

Harnessing Al For Data Security

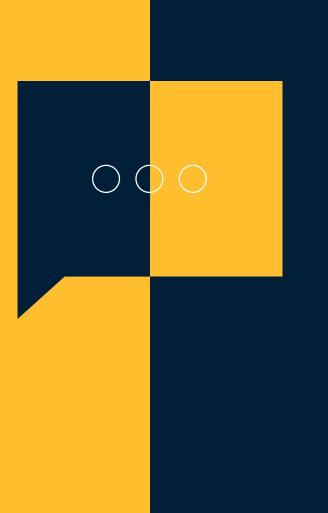
A Guide To Proactive Risk Management

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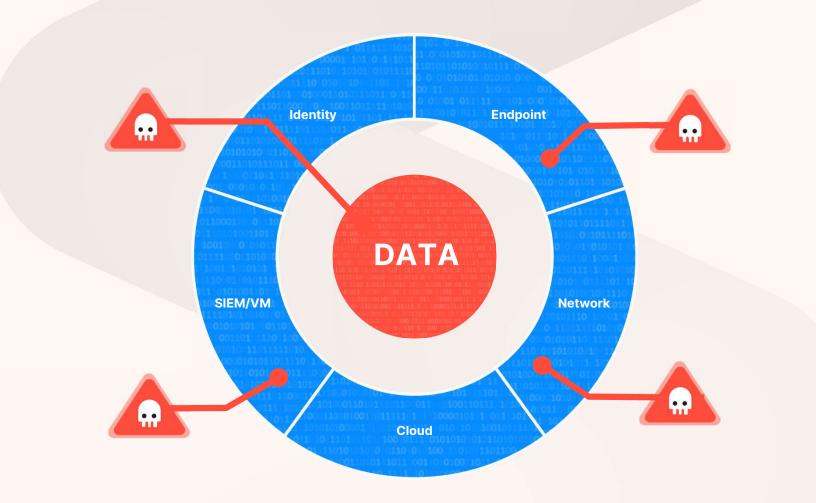
April 2024

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The Situation



DATA REMAINS AT **RISK**



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WHILE... 100 > (××) س Ransomware Attacks of countries that added 137 620+ Countries 221 ZB data legislation Zettabytes **Million** # 2026 2021 2021 Mid-Year Update: 2022 SonicWall Cyber Threat Report: Worldwide IDC Global DataSphere Forecast, 2022-2026: Enterprise Organizations Driving Most of the Data Growth, May UNCTAD, Data Protection and Privacy Legislation Global Ransomware Attacks in 2021. Worldwide, December 2021. 2022.

DATA IS EXPLODING

DATA REGULATIONS ARE EXPLODING

DATA ATTACKS ARE EXPLODING

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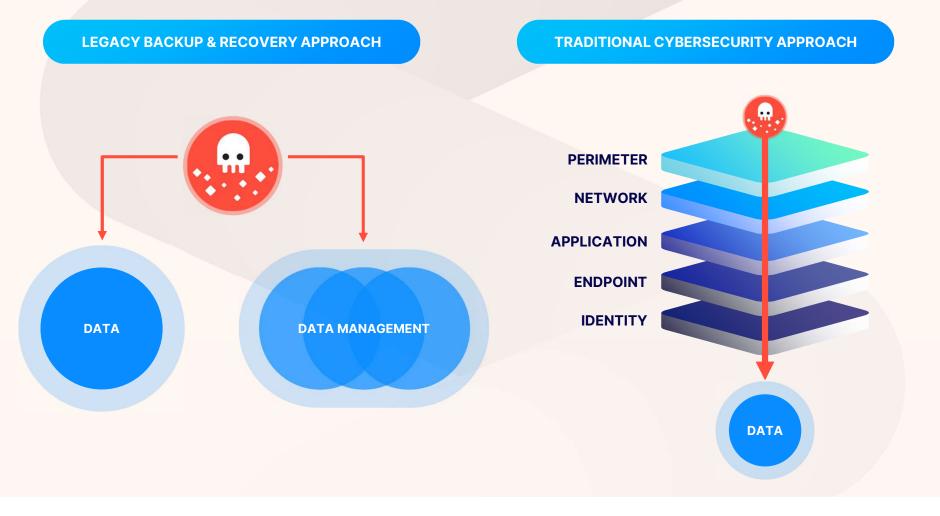


RANSOMWARE ATTACKS WILL STRIKE EVERY 2 SECONDS WITHIN THE NEXT 10 YEARS



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DATA SECURITY IS SLIPPING THROUGH THE CRACKS



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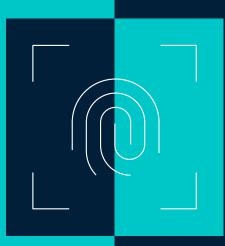
BSI Lagebericht - November 2023

"Einen vollständigen Schutz vor Ransomware-Angriffen gibt es nicht, ..."



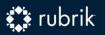
Bundesamt für Sicherheit in der Informationstechnik Deutschland Digital•Sicher•BSI ... denn Angreifer können auch neue Angriffswege nutzen, für die noch **keine Detektions- und Abwehrmethoden entwickelt wurden**. Bestimmte Angriffe zum Beispiel auf Unternehmen, Behörden und IT-Dienstleister können aber durchaus auch verhindert werden. Backups und Notfallpläne unterstützen dabei, die Auswirkungen im Ernstfall zu begrenzen oder sogar vollständig zu kompensieren.

Hackers aren't breaking in...



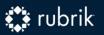
They're logging in.



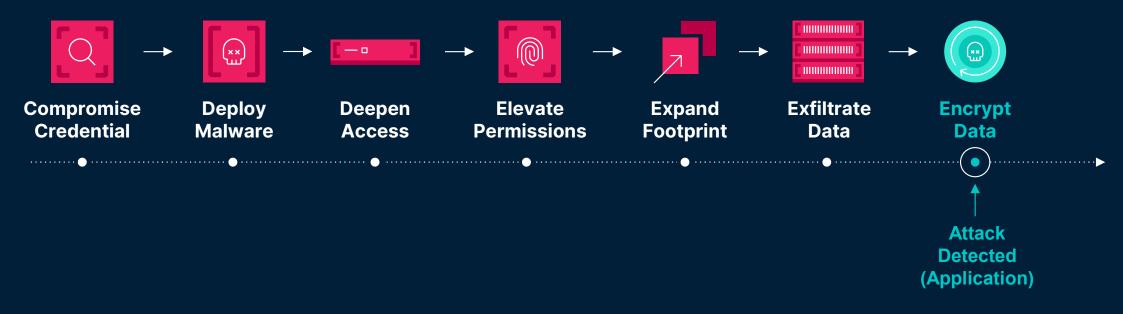


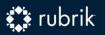
Anatomy of a Zero Day Cyber Attack



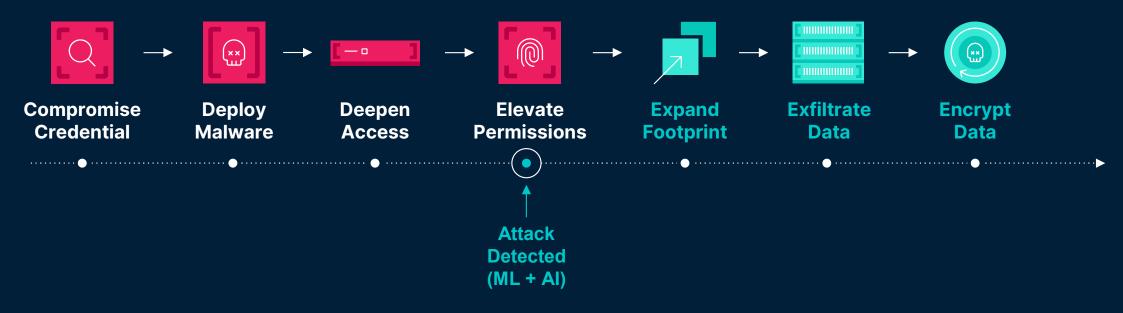


Anatomy of a Zero Day Cyber Attack





Imagine you could detect it sooner





True Cyber Resilience



Zero Labs Results

The future of data security

- 98% of external organizations believe they currently have significant data visibility challenges
 - A typical global organization's data is growing by 73% in the cloud over the last 18 months
- 66% of Security leaders believe their data growth has already outpaced their ability to secure data and manage risk
 - 62% of external organizations believe employees are accessing data in violation of established data policies





98%



73%



AI & The Threat Landscape

Understanding the risks



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The Threat Landscape

Generative AI Based Threats

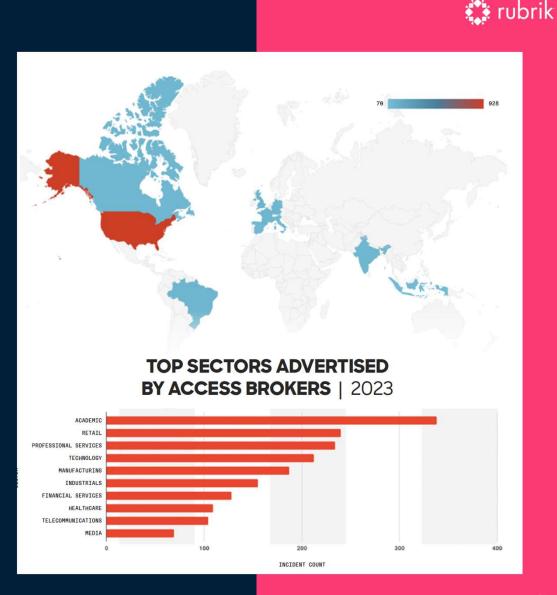
- GenAl now actively used in malware production
 - FraudGPT, WormGPT & OPWNAI

App, Credentials & Zero Day Attacks

- A Cyberattack occurred every 29seconds in 2023(1)
- Exploited vulnerabilities led to 36% ransomware attacks in 2023 with 28778 CVEs in 2023 (2)

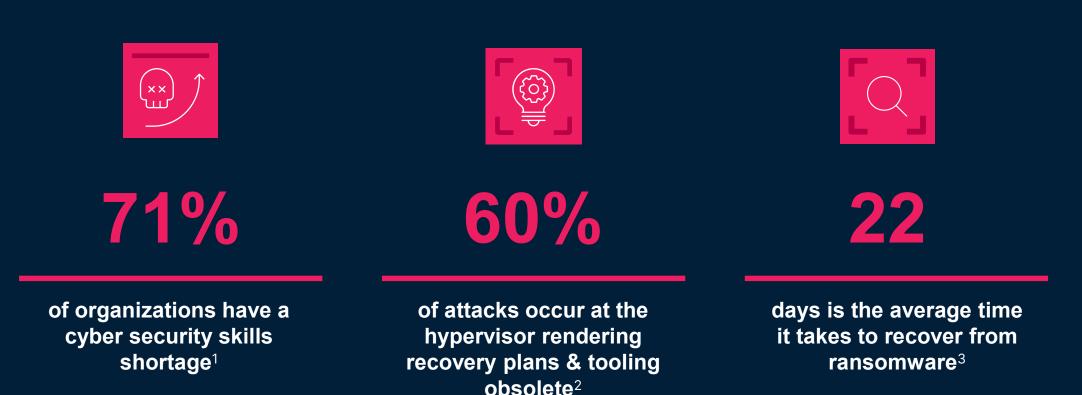
Data Breach Statistics

- Average Data Breach cost @ \$4.45m (3)
- Average cost of a ransomware attack 2023 USD \$1.85 million(4)





Cybersecurity Skills Shortage Increases Downtime



¹ Enterprise Strategy Group: The Life and Times of Cybersecurity Professionals, Volume VI, 2023
 ² Rubrik Ransomware Response Team, Nov 2023
 ³ Statista: Length of impact after a ransomware attack worldwide, Q2 2022



Maturing Cyber Security & Resilience

Leveraging AI effectively to manage risk





Al used for Data Security & Cyber Resilience

Generative AI	Machine Learning		Predictive Deep Learning
Interactive & Guided Security Insights	Security Intelligence	Automated Security Recommendations	Proactive Support & Customer Success

malpedia				Fraunh	ofer	
	Inventory	Statistics	Usage	ApiVector	Login	
General YARA Timestamps Linker Info WinAPI Usage WinAPI Frequencies						
General Statistics						
3117 Families 8049 Samples						



Azure OpenAl

Respond to Incidents Faster with Generative Al-driven Recommendations

Incident tasks

E Microsoft Azure	\mathcal{P} Search resources, services, and docs (G+/)	O REFRESH + ADD TASK
Hone > Microsoft Sentinel > Sincersoft Sentinel > Sincersoft Sentinel > Sented workpace make key thin Sented Overview Since Threat management Norska Workbooks Hunting Norskooks Sincebooks Senty behavior		Q Search 0 / 4 comple
Threat intelligence Threat intelligence Threat intelligence The ANTREATTACK (Preview) Content management Content hab Repositories (Preview) Configuration Workspace manager (Preview) Data connectors Analytics Analytics Automation	Potential malicious events	Dati Created by: Playbook - OpenAlChatCompletion Dati CompenAl Task 2 Perform a deeper investigation of the potential attack: Use the Rubrik Anomaly Detection and VM Recovery playbook in Sentinel to create a snapshot of the affected object to preserve evidence. Here's a KQL query that can be used to search for related anomalies and events: Let IncidentTime - datetime (2023-05-01); let DetectionTime - IncidentTime -

e - IncidentTime -2d; let RecoveryPoint - IncidentTime - 1d; Rubrik_Ransomware_Data_CL | where TimeGenerated > DetectionTime and TimeGenerated < IncidentTime | where custom_details_eventName_s...

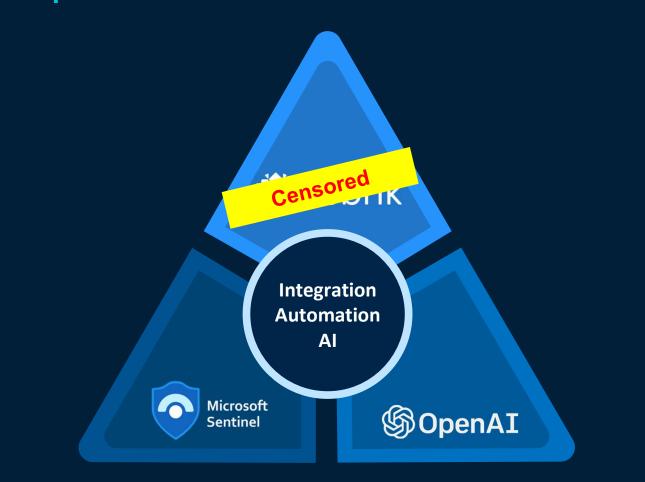
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Created by: Playbook - OpenAlChatCompletion





Censored - Microsoft Sentinel + Azure OpenAl Respond to Threats Faster with Generative Al-driven Cyber Recovery



- Streamline Incident Creation
 Automatically create incidents in
 Sentinel based on
 Backup/Snapshot intelligence
- Automate Task Workstreams Azure OpenAl suggests incident response tasks, speeding investigation
- Accelerate Cyber Recovery Enabling IT and security teams to react swiftly to maintain business resiliency

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Final Thoughts



Call to Action

The only important slide in this deck

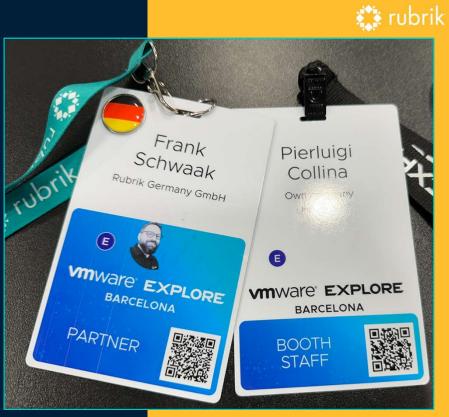
- Make sure you are covered in regards to all 6 pillars of the NIST CSF v2
- Check if your last line defence is truly resilient
- Check of your backups are air-gapped and 100% immutable (not just "marketing immutable")
- Implement tools that have been created with Zero Trust First & in mind (no 3rd party apps!)
- Make use of ML and AI as part of your cyber recovery strategy...
- ... but don't let AI automatically initiate the responses
- Be prepared for the day and test recoveries to an IRE on a regular basis (ideally automated)
- Live and breathe Zero Trust and most importantly use Common Sense
- See new Regulations not as a Pain but as a Chance to improve the overall Cyber Resiliency

• Come and see me here today and tomorrow for additional thoughts

Want to learn more?

https://events.rubrik.com/data-security-talks









rubrik Security Cloud

Thank you!

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