

Ein neuer Ansatz zur Erkennung von Insiderrisken und Verhinderung von Datenabfluss

Bernd Vellguth

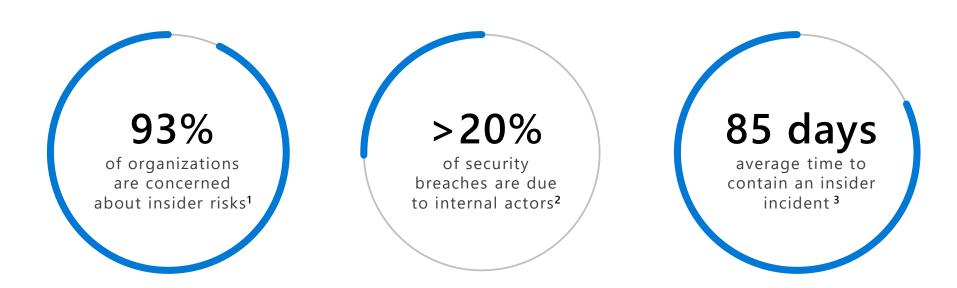
Technical Specialist Microsoft

berndv@microsoft.com

+49-89-3176-3893



Insider risks are a universal and growing concern



\$15.4 million

total average annual cost of activities to resolve insider threats³

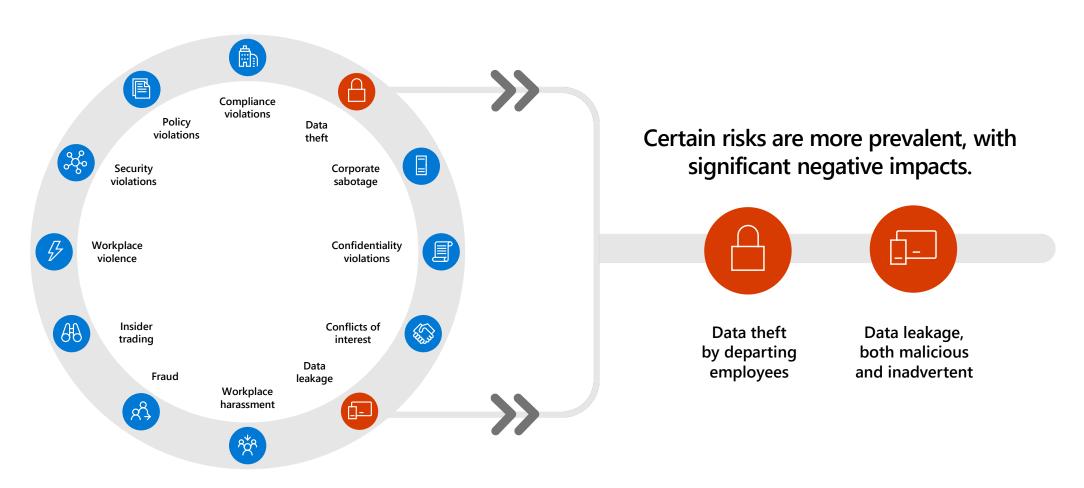
Sources:

1. Insider Risk Management, Microsoft Market Research, January 2021.

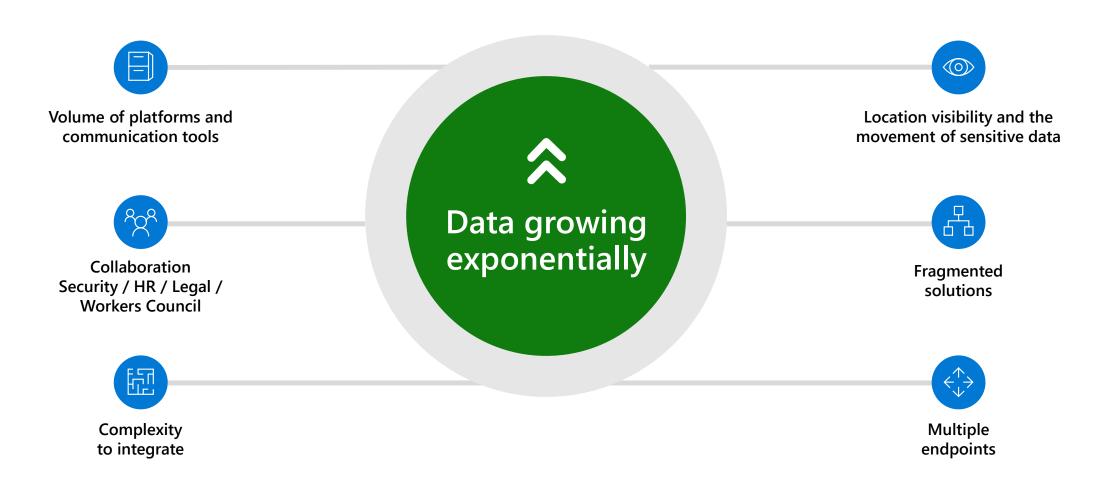
2. Verizon 2021 Data Breach Investigations Report

3. 2022 Cost of Insider Threats: Global Report, The Ponemon Institute

Organizations face a broad range of risks from insiders



Insider risks can be difficult to identify and manage



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.



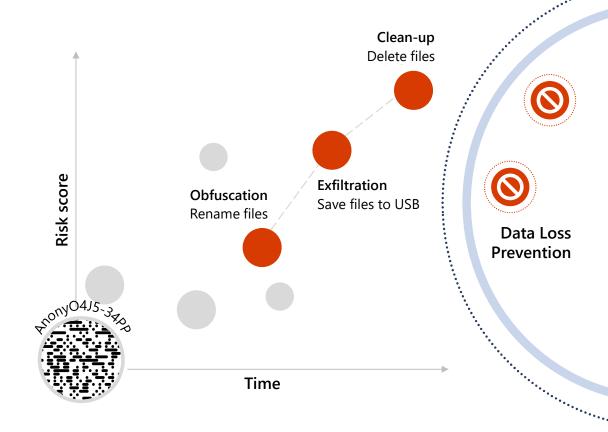
Simplicity

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



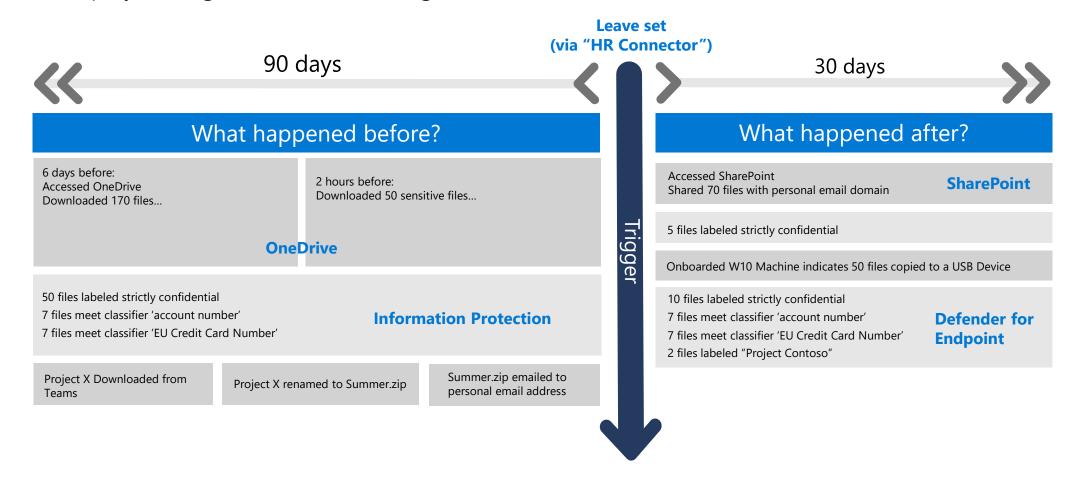
Acceleration

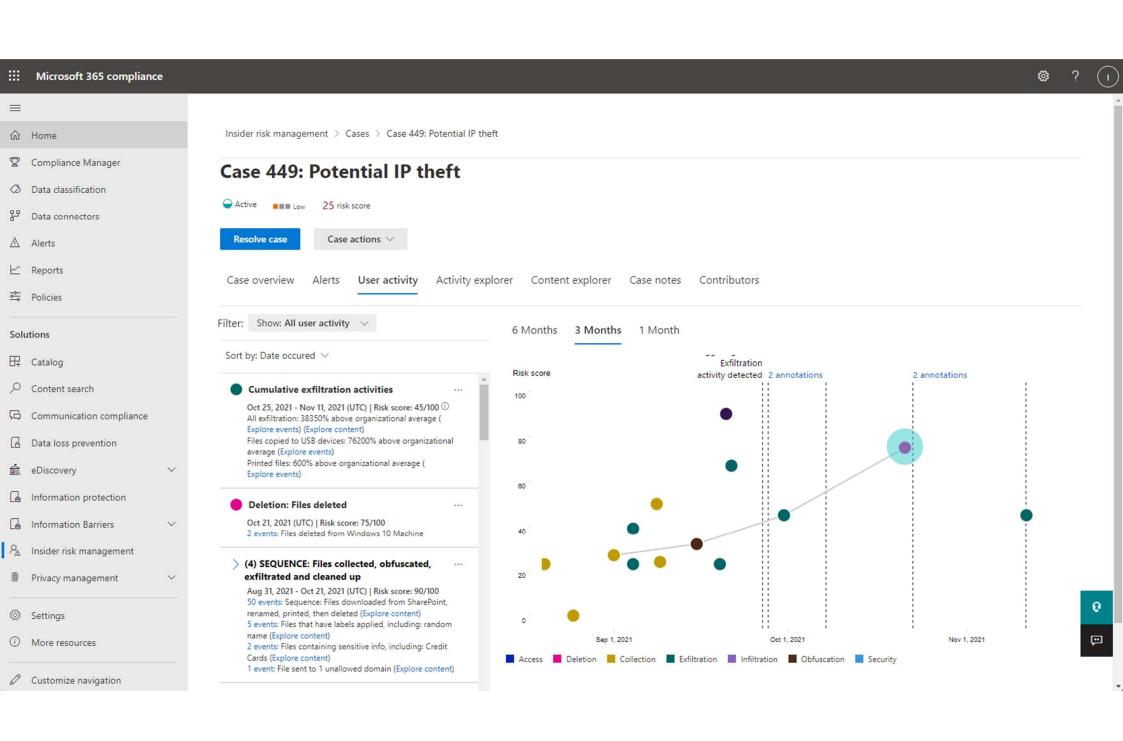
Expedite mitigation with enriched investigations and Adaptive Protection that enforce DLP controls dynamically.

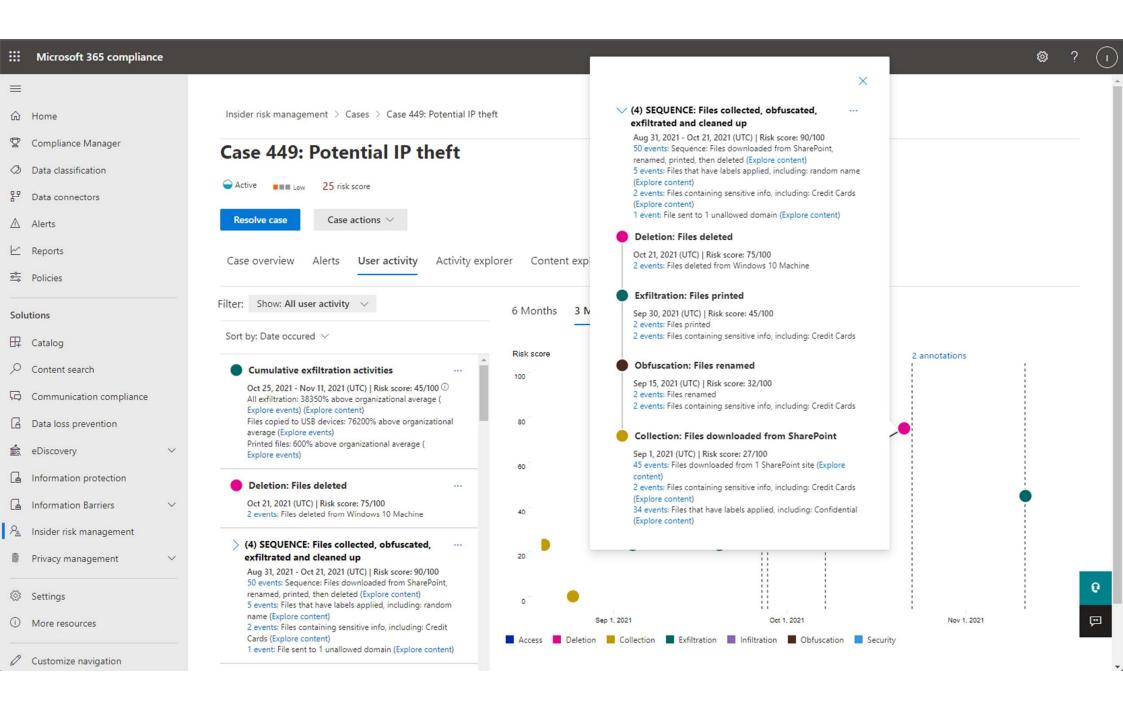


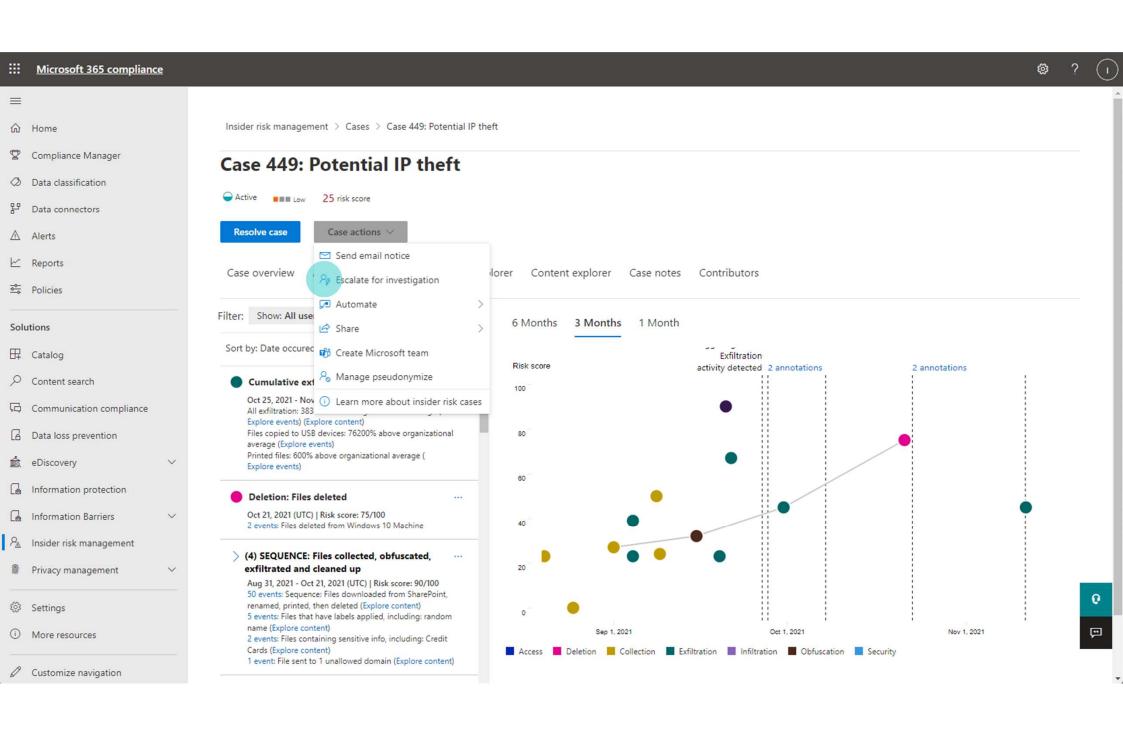
Scenario: how Insider Risk Management works

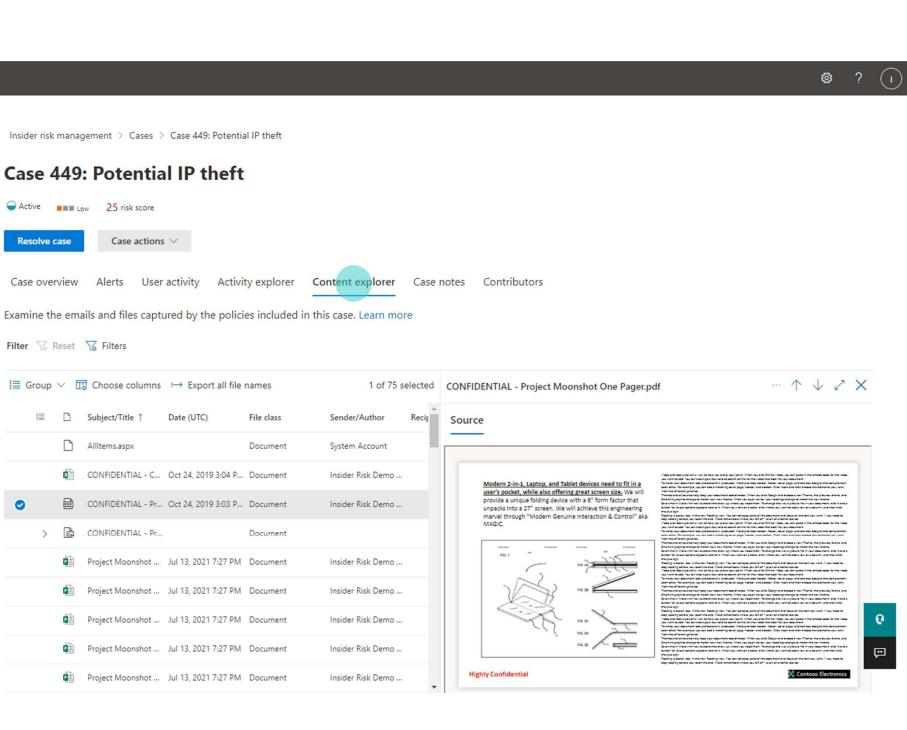
An employee resigns → HR enters resignation date in HR tool...











Microsoft 365 compliance ⋒ Home Compliance Manager Data classification P Data connectors

Active Low 25 risk score

Filter 🖟 Reset 🎏 Filters

Subject/Title ↑

AllItems.aspx

Resolve case

△ Alerts

∠ Reports

Policies

Solutions

TH Catalog

Content search

Communication compliance

Data loss prevention

eDiscovery

Information protection

Information Barriers

P_A Insider risk management

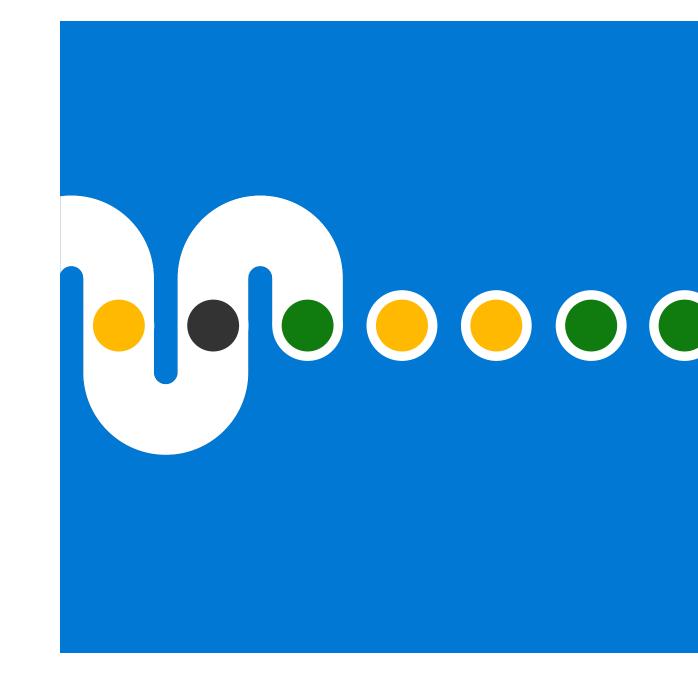
Privacy management

Settings

More resources

Customize navigation

Best Practices and Learnings from Customer References



Stakeholders and Process

Legal+Compliance

Business Unit

Data Privacy Officer

Human Resources

Workers Council

Security

Data Privacy Officer Privacy concerns

Human Resources Corporate policies, healthy workplace

Workers Council Employee privacy concerns

Security Risk management, intellectual property protection

Policy Definition

Agreement with all stakeholders on:

- Users in scope
- policies + triggers
- prioritized content
- prioritized uses should be activated.

No alert

System does not create any analytics related to a specific user.

Alert

Goal: filter out obvious false positives
User identity undisclosed (pseudonymization on).
Only metadata of content visible.

Case

Goal: look at details and history of user behavior; collaborative conclusion about relevance and severity of the case. Filtering out remaining false positives.

Investigation

Goal: preserve evidence and decide which disciplinary actions are taken against confirmed misbehavior of the user.

User identity disclosed. Full visibility about content involved.

Security

Legal+Compliance Legal actions and regulatory compliance

Business Unit of the user Impact on the business

Lessons Learned

Goal: what needs to be changed to prevent the next similar case? Refine policies. What went well and what needs to be improved?

Volume Relevance

How to Run an Insider Risk Management Program

Key Questions

- What are the major risks? → Definition of risk scenarios and priority use cases.
- What do you want to protect? → What are my critical assets? Which groups/departments are in focus? Which region is in scope?
- Who are the key stakeholders? → Ensure that key stakeholders are involved and commit support in the program. Ensure required approvals to proceed.

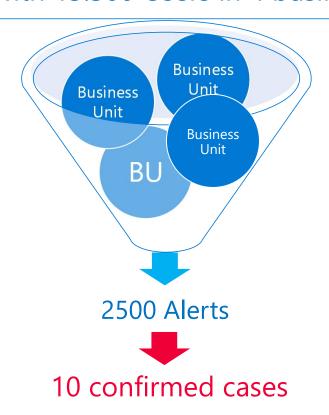
Key Challenges

- Each business unit needs to understand their specific data risks
- Alignment with HR, legal/compliance and workers council
- Identifying critical assets/priority groups
- Insider risks can't be solved by tools alone
- Define what is a "malicious" behavior and what is a risky user?
- Tweaking policies to reduce false positives
- Definition of **processes** and **responsibilities** of involved parties



Insider Risk Management results of a pilot over 7 months

Pilot with 13.500 Users in 4 business units



Prime Example (Leaver)



Employee resigned and moved to a competitor.



Copied 2500 files (140 GB) which were classified as company confidential to external hard drive. User had access to 23000 such classified files.



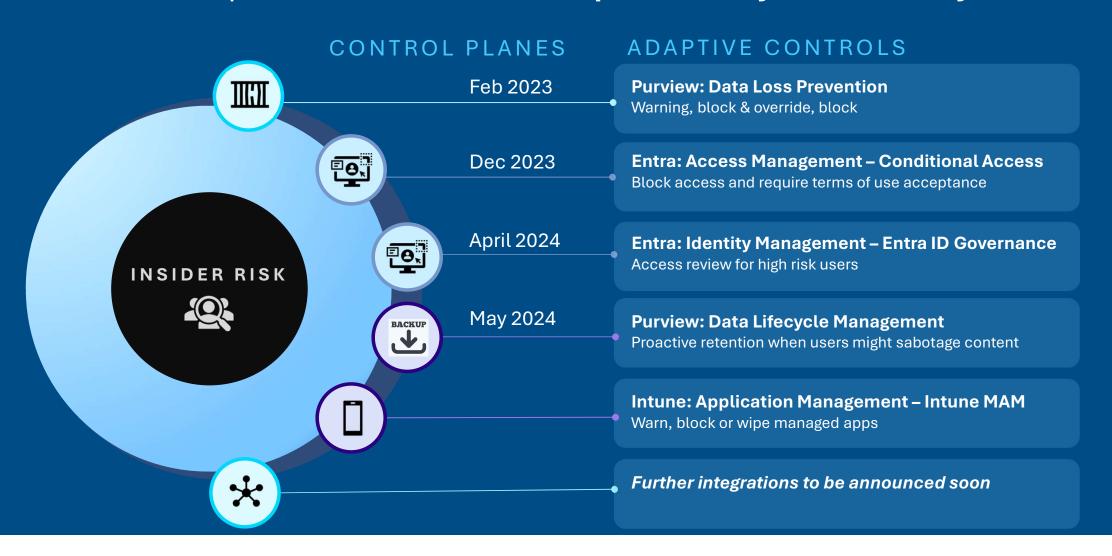
Strategy, concepts and methodology information from the business area.



Interview conducted; File transfer was admitted. No cooperation to return the data (storage device supposedly destroyed). Criminal notification made. Competitor was informed about the case.



Vision for Adaptive Protection: Balance productivity with security



Zusammenfassung

- 1. Insiderrisiken werden oft vernachlässigt, obwohl sie wichtig sind.
- Man kann eine gute Balance finden zwischen Privatsphäre der Mitarbeitenden und dem berechtigten Interesse der Organisation, ihren Wettbewerbsvorsprung zu sichern.
- 3. Vorab die Regeln zu definieren, nach denen man handeln wird und wer beteiligt wird, ist unerlässlich für schnelles Eingreifen.
- 4. So kann nicht nur IP-Diebstahl, sondern auch Sabotage eingedämmt oder verhindert werden.

Getting started with Insider Risk Management



Try it: Start a Free Trial of Microsoft Purview: https://learn.microsoft.com/en-us/purview/purview-trial



Read more: Insider Risk Marketing Page: http://aka.ms/insiderriskblog
Insider Risk in the online documentation: https://aka.ms/irmanalytics



Get in touch: Microsoft ist auf dem

ZRK-Koop-Partner Stand, Nr. 17-20

How to run Insider Risk Management

- 1. Start with a limited scope (users, business) for easier / quicker approval processes
- 2. Align with each business unit, IT, human resources, cybersecurity, data protection, workers council and upper management
- 3. Start with small number of policies and use standard templates to get quick results. Turn almost all available risk indicators on.
- 4. Identification of priority groups and target locations to reduce false positives
- 5. Align end to end process and responsibilities
- 6. Run a Proof of Concept
 - Improve the alert triage to determine the severity of the thread and if it's impactful enough to be escalated
 - Policy re-adjustment in accordance to the risk levels
 - Run end to end process (alerting, monitoring, investigation and disciplinary actions)
- 7. Present results to upper management and get decision for broader rollout



Run a Successful IRM Implementation

Key takeaways from reference customers

- IP theft is the most relevant use case. And leavers represent nearly 50% of the risky users.
 - Some DPOs find the leaver scenario problematic as a trigger because leaving is a legitimate process. But: in anonymous studies, more than 50% of leavers admit that they are taking company content with them. That can be a justification to enable it nonetheless.
 - Some customers turn IRM on when they sell parts of the business (spin-off).
- Finance, consulting, product development, technology projects are the most affected areas for data leakage.
- Insiders do not follow the same pattern. Cases are not country, age, job function or gender specific.
- A user risk behavior can be understood differently depending on the culture, country and business.
- Data privacy is key to get approval from workers council to be able to conduct investigations.
- When you catch insiders, they do argue that they made copies only as personal backups. → Make sure that your policies clearly states that you don't allow personal backups and communicate that regularly.
- Advanced audit log with longer history of the user activities is helpful for long running investigations (more than 90 days).
- Getting an agreement from legal, compliance and workers council can take some time.
- You can start with Insider Risk Management even without labeling and data loss prevention but it becomes sharper when you have content classified and DLP policies enabled.

Licensing Insider Risk Management

Every person, who is part of a policy, needs a license.

For Information Workers: Insider Risk Management E5 (list price starts at \$12 per user per month or

Compliance E5 or

Microsoft 365 E5

For Frontline Workers: F1/F3 + F5 Compliance or

F1/F3 + F5 Security+Compliance