

Three Steps for Protecting Your Data End-to-End



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A survey of compliance decision-makers showed that 95% were concerned about dataprotection challenges.²

Introduction

Organisations have seen a massive increase in their digital footprint with hybrid work, extending well beyond the traditional office.

That's led to more data fragmentation and exfiltration – all complicated by rapid growth across a multitude of applications, devices and locations. Many workers have also switched roles in search of greater fulfilment or flexibility, and that's added to these challenges, creating new blind spots across ever-growing data estates.¹

All these factors have CIOs and CISOs rethinking their approach to information protection. In a tracking survey of over 500 US compliance decision-makers, nearly all (95%) were concerned about data-protection challenges.²

- ¹ '<u>How Microsoft can help reduce insider risk during the Great</u> <u>Reshuffle, Alym Rayani</u>', Microsoft Security. February 28, 2022.
- ² 'September 2021 survey of 512 US compliance decision-makers commissioned by Microsoft from Vital Findings'.

IT and security teams are looking for better ways to manage the entire data lifecycle, across multicloud, hybrid cloud and on-premises environments. This end-to-end approach involves three key steps:

Step 1: Identify data

Determine where your data lives, what kind of data it is and how it's being used or shared

Step 2: Classify data

Classify and label data so that you know the right policies and risk mitigation to apply

Step 3: Prevent data loss

Strike a balance between risk-reduction and flexibility for your people with intelligent detection and control

The goal of this approach? To close gaps and minimise risk without sacrificing productivity.





When asked how much of their data is 'dark', 42% of organisations said at least half.³

This 'hidden' data can take many forms – from email attachments and customer call records to machine logs and video footage.

Step 1 Identify data

If you can't identify your data – where it lives, what type it is and how it's being used or shared – it's impossible to apply the right policies or protection.

Modern organisations continuously generate vast amounts of data. It's not just documents, emails and messages, but everything from security footage to geolocation data, all compounded by proliferation across apps, devices and storage, on premises and in the cloud.

Identifying all this data can be difficult, and 42% of organisations say that at least half of their data is 'dark'.³ That is, information collected, but unknown or unused for business purposes. Sometimes data becomes dark when the worker who created it switches projects or roles; often there are simply no systems in place to identify data at the point of creation or modification.

³ '<u>2022 State of Data Governance and Empowerment Report</u>', Enterprise Strategy Group. July 2022. Want to build an end-toend discovery workflow on one platform?

Learn about data discovery in Microsoft Purview at <u>Microsoft.com</u>. This challenge will only grow. The amount of new data that's created, captured, replicated and consumed is expected to more than double by 2026, with enterprise data growing more than twice as fast as consumer data.⁴

Artificial intelligence (AI) and machine learning (ML) can help, by recognising sensitive data – such as email addresses, health data, credit card numbers or intellectual property – and classifying it automatically. AI and ML can also increase classification accuracy and review data retroactively. These identification processes can span your entire data estate, preserving, collecting, analysing, reviewing and exporting content anywhere it lives, across any clouds.



⁴ '<u>Worldwide IDC Global DataSphere Forecast, 2022-2026: Enterprise</u> <u>Organisations Driving Most of the Data Growth</u>', John Rydning, IDC. May 2022.



Step 2 **Classify data**

Proper data classification helps you determine the right policies and risk mitigation for ensuring different types of data aren't accidentally or intentionally misused or accessed without authorisation. Encryption and watermarking can protect data even further – whether it's at rest, in transit or in use.

But classification and policies need to follow data as it travels around the organization. Labelling and protection policies can't be confined to discrete documents, they need to span your entire digital estate - from on-premises to cloudbased repositories, from Software-as-a-Service (SaaS) to OSnative apps.

Traditional classification approaches involve considerable manual work, which runs the risk of errors or inadvertently overlooking critical data. Built-in and trainable classifiers can help automate this process, and an integrated solution allows administrators to manage policies centrally, across all systems.

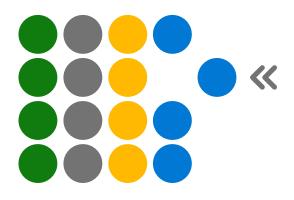
Want to better manage and protect sensitive data across your environment?

Learn about data classification and protection in **Microsoft Purview** at Microsoft.com.



policies both need to follow data as it travels.

For example, if an employee copies credit card numbers from a Microsoft Word document into Excel, the classification and policies should automatically apply to both documents.







Once you've identified and classified your data, data loss prevention (DLP) solutions can enforce end-to-end protection policies that mitigate threats like dark data and data exfiltration, so current and former employees do not – intentionally or inadvertently – share, expose or transfer sensitive data without authorisation.

Intelligent DLP solutions use context to strike a balance between providing flexibility and blocking high-risk actions. For example, individuals might be able to continue

with an action after being reminded about potential risks and applicable policies. This can help protect sensitive data while also training users to better understand risk.

DLP solutions help protect intellectual property and other critical business data, while also improving compliance with regulations such as the General Data Protection Regulation (GDPR), Health Information Portability and Accountability Act (HIPAA) and the California Consumer Privacy Act (CCPA).

A comprehensive approach to DLP enforces policies across your organisation consistently, protecting the 'weakest link' points in the data lifecycle.





DLP policy can prevent out-of-compliance actions.

For example, if an employee tries to download a spreadsheet with credit card numbers onto a flash drive or upload it to cloud storage, DLP policy could identify the activity as out of compliance and prevent it.

Want intelligent detection and control of sensitive information?

Learn about data loss prevention in Microsoft Purview at <u>Microsoft. com</u>.



A survey of compliance decision-makers showed that 79% had purchased multiple compliance and data-protection products.

A majority had purchased three or more.⁵

Don't bolt data protection on. Build it in.

Many organisations have tried a 'bolt-on' approach to information protection, using multiple solutions to manage discrete parts of the data lifecycle. But this forces your security, data governance, compliance and legal teams to stitch together a patchwork that's often ineffective and strains resources.

A 'built-in' approach can close the gaps, bringing together data identification, data classification and DLP. With an integrated solution, it's easier to centrally manage and enforce policies. It also reduces training time for users, who receive policy notifications in a familiar way, natively within applications.

⁵ '<u>February 2022 survey of 200 US compliance decision</u>-<u>makers (n=100 599-999 employees, n=100 1000+ employees)</u> <u>commissioned by Microsoft with MDC Research</u>'.

A built-in, integrated solution: Microsoft Purview

Microsoft Purview helps you meet the challenges of today's decentralised, data-rich workplace, with a comprehensive set of solutions that help you govern, protect and manage your entire data estate.

Go beyond governance.

<u>Learn more about protecting your data with Microsoft Purview</u> >

Interested in a specific area of data protection? Get more detailed information on how Microsoft Purview can help you with: Data discovery >

Data classification and protection >

Data loss prevention >

Microsoft Security

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