

### How to Avoid Data Breaches — Why Proactive Data Security Is a Must-Do



CEO Infotechtion, Microsoft MVP Atle Skjekkeland

Atle Skjekkeland is an information management innovator and educator specializing in how to best secure and govern unstructured data with Microsoft Purview. Atle is the CEO of Infotechtion, a consulting and solution firm specializing in data governance and security for Microsoft 365 and beyond with offices and staff in the US, EU, UK, and India.



CEO Infotechtion, Microsoft MVP

#### Vivek Bhatt

Vivek is a leading expert in Microsoft cloud, recognized as an early influencer together with Microsoft led information governance and records management journey. He has led several strategic Microsoft 365 and Azure cloud transitions for global enterprises across energy and utilities, financial services and UK public sector.



Principal Group Product Manager @ Microsoft | Data Security and Al

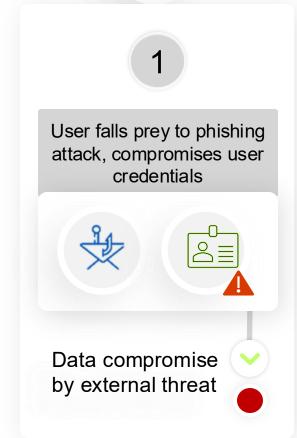
#### Danika Loadholt

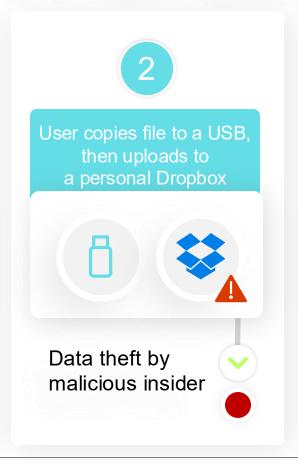
Danika Loadholt is a Principal Group Product Manager at Microsoft, specializing in Data Security and Al. In this role, she leads strategic product initiatives to infuse advanced security and Al capabilities into Microsoft's data platforms.

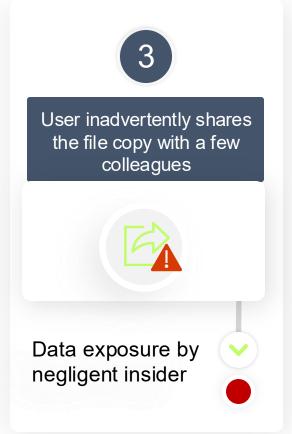
### Know your data to protect your data

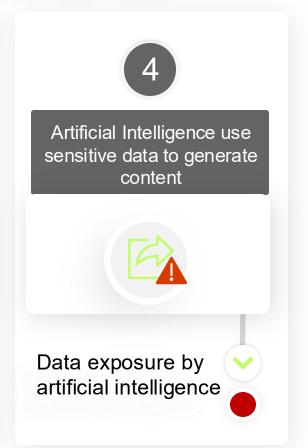


Data at risk of misuse if organization has no visibility into their data estate



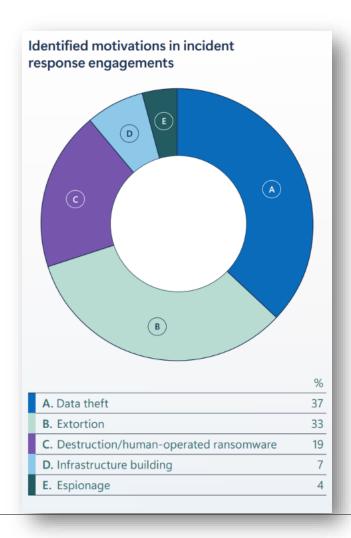








### **The External Threats**



From the Microsoft Digital Defense Report 2025:

The risk of a data breach has never been higher, driven by five converging forces:

- Identity under constant attack
- Data theft as the primary attacker objective
- Al dramatically scaling attacker capability
- Cloud/SaaS misconfigurations creating easy entry points
- Supply-chain and third-party weaknesses expanding the attack surface

### The Insiders Threats

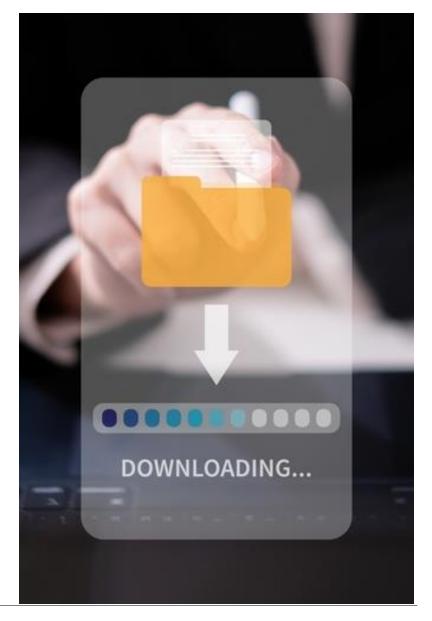
#### From Forrester:

• 22% of data breaches are caused by internal incidents (insider threats).

#### Of these internal incidents:

- 40% are accidental (e.g., policy violations, negligence).
- 47% are malicious (intentional acts like data theft or sabotage).
- 13% involve a mix of both inadvertent misuse and malicious intent.

The real challenge is that many more risky behaviors never escalate to a breach and remain invisible (the hidden risk surface).



### The AI Threats

### Data leak and oversharing

- **80%** of leaders cite sensitive data leakage as their top concern when adopting AI
- 78% of Al users bring unmanaged Al apps (e.g., ChatGPT, Claude) into work environments

### **Vulnerabilities and** emerging threats

- 66% of organizations are building/testing Al apps, leading to new security gaps
- 77% are concerned about threats like indirect prompt injection attacks

### Non-Compliance

- New regulations like EU AI Act and NIST AI RMF are emerging
- 55% of leaders lack a clear understanding of Al regulatory requirements

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First Annual Generative AI study: Business Rewards vs. Security Risks, , Q3 2023, ISMG, N=400

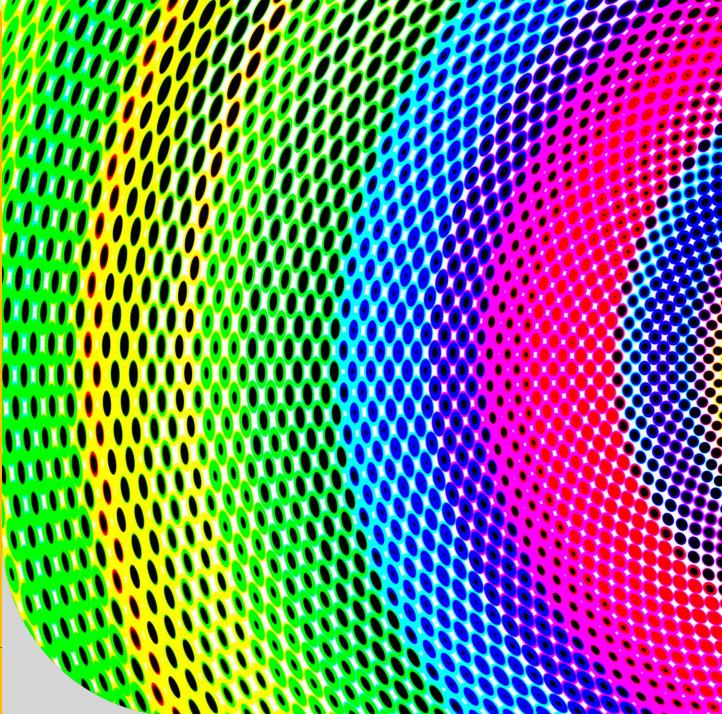
<sup>2024</sup> Work Trend Index Annual Report, Microsoft and LinkedIn, May 2024, N=31,000



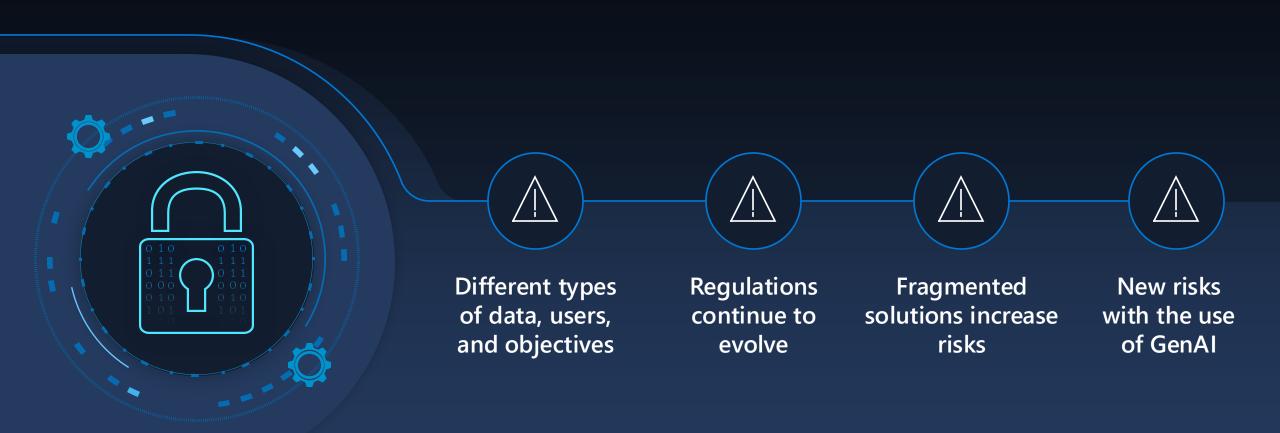


### **MICROSOFT SECURITY**

Danika A. Loadholt **Principal Group Product** Manager Microsoft Purview **Microsoft** 



### Securing data is complex and multi-faceted

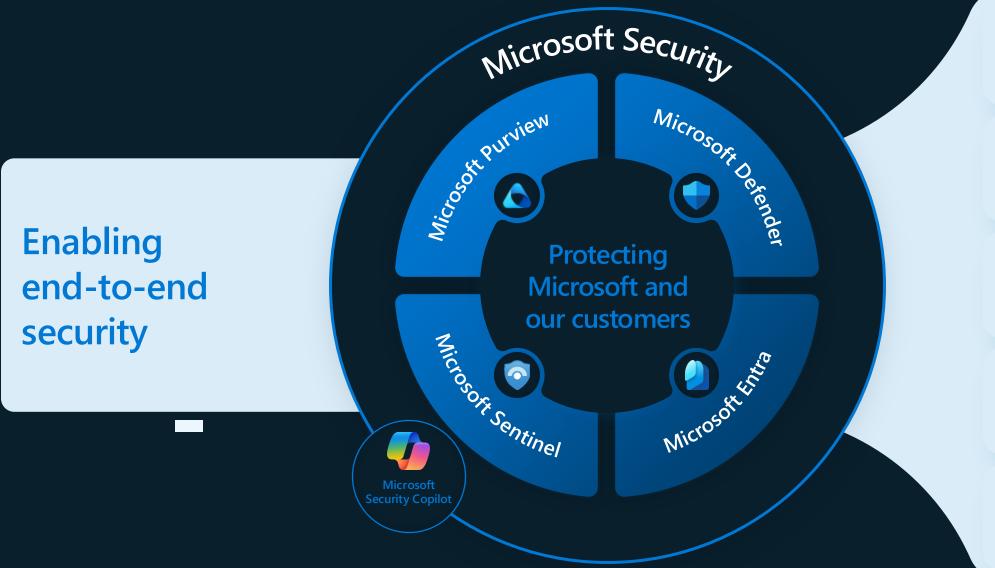


### Securing customers with a Zero Trust approach

Verify explicitly | Use least-privileged access | Assume breach



Zero Trust is a proactive mindset that assumes all activity—even by known users—could be an attempt to breach systems.



8.4M

**Identities Protected** 

1.5M

**Endpoints Protected** 

**720K** 

Share Point Site Protected

225TB

Ingested Weekly

200

Additional detections Against TTPs

Threat Intelligence

Powered by 84 Trillion Signals



### Secure access

Identity and access management across your digital landscape

- Risk-based adaptive policies
- Seamless experience for any user
- Unified identity management and access to any app
- Simpler identity and access lifecycle





### Visibility and control

Govern any identity and any resource with permissions across multi-cloud

- See all identities and resources
- Detect and right-size unused or excessive permissions
- Automate least privilege everywhere



### **Identity verification**

Verify credentials based on decentralized identity standards

- Create trust with verifiable credentials
- Onboard and recover accounts faster
- Secure access to apps
- Gives individuals control of their data





### Threat protection

Stop threats across your entire organization

- Secure all clouds, all platforms
- Get leading integrated protection
- Deliver rapid, intelligent response

## Microsoft Defender + Microsoft Sentinel



### **Cloud security**

Get integrated protection for your multi-cloud resources, apps and data

- Strengthen your security posture
- Defend against evolving threats
- Control access to critical apps and resources
- Build secure apps from the start



## Integrated solutions to secure & govern your entire data estate

#### DATA SECURITY

DATA GOVERNANCE

DATA COMPLIANCE

Secure data across its lifecycle, wherever it lives

Responsibly unlock value creation from data

Manage critical risks and regulatory requirements

Data Loss Prevention
Insider Risk Management
Information Protection

Data Discovery
Data Quality
Data Curation
Data Estate Insights

Compliance Manager eDiscovery and Audit Communication Compliance Data Lifecycle Management Records Management

**Unstructured & Structured data** 

Traditional and Al-generated data

Microsoft 365 and Multi-cloud

Shared platform capabilities

Data Map, Data Classification, Data Labels, Audit, Data Connectors



**Microsoft Purview** 

# Microsoft Purview: Data Security with an integrated approach



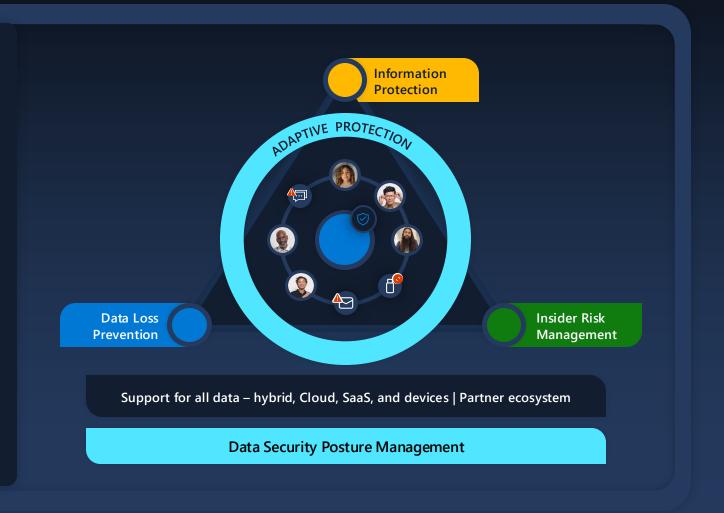
Automatically discover, classify and label sensitive data, and prevent its unauthorized use across apps, services, and devices.



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



Enable **Adaptive Protection** to assign high-risk users to appropriate DLP, Data Lifecycle Management, and Entra Conditional Access policies



### Managing data security posture

#### **Pain Points**

Need of comprehensive view for managing data security posture

Lack of integrated processes and shared understanding across data and user context

Vast data volume and quantity of alerts



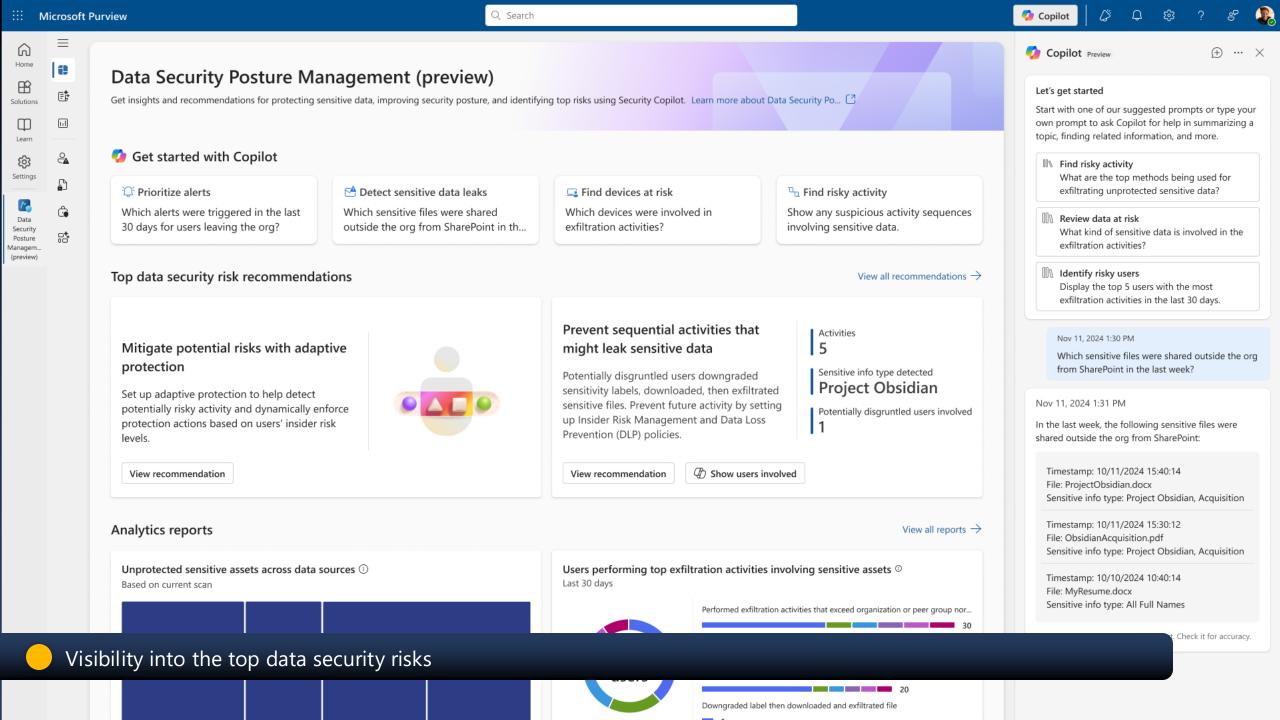
### Microsoft Purview Data Security Posture Management

Provides a consolidated view of the effectiveness of your data security posture and enables the discovery of opportunities to strengthen your data security program

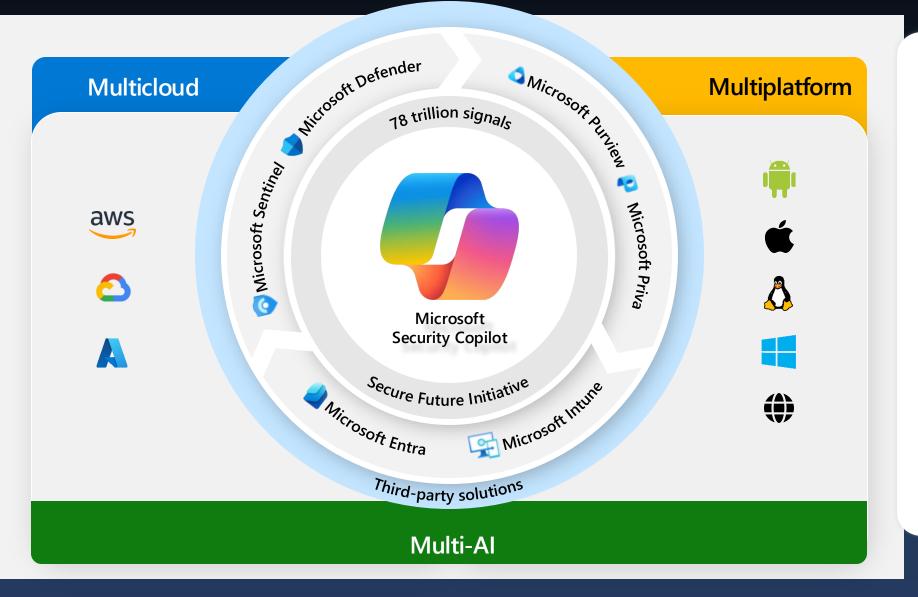
Strengthen data security posture across your data estate with built-in and seamless integration

Analyze and improve actions to protect your data in a centralized solution

Leverage the power of GenAl to uncover hidden data risks in natural language



### Microsoft Security can help you achieve more



Protect comprehensively with unmatched threat intelligence, best-in-breed protection, and generative Al

Lower TCO by integrating 50+ categories and delivering up to 60% cost savings

**Supercharge your talent** by using GenAl to help you defend at machine speed

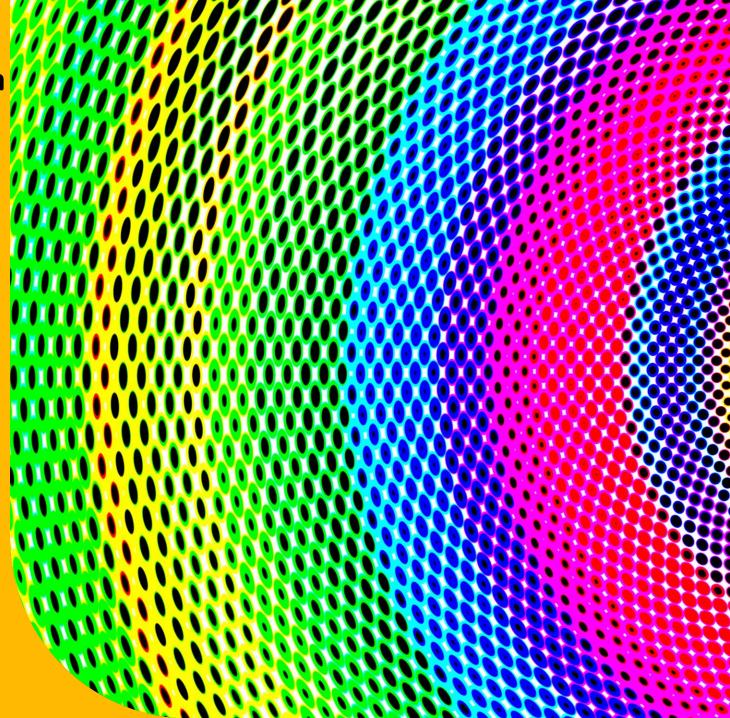
Safeguard your AI future by securing the development and adoption of AI solutions





### **ESTABLISH DATA SECURITY AS A SERVICE**

**VIVEK BHATT - CTO** 



## DATA SECURITY AS A SERVICE IS THE EXECUTIVE THEME FOR 2026



75% of organizations plan to implement Data Security Posture Management (DSPM) in the next 12 months.



83% of security leaders say lack of visibility into data weakens their overall security posture.



87% find their current data discovery & classification solutions need continuous refinement.



93% CISOs now list Al, automation, and data-centric security among their top priorities.

### What is an Operating Model?

An operating model depicts the ways in which an enterprise orchestrates its I&T\* capabilities to achieve its objectives.



More simply, it shows "how things get done."

Every enterprise has an I&T\* operating model, regardless of whether the model is explicitly or implicitly defined.

## Key benefits of a Data Security Target Operating Model

01 02 03



### Consistency

Ensures consistent application of best practices and standards across all data types, improving the quality, accuracy and reliability of data classification.



### Integration

Ensures solution is strategically integrated with the wider operations, enhancing overall efficiency, issue resolution, and incident management.



### **Improvements**

Drives continuous improvement and innovation, ensuring that the data classification solution remains effective and relevant as the technology, regulations and organisation 'ways of working' evolves.

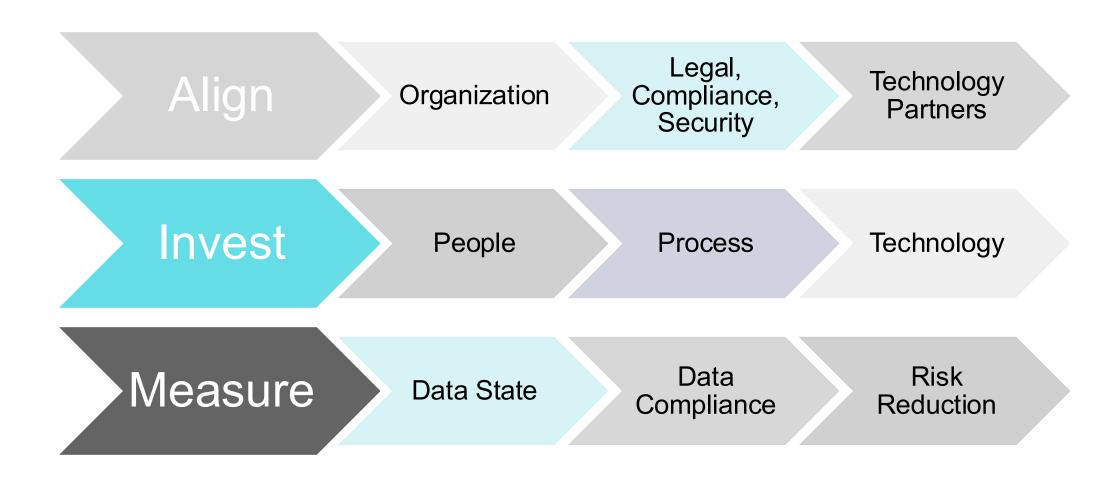


#### **Data Centric**

Shift to a Data centric security informed by Data driven insights is safeguarding digital information from risks including unauthorized access, disclosure, modification or noncompliance both.



### **Data Security TOM Framework**





### Align: Governance Structure

#### **Policy Setting**

- Monitor operating model effectiveness.
- Sets Target for Program (Metrics for Outcomes).
- Sets/Approve Data Compliance Policies, compliance issue management (Workflow, Processes, Lifecycle, Classification, Rules).
- Data Retention and disposition strategy and directive to reduce risk / threat attack surface.
- The governance board also defines the requirements (the classification and protection criteria)

#### Data Ownership

- Responsible
- Accountable
- Final Arbiter
- Classification / Policy outcome decision
- Report issues
- Identify new Data compliance / security risk scenarios

#### **Business:**

Data Stewards/ Owners, Communic

ation and

Champions network

#### **Governance Board**

(Group Legal and Compliance, Enterprise Data Governance and the Information Security Committee)

#### Data Governance

In scope: Classification, Security, Audit.

#### Policy Enforcement Policy Architecture and Design authority.

- Reviews Reporting against KPIs and Metrics.
- Creates value case for investment, improvements and technology roadmap.

### **Operations**

**Operations**:

Data

Classification

Policy

Maintenance,

Helpdesk

Refinements,

**Technical** 

Issue Management

- Knowledge base for service desk
- Policy maintenance. review, refinement.
- Data Security Analytics and Automation
- Skills development



### **Lessons Learned from Customers**



### **Securing Sensitive Data with Microsoft Security solutions**

Implementing a zero-trust security solutions on-prem and cloud to prevent data breaches from outside and inside of the organization, aligned with industry standard and frameworks.



### Al and Agentic Al Governance

'Al ready Data' and controls governing Al access to your data ensuring alignment with EU Al Act



### **Legal and Regulatory Compliance**

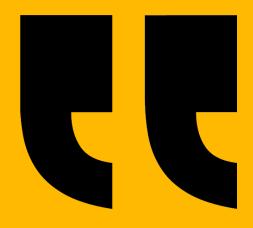
Automated policy enforcement to manage data lifecycle, aligned with legal retention requirements, and organizations information sharing standards.



#### Operationalization of Purview as a Service

Operationalisation of Purview capabilities enabling long term management of security posture, new skills required to manage the emerging AI and data centric threats.







DATA SECURITY AS A SERVICE

### **Security Scenarios as a Service**

Offering security-focused scenarios as a service helps organizations stay ahead of emerging threats and adapt quickly to changes.

### **Target Operating Model**

Defining a clear operating model for data security improves governance, clarifies responsibilities, and supports agile decisionmaking.

### **Scalable and Adaptive Protection**

Scalable, adaptable data protection ensures organizations meet evolving business needs and regulatory requirements efficiently.

## (a) Infotechtion