23K users scanned

Recommendation: Set up a 'General data leaks' policy

Detects and alerts you of potential data leaks, which can range from accidental sharing of info outside your organization to data theft with malicious intent.

View details

Potential data theft activities

5.9% of users with a resignation date performed exfiltration activities

Activity from 219 users scanned

Recommendation: Set up a 'Data theft by departing users' policy

Detects and alerts you of potential data theft by departing users near their resignation or

4.6% of users with involving sensitive3.2% of users with files

1.1% of users per

0.8% of users dov

0.7% of users sha

organization

2.7% of users with

with people outsic

Potential data theft activities

The exfiltration activities below might be related to data theft by departing users near their resignation or termination date. After reviewing them, consider setting up the recommended policy to help address potential risks.

What we detected

The following is recent activity based on a scan of 219 users who are leaving your organization.

5.9% of users with a resignation date performed exfiltration activities

5% of users with a resignation date showing anomalous exfiltration activity volume

4.6% of users with a resignation date performed activities involving sensitive info

3.7% of users with a resignation date performed sequential activities that might indicate suspicious exfiltration behavior

3.2% of users with a resignation date downloaded SharePoint files

2.7% of users with a resignation date shared SharePoint sites with people outside your organization

2.3% of users with a resignation date shared SharePoint folders with people outside your organization

2.3% of users with a resignation date emailed people outside your organization

1.8% of users with a resignation date copied content to USB

1.8% of users with a resignation date printed a large number of files

1.4% of users with a resignation date shared SharePoint files with people outside your organization

1.4% of users with a resignation date copied sensitive content to personal cloud

0.9% of users with a resignation date shared files across network

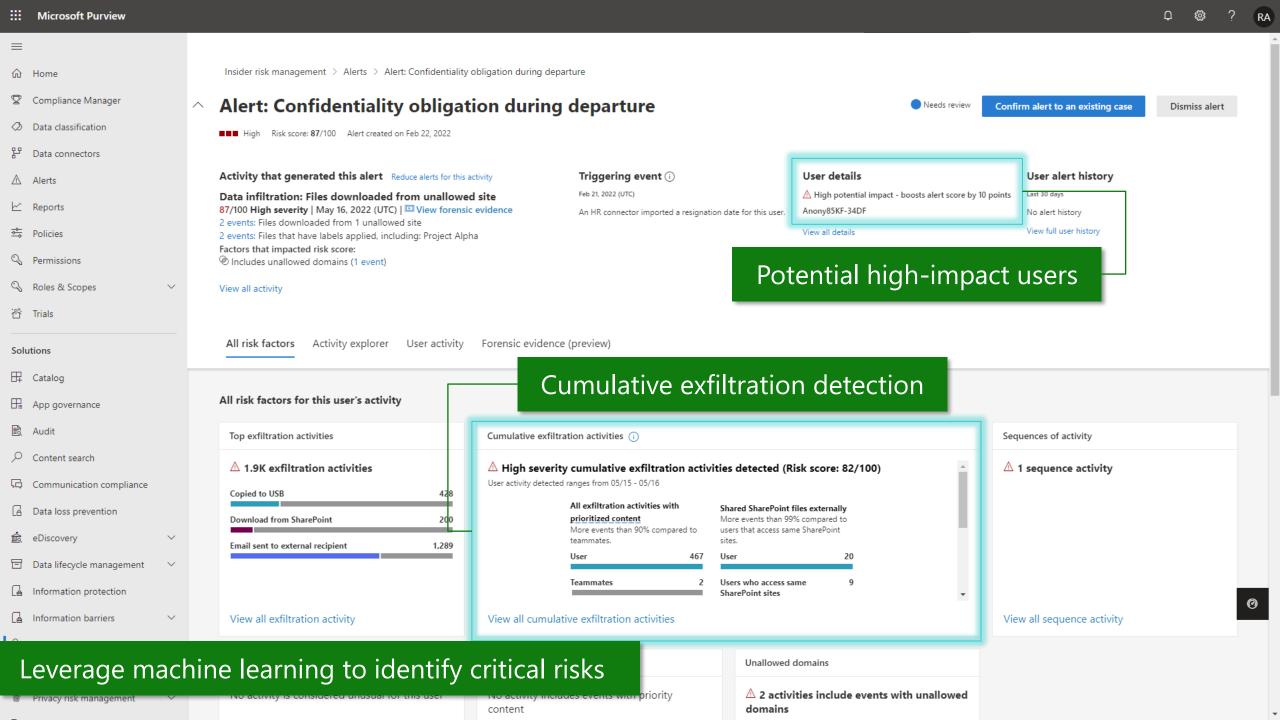
Recommendation

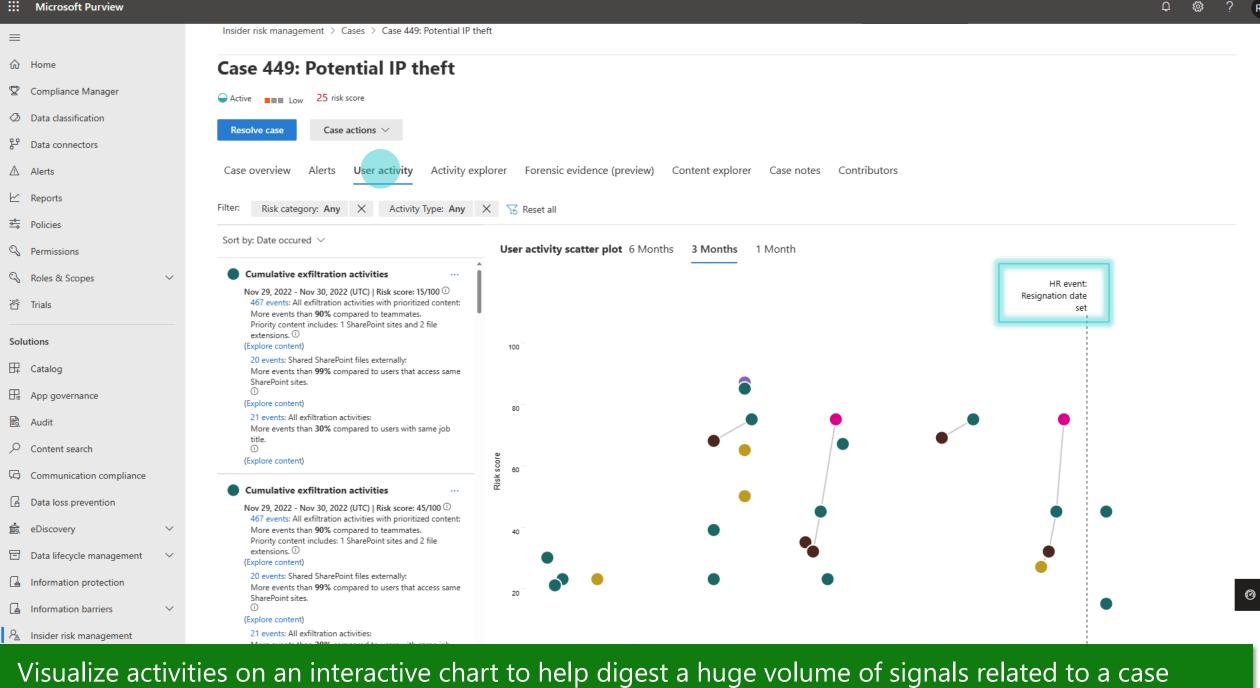
Create a 'Data theft by departing users' policy that detects data theft by users near their resignation or termination date, which can range from accidental sharing of info outside your organization to data theft with malicious intent.

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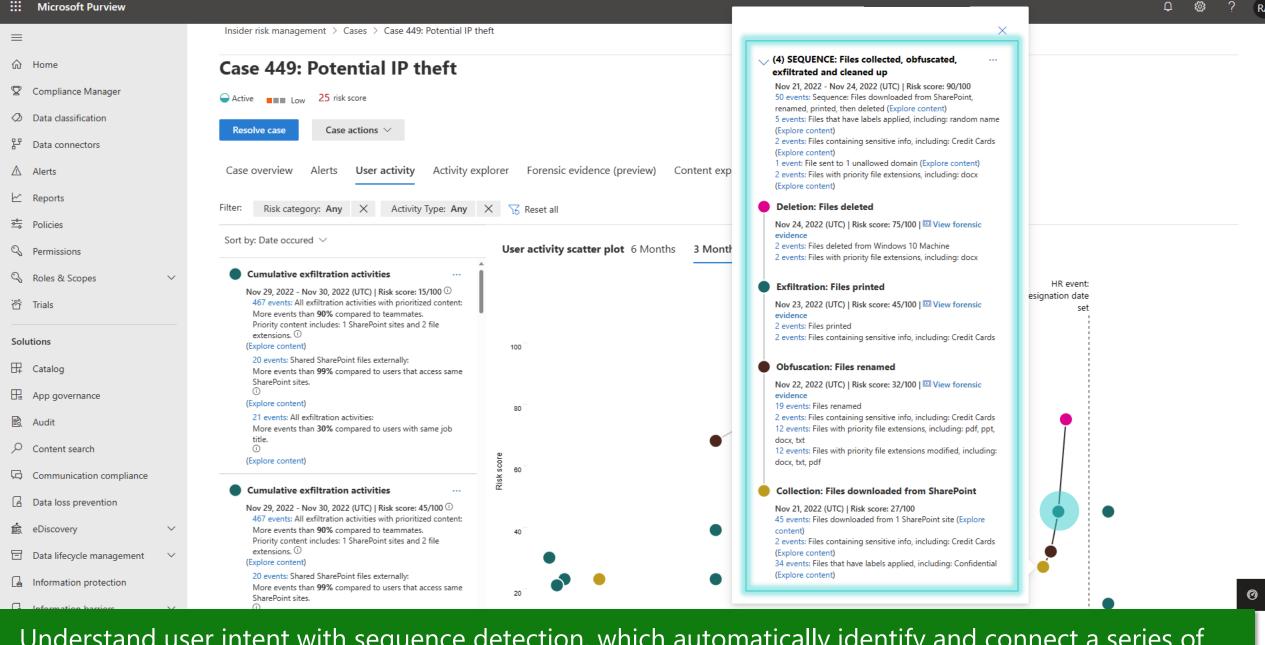
Get started

Close



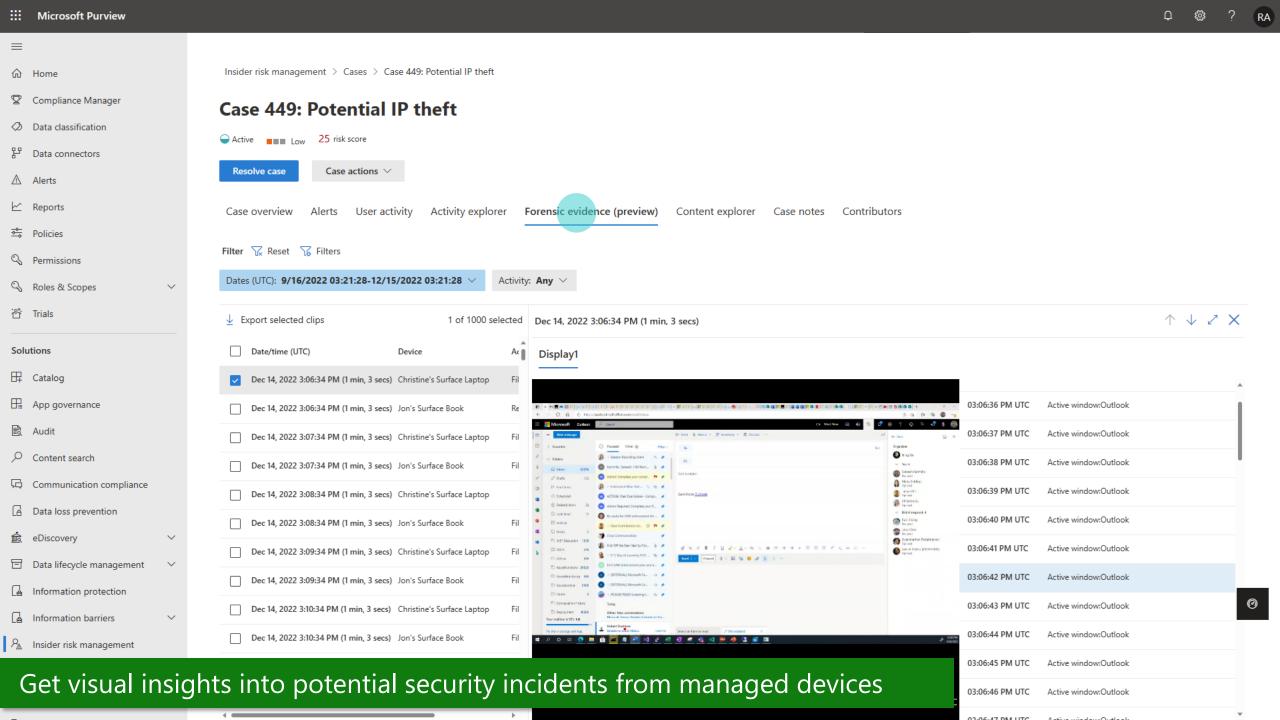


Deletion: Files deleted



Understand user intent with sequence detection, which automatically identify and connect a series of related activities

Deletion: Files deleted



Enable Adaptive Protection with Microsoft Purview

Optimize data protection automatically

Context-aware detection

Identify the most critical risks with ML-driven analysis in Insider Risk Management

Dynamic controls

Enforce effective DLP controls on high-risk users while others maintain productivity

Automated mitigation

Minimize the impact of potential data security incidents and reduce admin overhead

Insider Risk Management

Detect risky users and assign risk levels

Data Loss Prevention

Dynamically apply preventative controls









DLP Policy 2





DLP Policy 3



Rebecca, a marketing manager who's working on a confidential launch campaign for Contoso corporation.



Rebecca printed confidential information and was blocked with the right to override

Why did the same action result in two different controls?

Chris printed confidential information and was blocked



Chris, a data admin who's working on the same confidential project for Contoso corporation.

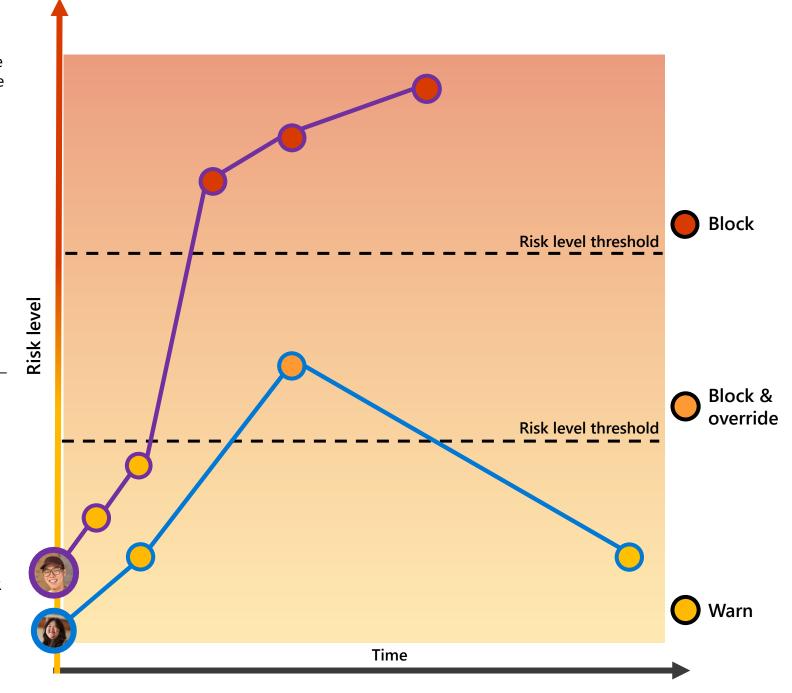




- Detected as a potential high impact user due to his level in the organization and the Azure Active Directory admin role
- Downgraded sensitivity labels on an unusual volume of SharePoint files prior to downloading them
- Submitted resignation
- >>> Tried to print confidential files
- Tried to copy confidential files to an USB drive



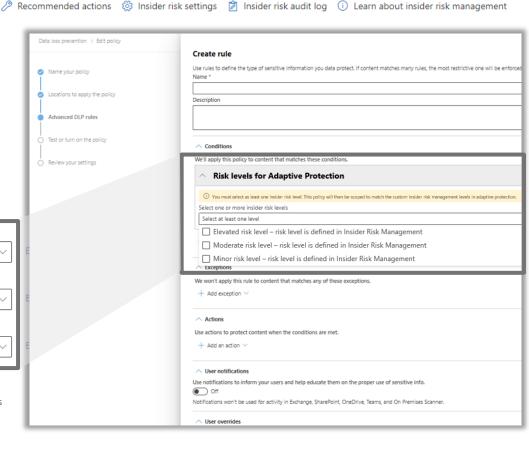
- Shared an unusual volume of sensitive information via Teams
- Printed confidential files and override the block with a valid business justification
- Emailed a confidential file to a PR agency after a period of non-concerning activities



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Insider risk management

Overview Alerts Cases Policies Users Forensic evidence requests Notice templates Adaptive protection Insider risk levels Summary Configure your settings and insider risk conditions for adaptive protection Insider risk levels Select the insider risk management policy to use for the risk levels Users in scope Test DRP IRM Policy DLP policies Configure risk levels You can select an out-of-box level configuration, or you can customize for each level Elevated risk level Custom elevated risk level Moderate risk level Custom moderate risk level Minor risk level Custom minor risk level Past activity detection Determines how far back adaptive protection will go to detect if a user meets the conditions for a risk level. This only applies for risk levels that are based on a user's daily activity. 7 days of previous activity Insider risk level timeframe Determines how long an insider risk level will remain assigned to a user before it is reset. (Maximum 30 days) 30 days



Set up Adaptive Protection to mitigate the most critical risks with the most effective DLP policy, saving security teams valuable time while ensuring better data security

Secure data in the age of AI with Microsoft Purview

Unparalleled visibility

Understand risks associated with sensitive data usage and user activity context across Al applications in your environment

Comprehensive protection

Employ ready to use and customizable policies to prevent data loss in Al prompts and protect data in Al responses

Compliance controls

Apply optimal data handling and storing policies to help meet business and regulatory requirements

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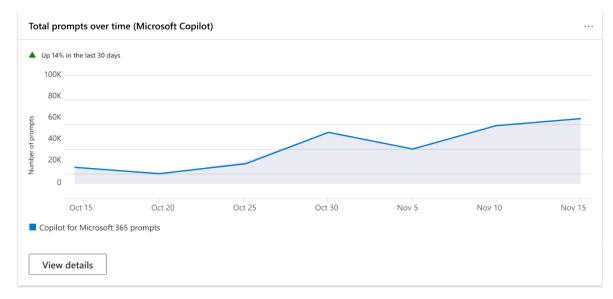


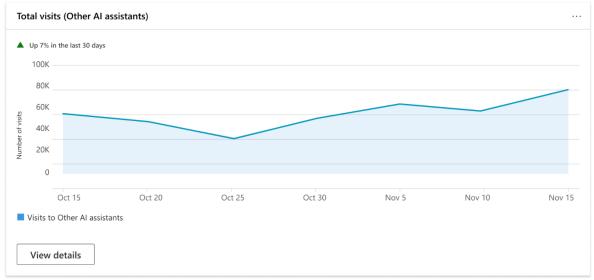


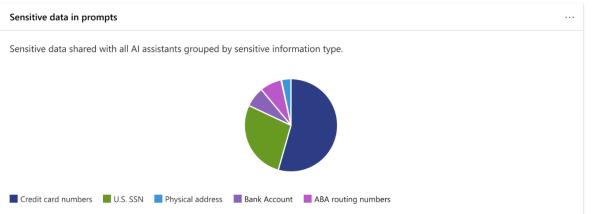
Al hub (preview)

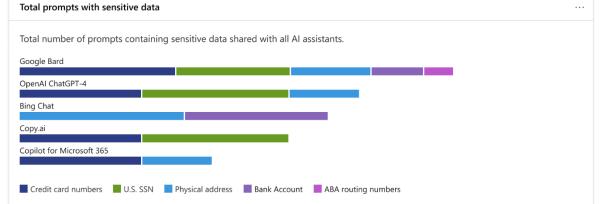
Analytics Policies Activity explorer

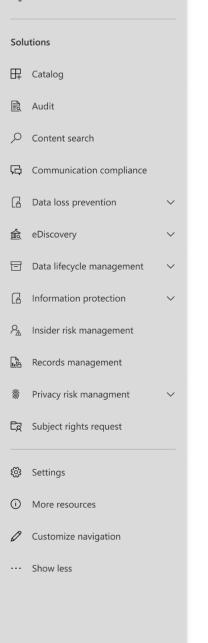
Al hub in Microsoft Purview provides insights to help security teams gain comprehensive visibility into data security risks.



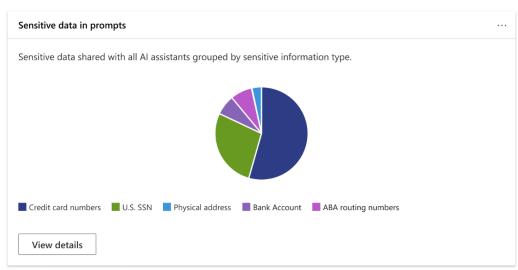












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Total users (Microsoft Copilot)

Total users who created a prompt

■ High risk ■ Medium risk ■ Low risk ■ None

View details





