

Approaches to Managing Insider Risk in a work from anywhere world.

Discover a hub of security excellence and intelligence with Microsoft 365 and insider risk tools.

Intelligent Compliance and Risk Management solutions



Compliance Management

Assess compliance and respond to regulatory requirements.



Information Protection & Governance

Safeguard sensitive data across clouds, apps and endpoints.



Insider Risk Management

Identify and take action on critical insider risks.



Discovery & Response

Quickly investigate and respond with relevant data.



Privacy Management

Safeguard personal data and build a privacy resilient workplace.

How many different types of data risks are out there?

Accidental Sharing

Ransomware

Denial

Fines

Phishing Emails

Overworked Cybersecurity Teams

Employee Data Theft

Bribery

Bad Password Hygiene

Too Much Data Access

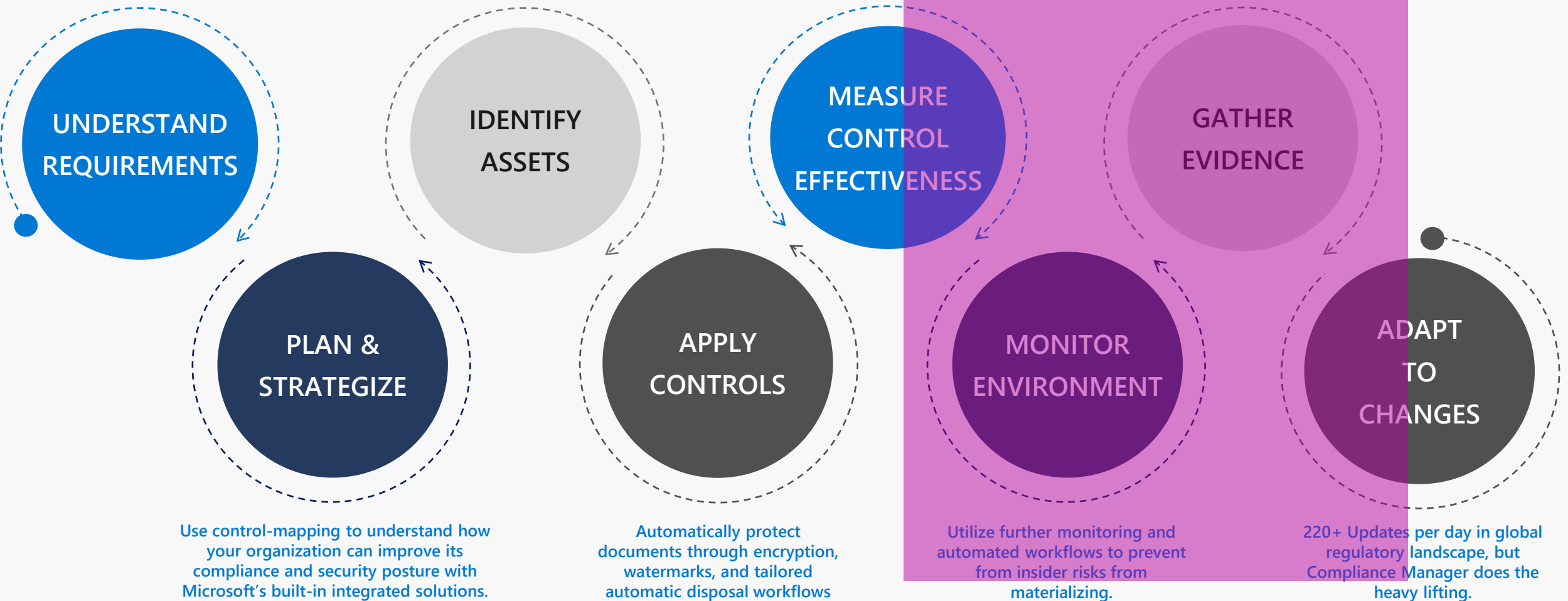
Fraud

Use Compliance Manager to understand and demystify the specific improvement actions required from industry-standards and regulations

Automatically identify information with built-in sensitive information types and trainable classifiers.

Leverage intelligent dashboards and key metrics to ensure your estate is protected.

Quickly and effectively place holds and automate the notifications required for the eDiscovery process.



Powered by an intelligent platform

Unified approach to compliance management, data classification/protection/governance, policy management, insider risk management, and eDiscovery



Information Protection & Governance

Protect and govern data wherever it lives

- Auto classification and Retention
- Supervision for monitoring comms
- Event based triggers for IG
- Label analytics
- Trainable ML classifiers
- Regulatory record



Insider Risk Management

Identify and take action on critical insider risks

- Auto classification and Retention
- Supervision for monitoring comms
- Event based triggers for IG
- Label analytics
- Trainable ML classifiers
- Regulatory record



Discover & Respond

Quickly investigate and respond with relevant data

- Advanced eDiscovery
- Custodian management
- Deep indexing
- Redaction
- Optical character recognition
- Data themes
- Near-duplication



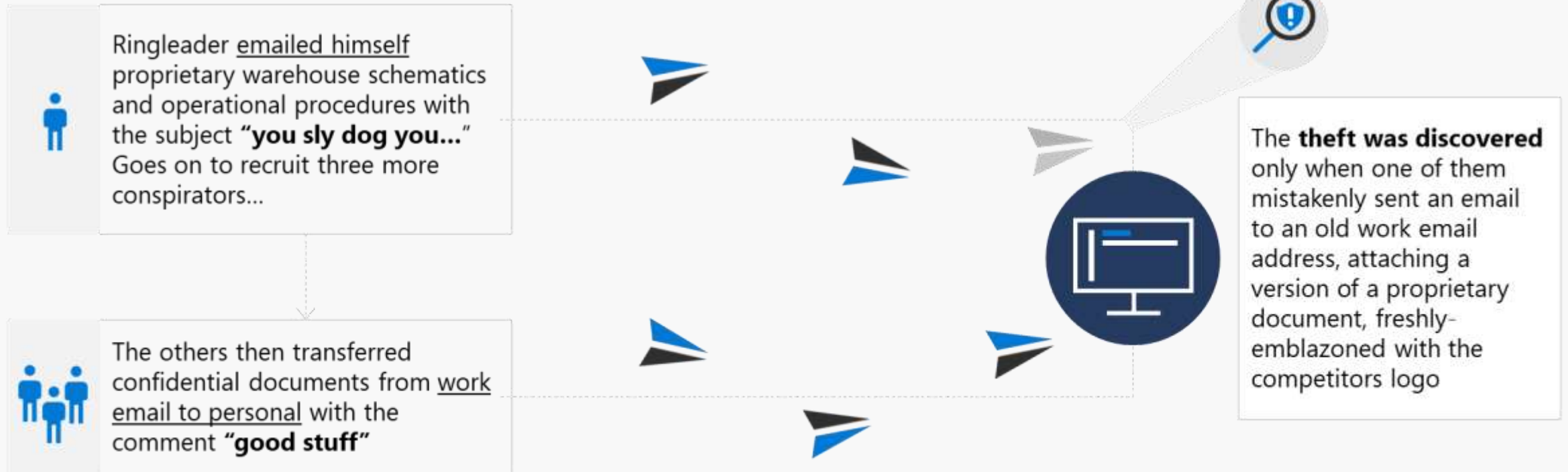
Compliance Management | Simplify compliance and reduce risk

The 'Sly Dog' gang

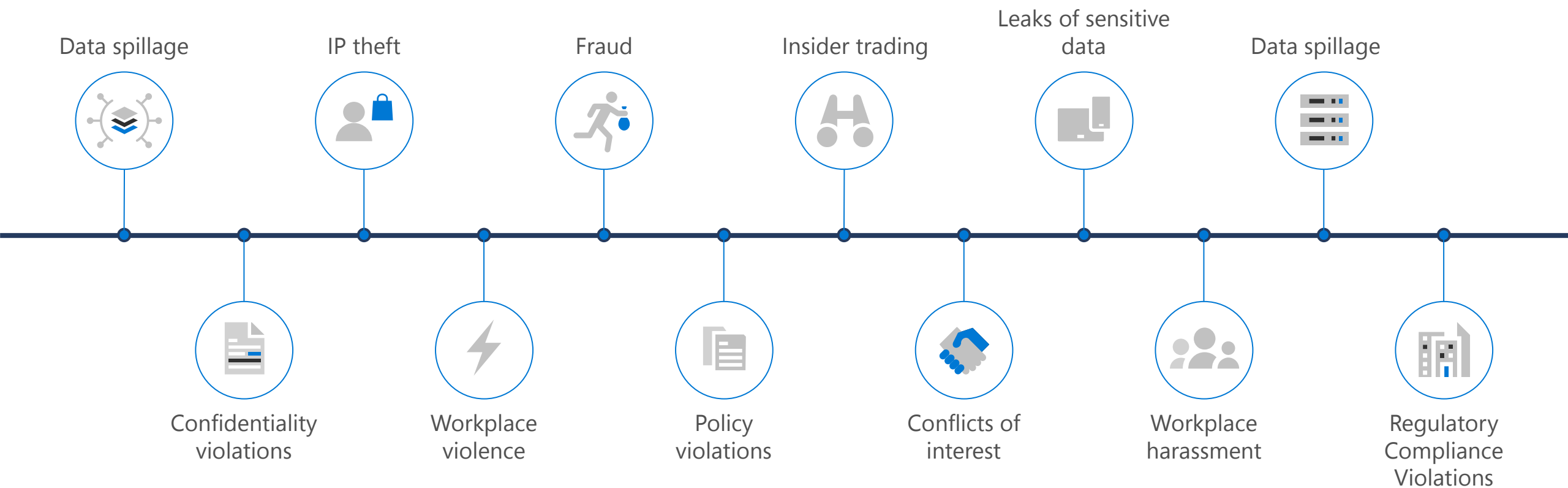
Four employees leave their company with more than just branded sweatshirts



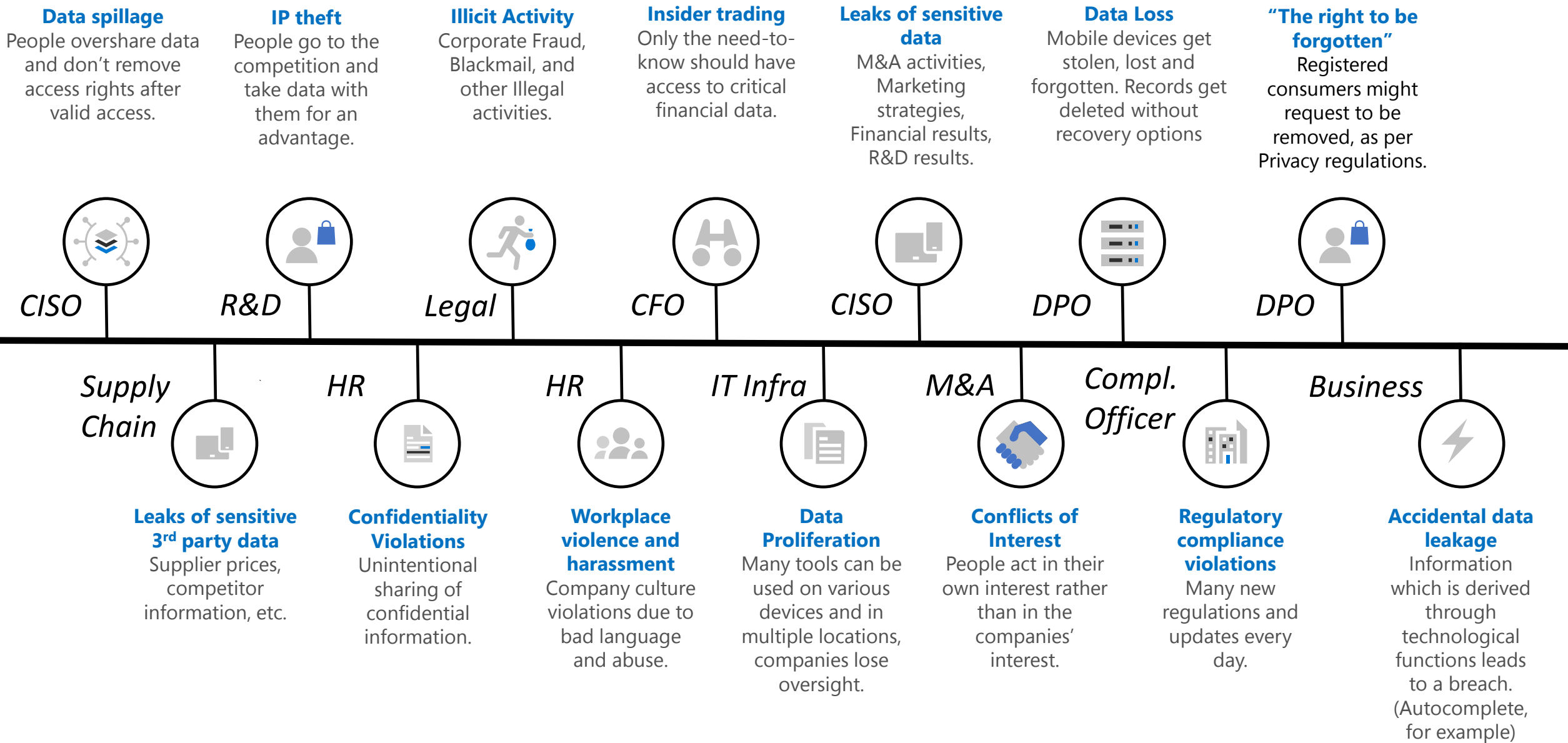
In March of 2019, a large car manufacture with state-of-the-art, proprietary operations and technology filed a lawsuit against four former employees and a competitor for corporate espionage.



Organizations face a broad range of risks from insiders

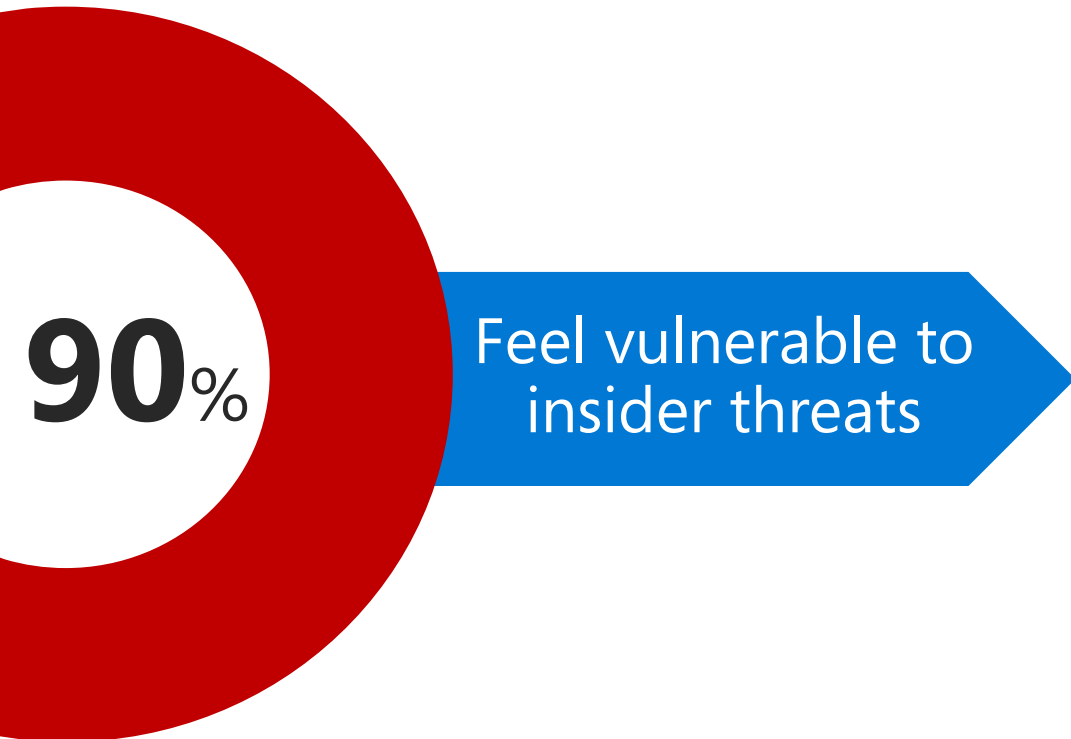


Customers face a broad range of Insider risks

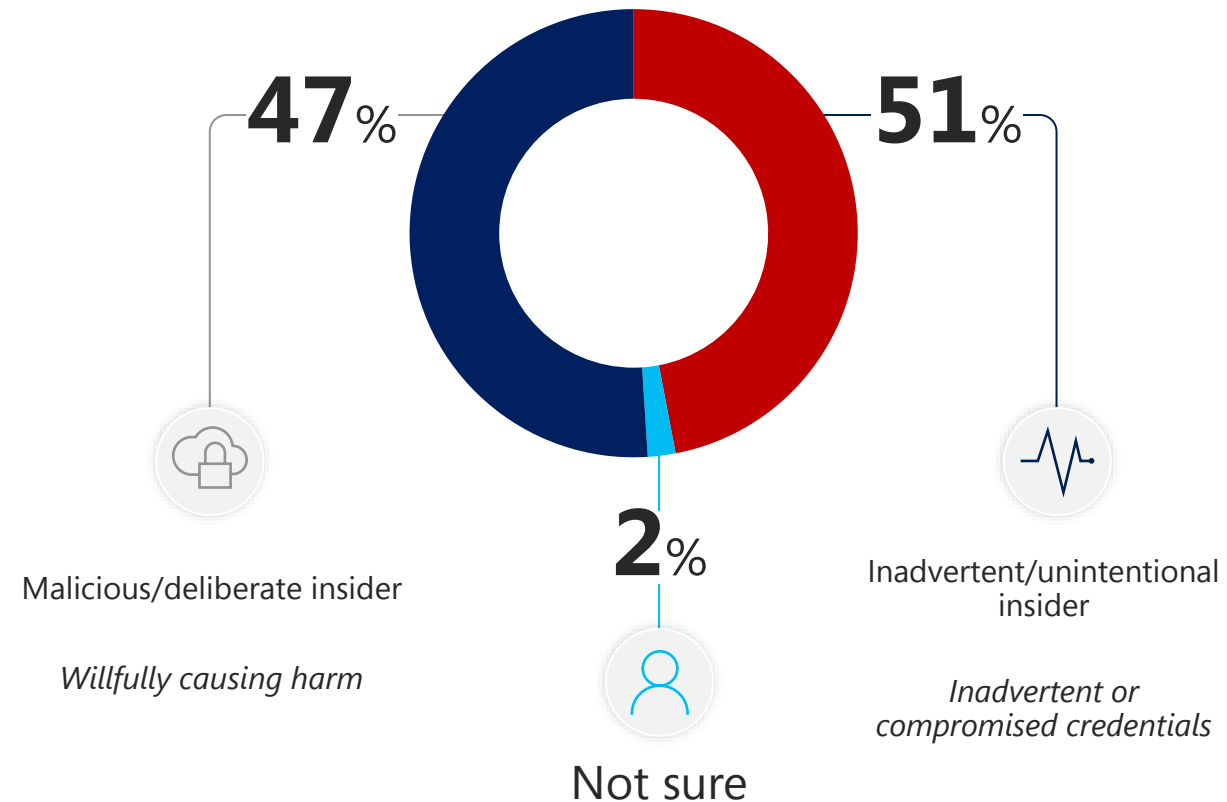


Insider risk is one of your biggest challenges¹

How vulnerable is your organization to insider threats?



What type of insider are you most concerned about?



Question:

Have you ever taken data from a previous company that you believed would help in a new role?

The path leading to a malicious insider risk

Identifying indicators across phases of the critical-path can help to enable higher fidelity detections

Predisposition

51% of employees involved in an insider threat incident had a history of violating IT security policies leading up to the incident [Deloitte Metastudy](#)

Stressor

92% of Insider threat cases were preceded by a negative work event, such as a termination, demotion, or dispute with a supervisor [Carnegie Mellon CERT](#)

Risk



97% of insider threat cases studied by Stanford University involved an employee whose behavior a supervisor had flagged, but the organization failed to follow up on [Deloitte Metastudy](#)

59% of employees who leave an organization voluntarily or involuntarily say they take sensitive data with them [Deloitte Metastudy](#)

Concerning Behavior

Planning & Preparation

The path leading to a malicious insider risk

Identifying indicators across phases of the critical-path can help to enable higher fidelity detections

Predisposition

- Tendency to violate company policies
- Repeat offenders treated differently 1st offense vs. 3rd offense

Stressor

- Resignation
- *Demotion*
- *Poor performance reviews*
- *Performance improvement plans (PIPs)*

Risk



- Unusual amount of files downloaded, printed or *deleted*
- *Unusual amount of file activities in high risk locations/devices*
- An individual being reported as a policy violator through multiple reports

Concerning Behavior

- *Hiding your actions by renaming files or tampering with security controls*
- *Using unapproved apps*
- *Unusual increase in no of error or access denied messages*
- *Mounting USB devices at unusual hours*

Planning & Preparation

A fractured approach for insider risks

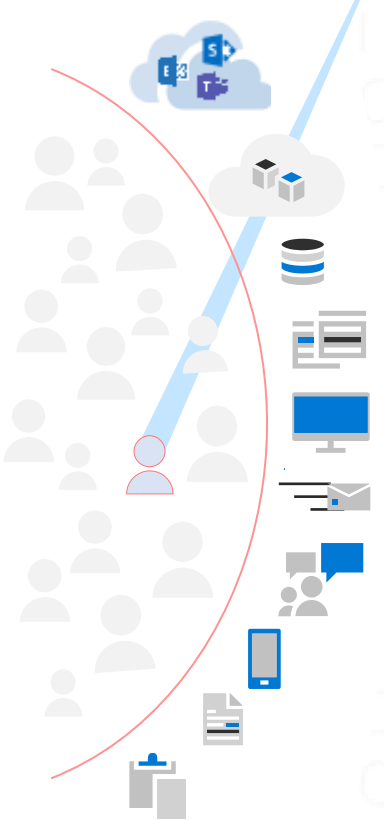


Insider risks are difficult to identify & manage

- Data growing, being accessed and shared across multiple devices and apps
- Visibility into location and movement of sensitive data is poor
- Requires analysis of millions of disparate signals and collaboration (security/HR/legal)



Traditional approaches have limitations



	UEBA (user behavior analytics)	UAM (user activity monitoring)	DLP (data loss prevention)
Complex setup	<ul style="list-style-type: none">• Configuration requires scripting (engineering led or managed services)• COGS burden for storage of signals and compute for analytics• Signal curation requires additional solutions (Firewalls, UAM, DLP, EDR)• Events per second are capped• On-prem server-based model	<ul style="list-style-type: none">• Requires deployment of endpoint agents and on-prem servers• Management of agents is complex• Scale and performance issues with agent-based model	<ul style="list-style-type: none">• Requires deployment of endpoint agents and on-prem servers• Management of agents is complex• Scale and performance issues with agent-based model• Some narrowly focused on email communications
Limited enrichment	<ul style="list-style-type: none">• Low visibility into content• Low sentiment analysis• Low understanding of content sensitivity	<ul style="list-style-type: none">• Low visibility into content• Low sentiment analysis• Limited signal correlation• Low understanding of content sensitivity	<ul style="list-style-type: none">• Low visibility into content• Low sentiment analysis• Limited signal correlation• Prone to high-false positive rate
Narrow workflows	<ul style="list-style-type: none">• No integrated workflow beyond SOC	<ul style="list-style-type: none">• No integrated workflow beyond SOC	<ul style="list-style-type: none">• No integrated workflow beyond SOC

Question:

Who do you believe insider risk is important too?

1. IT dept
2. Legal
3. HR
4. Security team
5. Data protection officer
6. Managers

Answer:

All of them

Compliance is a Cross-Departmental Initiative



Privacy

Though it may not be a defined function in all orgs, privacy typically spearheads the **creation of policy and teaching of privacy best practices** across the org.



Legal

Legal, in partnership with outside counsel, **provide expertise and application on regulations** while simultaneously executing contracts and data sharing agreements.



Information Tech / Security

IT / InfoSec is responsible for **implementing technical solutions dictated by the privacy and compliance teams**. They are tasked with securing and protecting company data.



Risk / Compliance

Compliance, which is **generally a well-established function, especially in regulated orgs**, is tasked with ensuring the solutions and policies in place are sufficient and functional.



HR

HR is not only involved in recruitment, but also measured on **keeping talents in the company**, and connected with the compliance and privacy teams on specific requests like **Data Subject Requests** or **Insider Treat Tracking**.

Insider Risk Management

Analytics provide breadth of risk in your environment

Hidden Risks

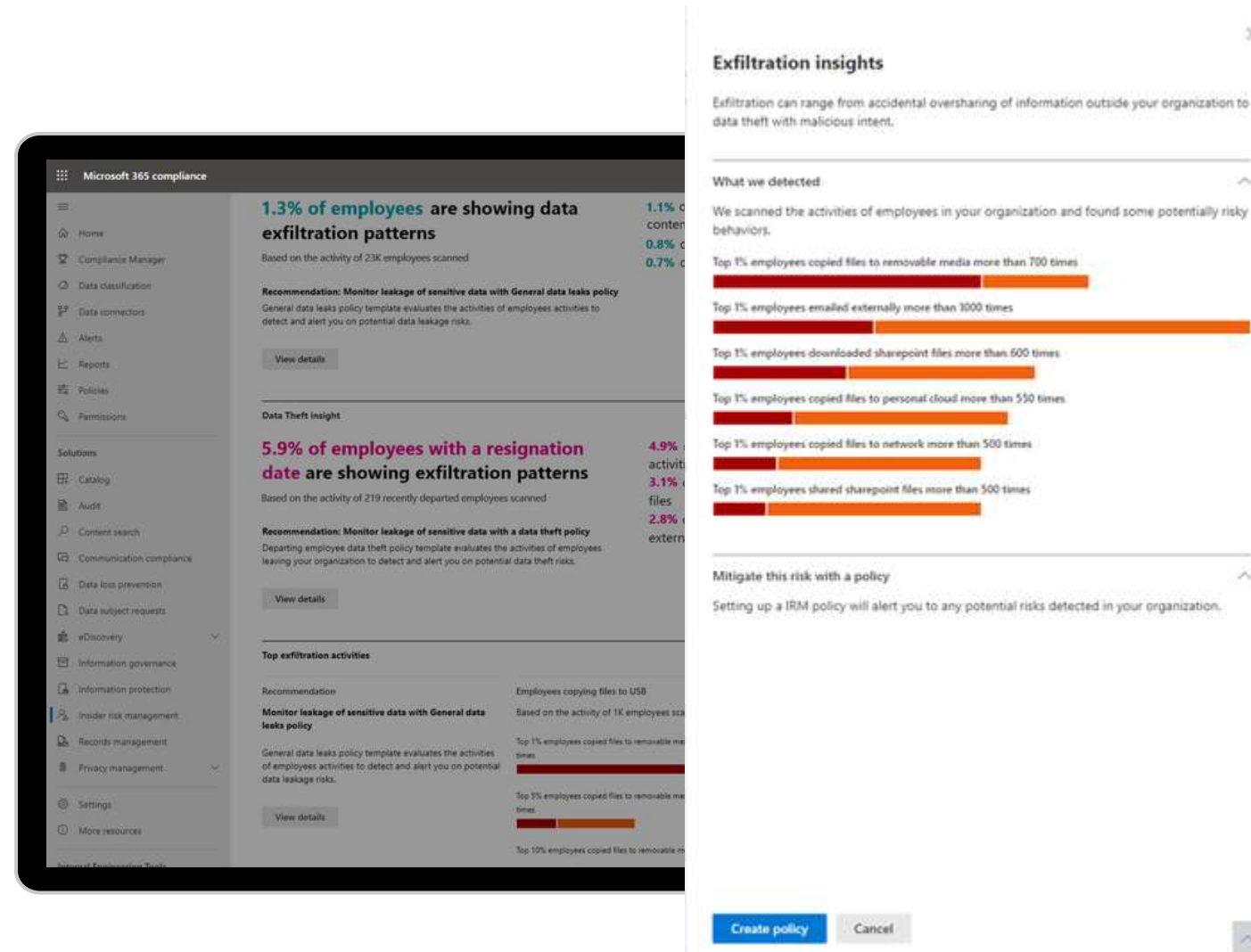
Even before your policies are setup

Aggregated data

Anonymity data across your organisation

Place to start

Determine which polies to setup to start taking action.



Insider Risk Management

An integrated end-to-end approach for insider risks

Hidden Risks

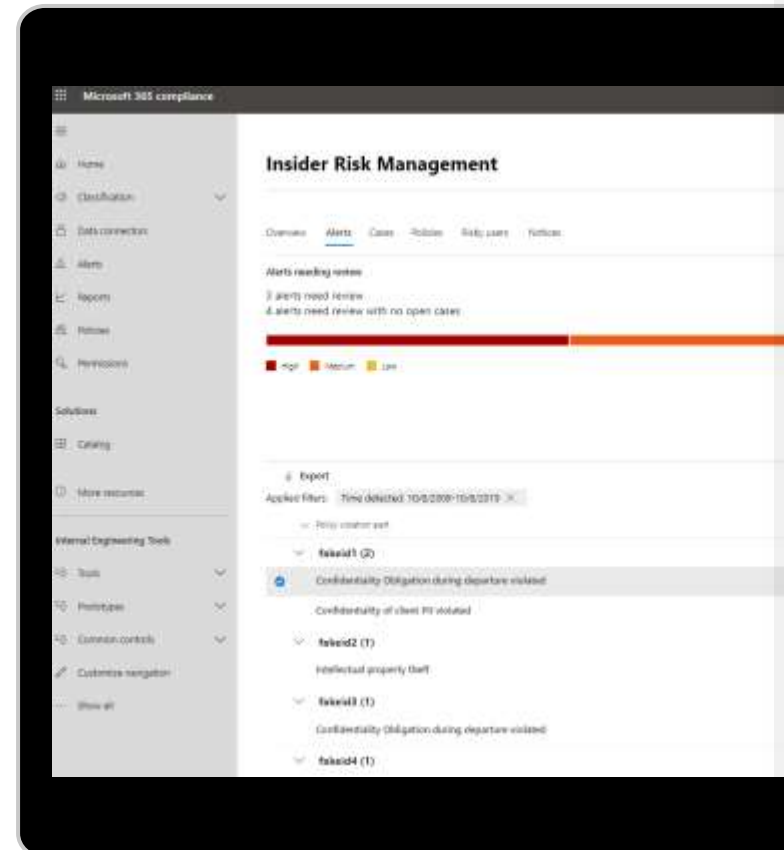
Identify hidden risk patterns with customizable ML templates requiring no end-point agents

Privacy built-in

Anonymity controls ensure data about risks is appropriately managed

End-to-end investigations

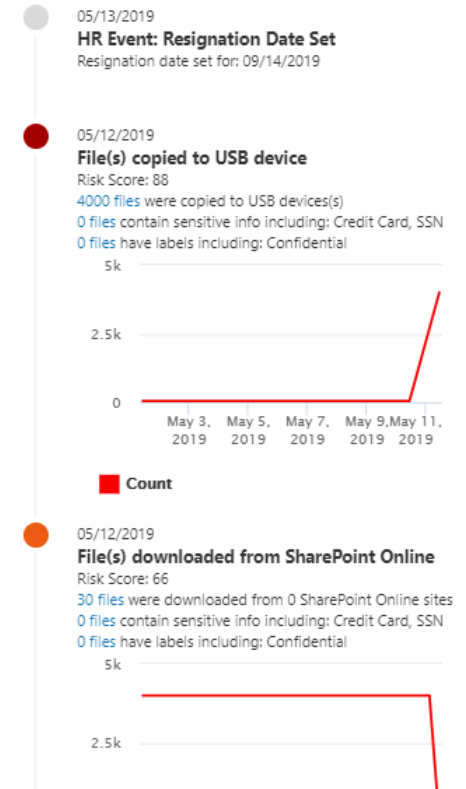
Integrated investigation workflows allow for collaboration across Security, HR and legal



Confidentiality Obligation

Overview User activity User profile

History of recent user activity



Insider Risk Management

An integrated end-to-end approach for insider risks from Microsoft 365

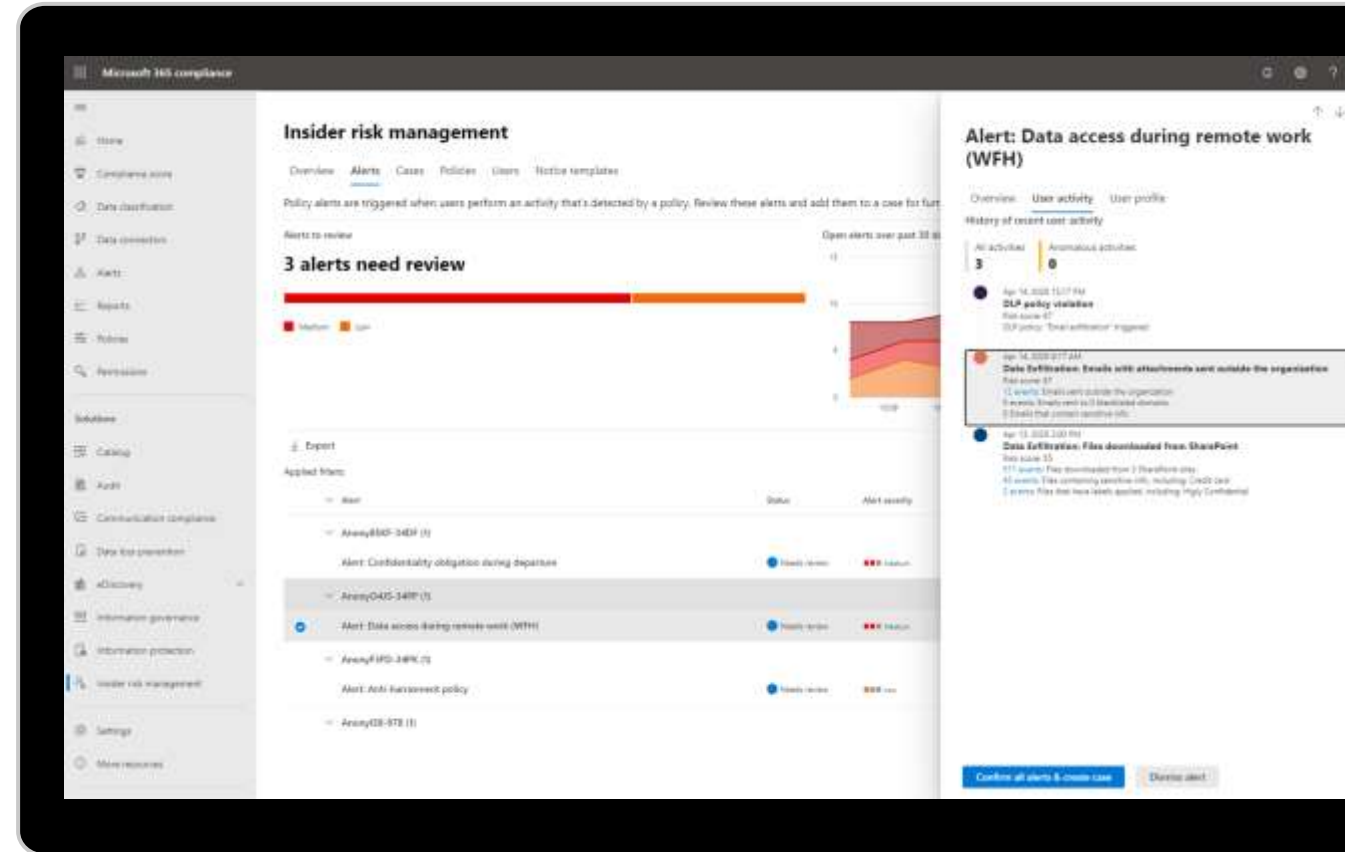
Insider Risk Management +



Data Loss Prevention

Alerts

Leverage DLP alerts to activate Insider Risk Management policies



Insider Risk Management

An integrated end-to-end approach for insider risks from Microsoft 365

Insider Risk Management +

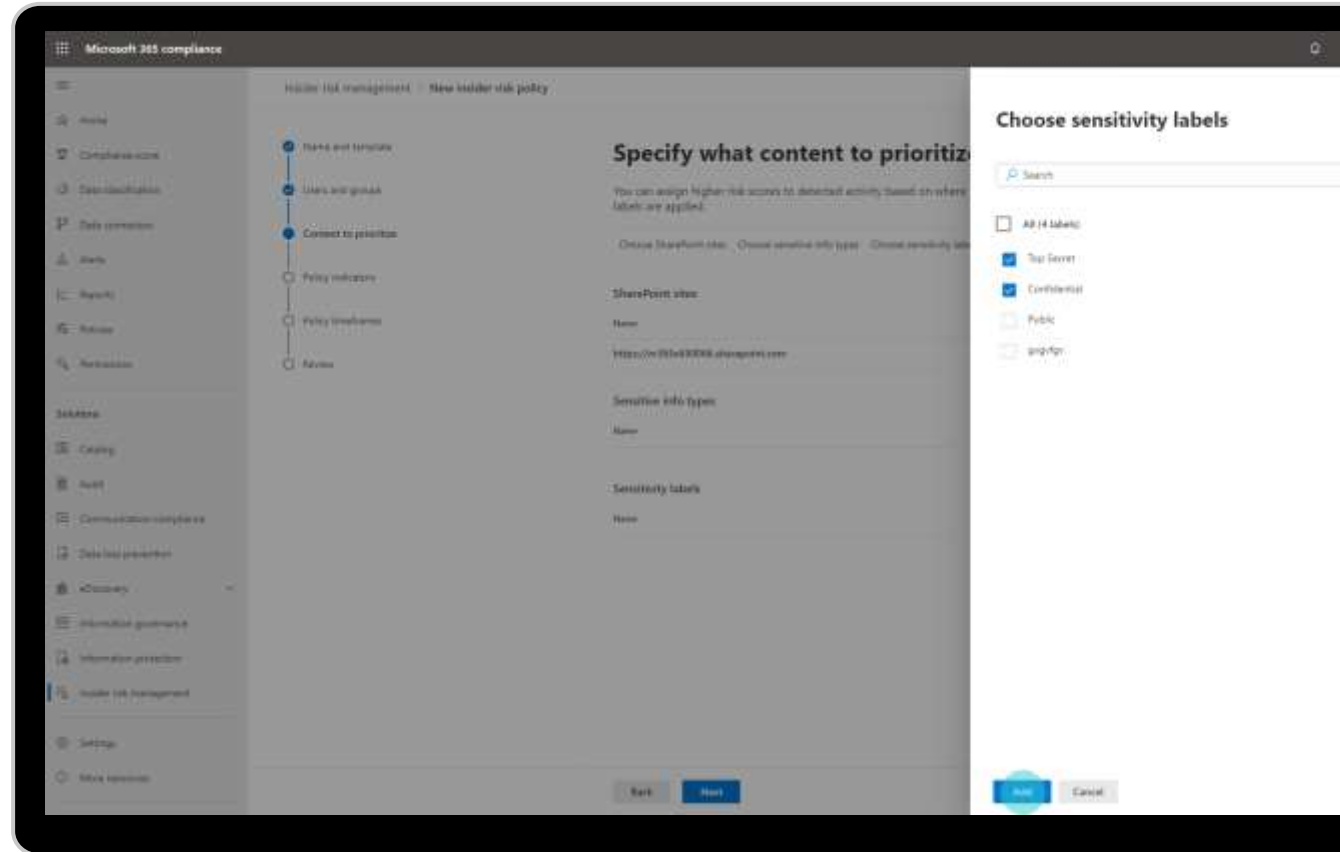


Data Loss Prevention

Information Protection

Enrichment

Understand context with Information Protection labels and built in sensitive data types



An integrated end-to-end approach for insider risks from Microsoft 365

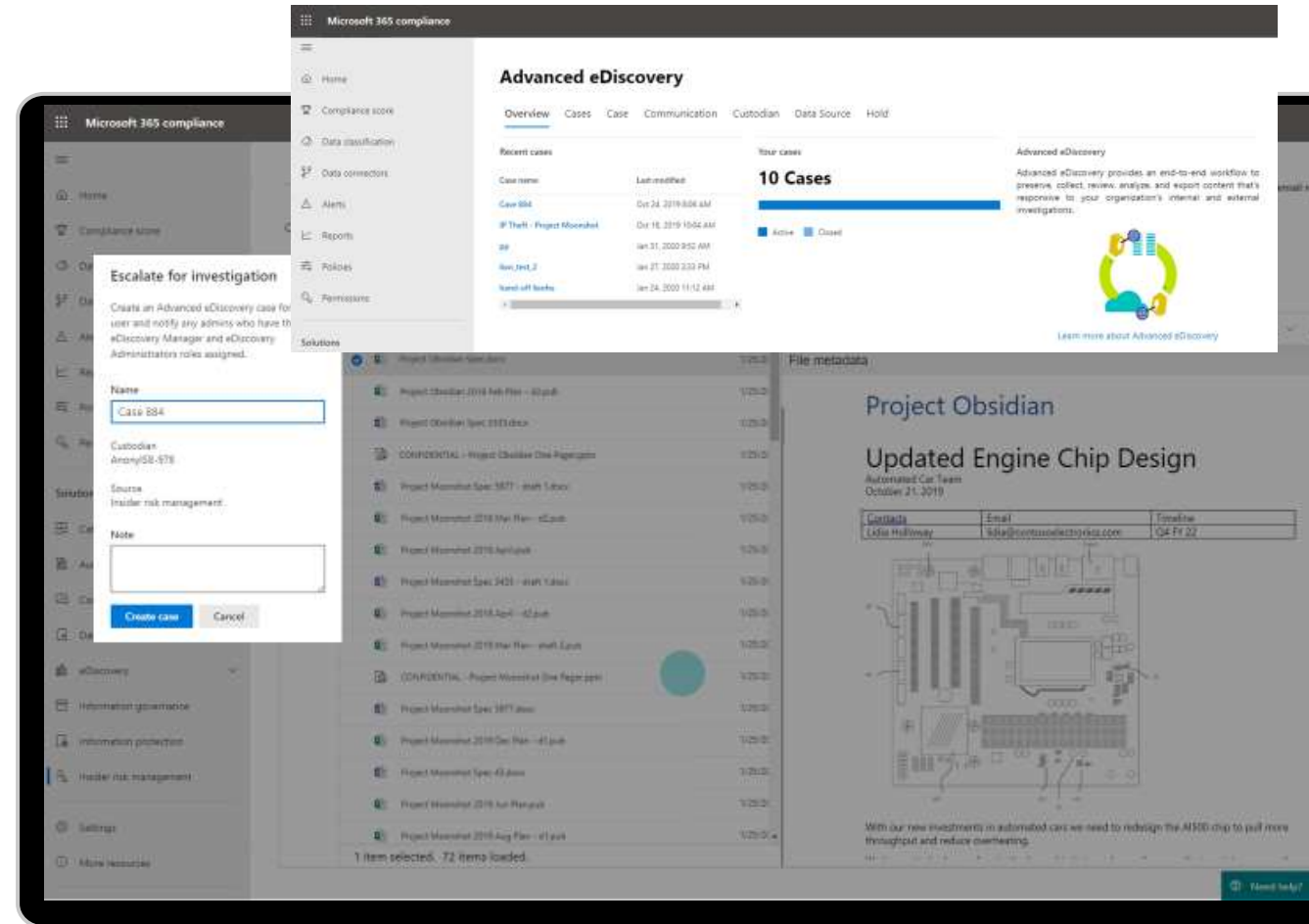
An integrated end-to-end approach for insider risks from Microsoft 365

Information Protection

Advanced eDiscovery

Legal collaboration

Integrated workflows provide seamless investigation handoff



Gold
Microsoft
Partner



Microsoft 365 Compliance Accelerator Workshops

Discover, protect, and govern your corporate data

Discover Sensitive Data Workshop

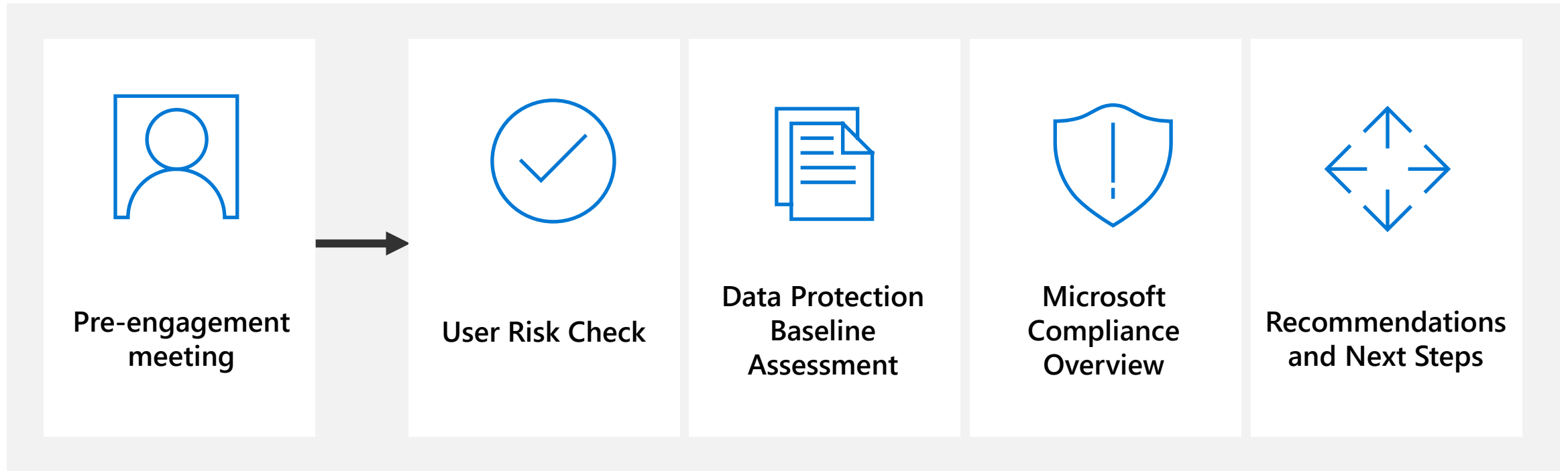
The *Discover Sensitive Data Workshop* provides you with examples of privacy and regulatory risks in the organizational data contained within your own Modern Work environments. This helps you identify compelling ways to remediate the risks through Microsoft 365 E5-associated technologies. Topics include uncovering data risks in your environment and building customer confidence in mitigating risk through data-driven analytics and visualization.

Manage and Investigate Risk Workshop

The *Manage and Investigate Risk Workshop* is designed to provide you with examples of potential data leaks and data theft within your Modern Work environments. Through this workshop, Lighthouse experts help you identify deviations from common corporate policies using Microsoft 365 E5-associated technologies. Topics include uncovering risky user activities, evaluating user communication inside the organization, and understanding how to prioritize and mitigate the identified privacy risks.

<https://info.lighthouseglobal.com/2022-m365-compliance-accelerator-workshops>

The Manage and Investigate Risk Kick Off



Out-of-box sensitive info types



Microsoft 365 includes 200+ sensitive info types

For different countries, industries, or by information type



Sensitive information comes in many forms

Financial data, Personally Identifiable Information (PII)



Examples

- Croatia Personal Identification (OIB) Number
- EU Debit Card Number
- EU Passport Number
- US Drivers License Number
- Social Security Number

^ Sensitive info types

- ☐ **Name**
- ☐ Croatia Personal Identification (OIB) Number
- ☐ Czech Personal Identity Number
- ☐ Denmark Personal Identification Number
- ☐ Drug Enforcement Agency (DEA) Number
- ☐ EU Debit Card Number
- ☐ EU Driver's License Number
- ☐ EU National Identification Number
- ☐ EU Passport Number
- ☐ EU Social Security Number (SSN) or Equivalent ID
- ☐ EU Tax Identification Number (TIN)

Customer-specific sensitive info types



Business intellectual property

Business plans, product designs, confidential projects



Employee or customer information

HR Information, resumés, employment records, salary information



Highly confidential information

Mergers and Acquisition, workforce reduction



Examples

- Employee or customer numbers

<EMP-nnnnn>

<CUST-nnnnnn-NL>

Technology: RegEx

- Specific keywords

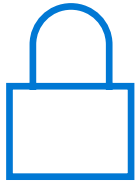
<Project Enigma>

<Highly Confidential>

<Internal only>

Technology: Static Keywords





Module -Insider Risk Discovery

Activity overview

Detect malicious and inadvertent activities in the organization by enabling Insider Risk Management and configuring policies that will define the types of risks to identify and detect.



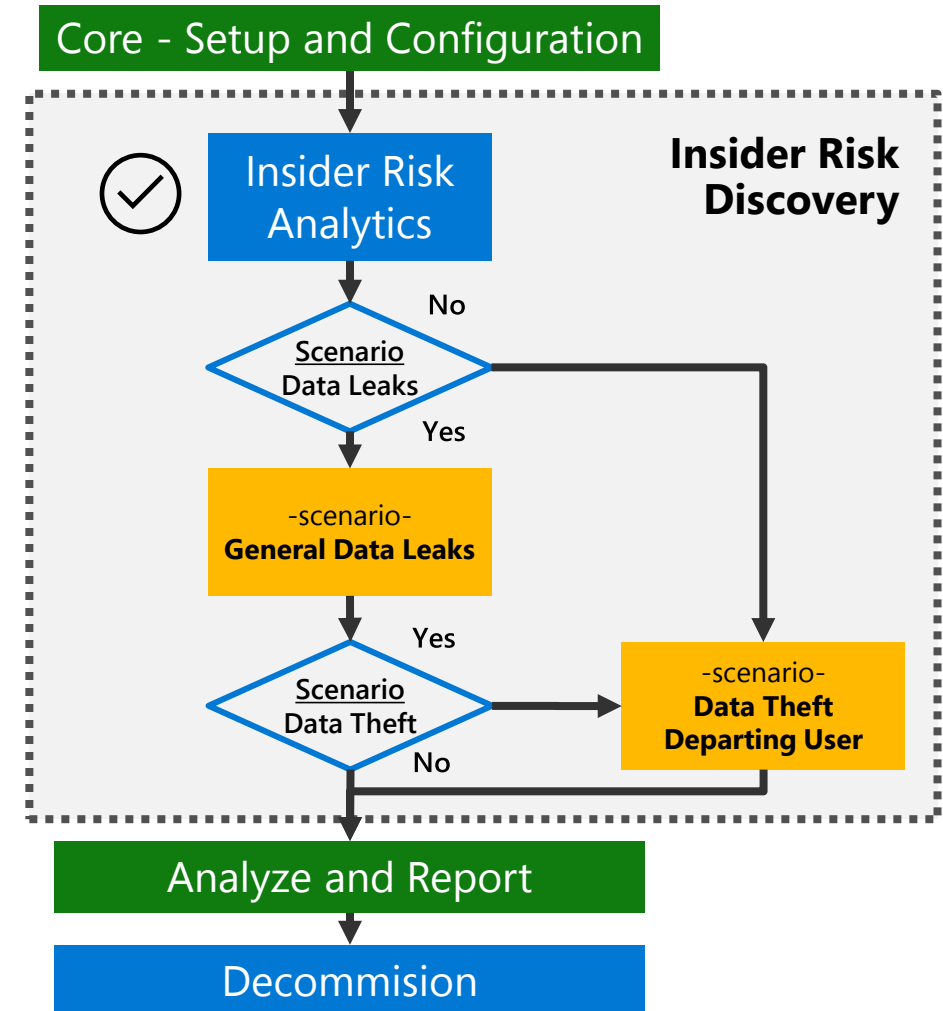
Insider Risk Analytics

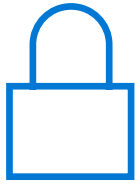
- The first activity for Insider Risk Management



Choose at least one of the additional scenarios:

- General data leaks
- Data theft by departing user





Insider Risk Analytics



Evaluation of potential insider risks

- First activity for Insider Risk Discovery
- Insights based on same signals used by insider risk management
- Works out of the box without configuring policies
- Identify potential areas of high user risk
- Help determine type and scope for policies to consider

Potential data leak activities

10% of your users performed exfiltration activities

Activity from 3 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.

Downloading SharePoint files

Activity from 3 users scanned

Top 1% of users downloaded SharePoint files more than 7303 times

Top 5% of users downloaded SharePoint files more than 7303 times

Top 10% of users downloaded SharePoint files more than 7303 times

Sending email

Activity from 3 users scanned

Top 1% of users sent more than 10 times

Top 5% of users emailed people outside organization more than 10 times

Top 10% of users emailed people outside organization more than 10 times

Copying files to personal cloud storage

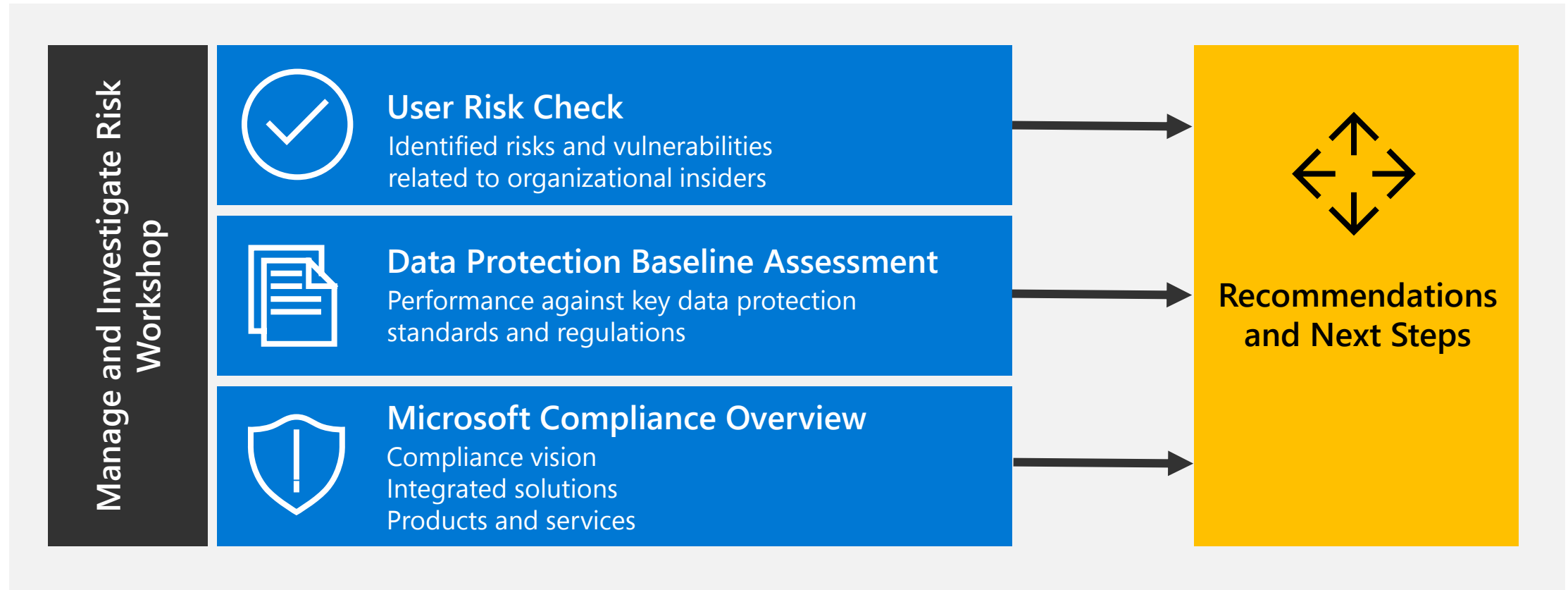
Activity from 4 users scanned

Top 1% of users copied files to personal cloud storage more than 7458 times

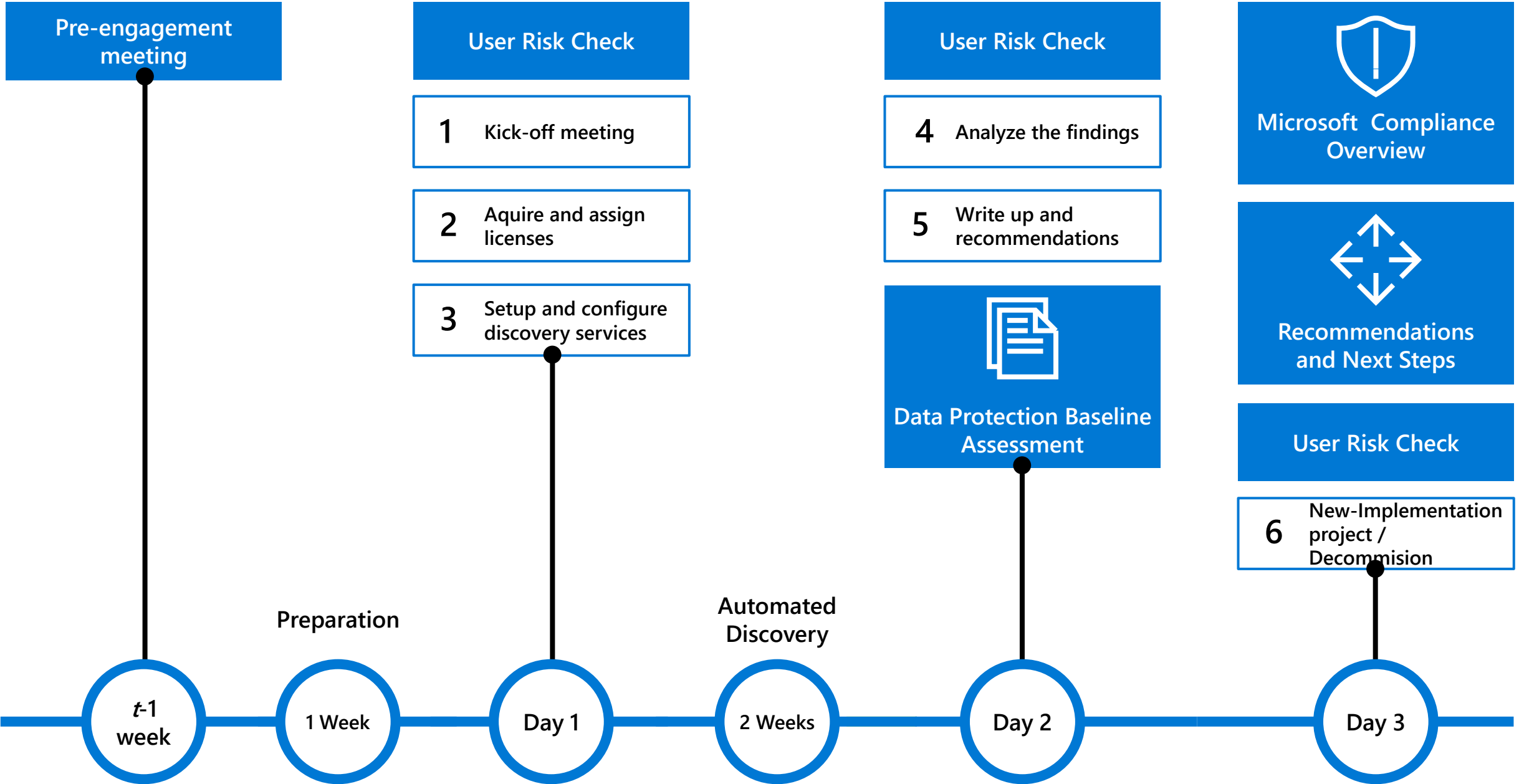
Top 5% of users copied files to personal cloud storage more than 7458 times

Top 10% of users copied files to personal cloud storage more than 7458 times

Recommendations and next steps



Workshop timeline



Tailored policy templates

Departing Employee Data Theft

Theft of intellectual property by a departing employee

- Data Theft – General

Data Leaks

Intentional or unintentional leak or sensitive or confidential information

- Data Leak – General
- Data Leak – Disgruntled
- Data Leak – Priority User Groups

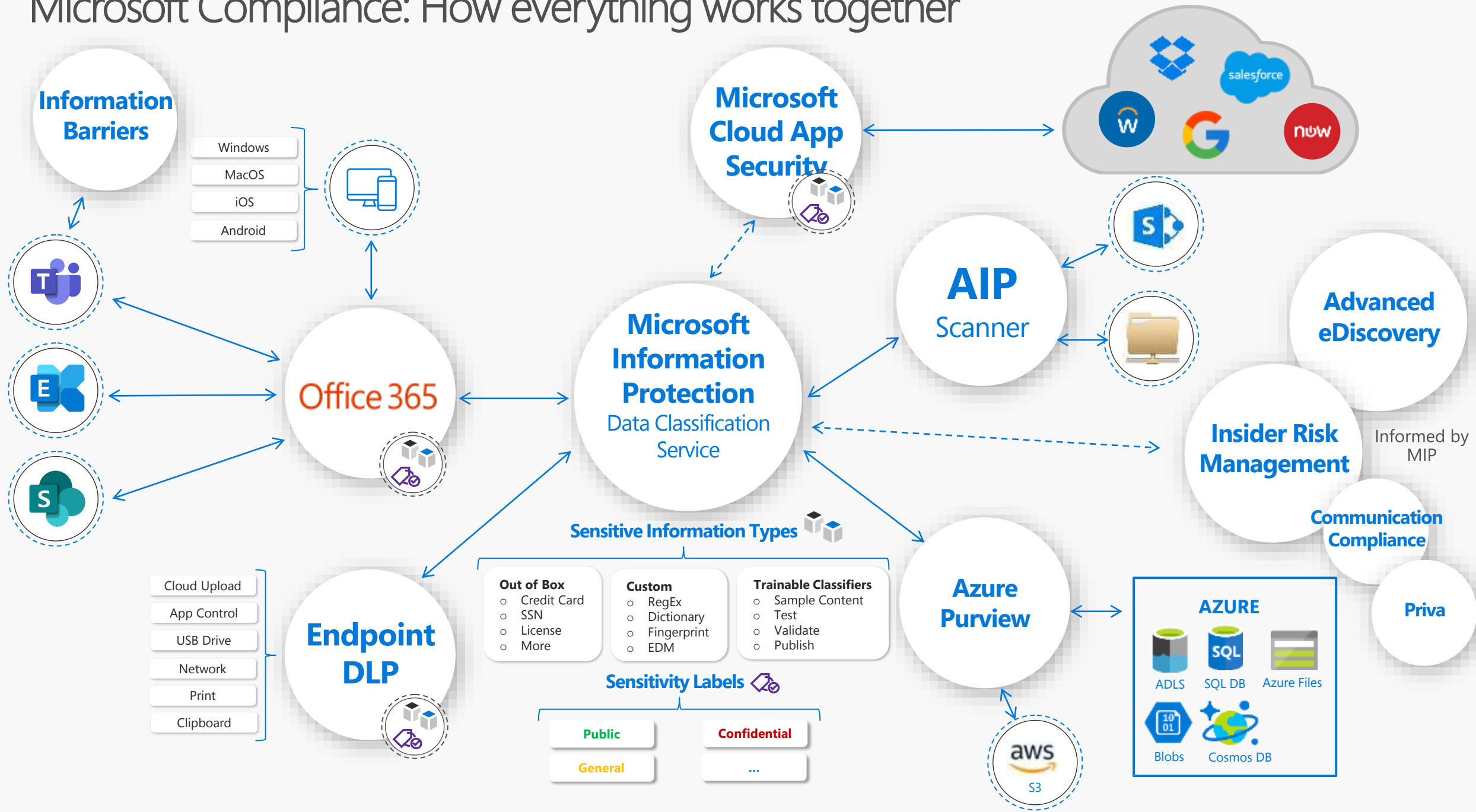
Security Control Violations

Bypassing security controls or violate security policies

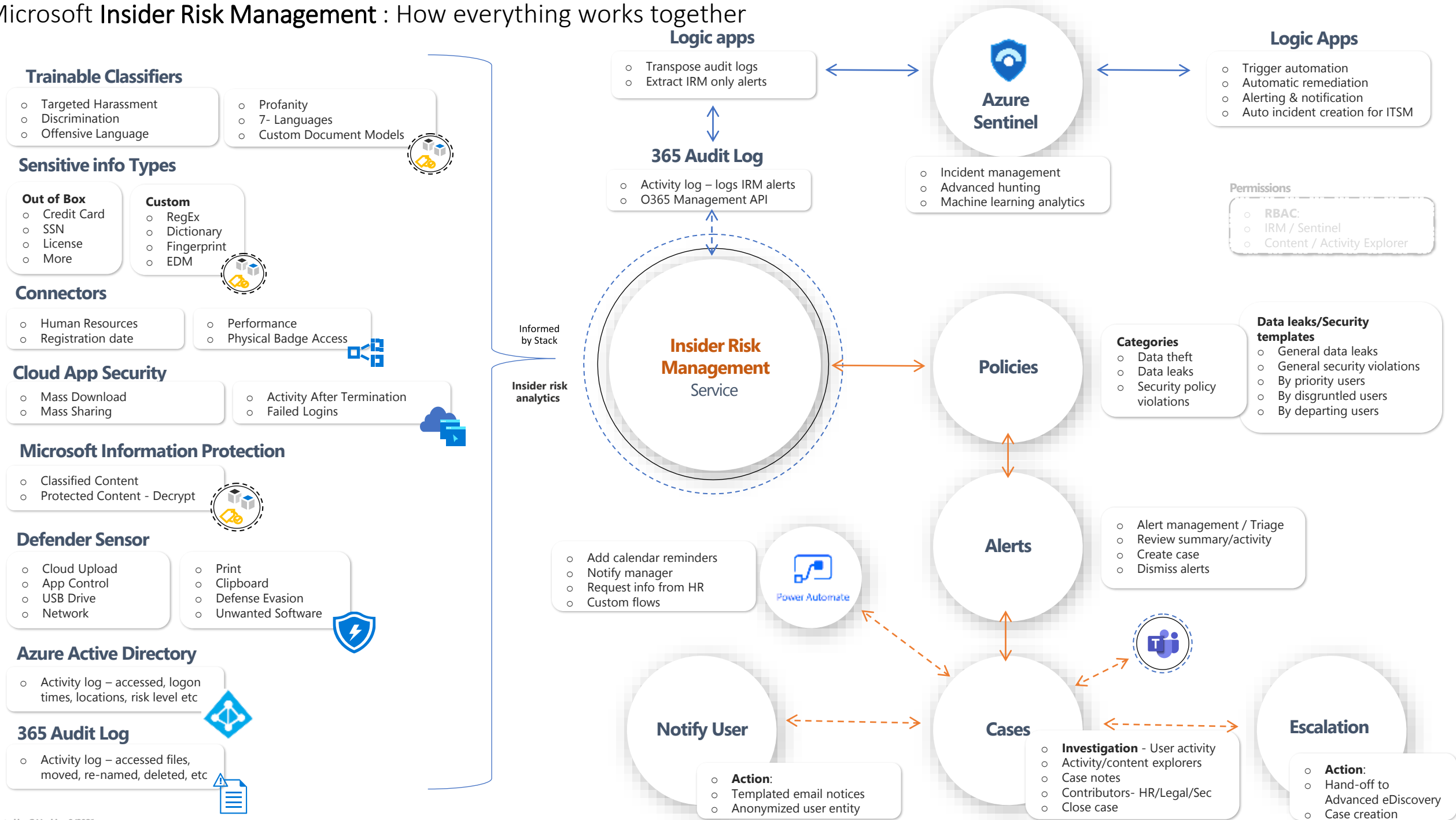
- Security Policy Violation – General
- Security Policy Violation – Priority User Groups
- Security Policy Violation – Departing Employee
- Security Policy Violation – Disgruntled Employee

59% of employees who leave an organization voluntarily or involuntarily say they take sensitive data¹

Microsoft Compliance: How everything works together



Microsoft Insider Risk Management : How everything works together



Does anyone have a risk solution within their organisation?

Microsoft Communication Compliance: How everything works together

1st party communications



Chat / Channel messages / Threading



Email / Threading



Chat / Community messages

Connectors – 3rd party archiving

Microsoft connectors

- o Bloomberg msg
- o ICE chat
- o Instant Bloomberg

Veritas connectors

- o Cisco Jabber
- o WebEx
- o Zoom meetings
- o Slack eDiscovery
- o Symphony
- o +more

TeleMessage connectors

- o Android
- o WhatsApp
- o Signal
- o AT&T network
- o WeChat
- o O2 network
- o +more

Data discovery options

Trainable Classifiers

- o Targeted Harassment
- o Discrimination
- o Offensive Language
- o Image detection – e.g Gory
- o 7- Languages
- o Custom Document Models



Sensitive info Types

Out of Box

- o Credit Card
- o SSN
- o License
- o More

Custom

- o RegEx
- o Dictionary
- o Fingerprint
- o EDM



Microsoft Information Protection

- o Classified Content
- o Protected Content - Decrypt



Data collected

Communication
Compliance
Service

Permissions

- o RBAC:
- o Content / Activity Explorer

Policies

Policy Templates – Monitor:

- o Offensive language
- o Sensitive information
- o Regulatory compliance
- o Conflict of interest – between groups

Custom Policies: Examples:

- o Monitor subset or all users
- o Reviews/Supervisors
- o Comms channel selection
- o Direction of comms

Conditions: Examples:

- o Data classifiers
- o Sensitive info types
- o Keywords
- o Classification labels
- o Optical character recognition

Trainable Classifiers: additions

- o Adult images
- o Racy images
- o Gory images

Escalation for review
e.g. Legal / HR



Alerts

- o Summary information
- o Pending items (to be reviewed)
- o Resolved items (reviewed)

- o Alert management / Triage
- o Review items / history
- o Resolve items
- o Content explorer / threaded items
- o Annotate /redact / translation
- o Tag – Compliant/Questionable
- o Report false-positive (ML)
- o Remove message from Teams



Examples:

- o Add calendar reminders
- o Notify manager
- o Request info from HR
- o Custom flows

Notify User

- o **Action:**
- o Templated email notices
- o Anonymized user entity

Escalation for
investigation

- o **Action:**
- o Hand-off to Advanced eDiscovery
- o Case creation

Reports

- o **Review:**
- o Policy matches
- o Items per policy
- o Detailed reports e.g. User

DEMO TIME

Getting started

Start using Insider Risk Management today

<http://aka.ms/insiderriskmanagement>



Interactive guide on Insider Risk Management

<https://insider-risk-management.azureedge.net/>



Watch the latest shows on YouTube

<http://aka.ms/Insiderriskoverview>



Compliance Manager/Score

<https://youtu.be/ZFlrXaGvWVs>

E5 Compliance gets more value

New categories, new features in existing categories*

2019	2020 Spring	2020 Summer	2020 Fall
<ul style="list-style-type: none">• Microsoft Information Protection (MIP)• Customer Key• Privileged Access Management• Customer Lockbox• Information Governance (IG)• Advanced eDiscovery (AeD)	<ul style="list-style-type: none">• Microsoft Information Protection• Customer Key• Privileged Access Management• Customer Lockbox• Information Governance• Advanced eDiscovery• Advanced Audit• Insider Risk Management• Communication Compliance• Records Management (RM)• Sensitivity labels in SPO, EXO, OneDrive (preview)• AeD: Teams private channels	<ul style="list-style-type: none">• Microsoft Information Protection• Customer Key• Privileged Access Management• Customer Lockbox• Information Governance• Advanced eDiscovery• MIP: Endpoint DLP (Preview)• MIP: Content Explorer/Activity Explorer• MIP: Exact Data Match• MIP: Sensitivity labels in Teams, groups, and SPO sites• MIP: Auto classify with sensitivity labels• AeD: Yammer• Advanced Audit• Insider Risk Management• Communication Compliance• Records Management• Sensitivity labels in SPO, EXO, OneDrive (preview)• AeD: Teams private channels	<ul style="list-style-type: none">• Compliance Manager• Double Key Encryption• IG: Trainable classifiers/feedback loop (preview)• 25+ pre-built data connectors (1st and 3rd party)• RM: Regulatory record label (preview)• IG: Support for Teams meeting recordings (preview)• IG and RM: SharePoint Syntex integration• Insider Risk Management:<ul style="list-style-type: none">• Integration with Teams, Power Automate, and ServiceNow• New policy templates and enhanced customization• Increase in signals• Push alerts to Management Activity API• Physical badge connector, User360• Graph API for Teams DLP, AeD & Teams Export (preview)• Advanced Audit: user search, mail sent events• MIP: Endpoint DLP• MIP: Content Explorer/Activity Explorer• MIP: Exact Data Match• MIP: Sensitivity labels in Teams, groups, and SPO sites• MIP: Auto classify with sensitivity labels• Advanced eDiscovery: Yammer• Advanced Audit• Insider Risk Management• Communication Compliance• Records Management• Sensitivity labels in SPO, EXO, OneDrive (preview)• AeD: Teams private channels

*Not comprehensive; for full list go to service descriptions: <https://aka.ms/servicedescriptions>

Microsoft 365 E5 Compliance

Microsoft 365 E5 Compliance

M365 E5 Info Protection & Governance

Microsoft Information Protection

- Sensitivity labels
- Trainable classifiers
- Double key encryption
- MCAS
- Data loss prevention (Office, Teams and Endpoint)

Microsoft Information Governance

- Retention policies and labels
- Records management

Pre-req: Any M365 plan or [any Office 365 plan² + Azure Info Protection Plan 1/EMS³]

M365 E5 Insider Risk Management

Insider Risk Management

Communication Compliance

Information Barriers

Customer Lockbox

Privileged Access Management

Pre-req: Any M365 or Office 365 plan²

M365 E5 eDiscovery and Audit

Advanced Audit

Advanced eDiscovery

Pre-req: Any M365 or Office 365 plan²

Microsoft 365 E5 Compliance Add-Ons

Data Connectors

- Enable third party data archiving
- Leverage premium services across on your third-party data

Pre-req: Any M365 E5 plan
or any Office 365 E5 plan

Premium Assessments for Compliance Manager

- Purchase one of 150+ out-of-the-box assessments that are kept up-to-date

Pre-req: Any M365 E5 plan
or any Office 365 E5 plan

10-Year Audit Log Retention

- Retain audit logs for up to 10 years

Pre-req: M365 E5, M365 E5 Compliance, M365
E5 eDiscovery & Audit or Office 365 E5 plan