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Is Your Microsoft 365 Data Recoverable?

How to Survive the IT Hotseat When Data is Lost

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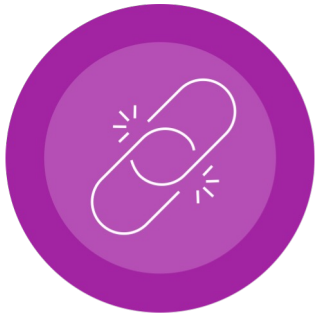
Drew Russell - Technical Go-To-Market Lead, Cloud and SaaS, Rubrik

@ Rubrik 2023

In This Session, You Will Learn…

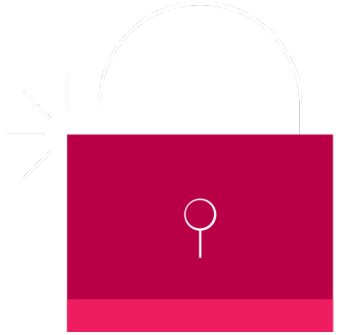
- Why and how to protect Microsoft 365 against targeted threats
- How Rubrik can secure and recover your data in the face of cyber attack
- How Rubrik advancements in resilience, observability, and remediation work for Microsoft 365 protection (Demo!)

Microsoft 365 is at Risk



Microsoft 365 is business critical

300 million users worldwide



Data loss is real

75% have seen increase in email threats [1]

It's being attacked

71% have seen an account takeover [2]

[1] State of Email Security 2022 report, Mimecast, 2022
[2] Securing Microsoft Office 365 in the New Normal,Vectra AI, 2021

Microsoft 365 Vulnerabilities

Brand new threats being discovered monthly

- Hackers more creative
- Leveraging session cookies to bypass MFA
- Phishing campaigns, account takeovers, etc.

> Phishers steal Office 365 users' session cookies to bypass MFA, commit payment fraud
>
> ZELJKA ZORZ, EDITOR-IN-CHIEF, HELP NET SECURITY (7.13.22)

> Ransomware attackers can exploit OneDrive feature to delete backups
>
> RUAL DE VRIES (6.17.22)

> Ongoing phishing campaign can hack you even when you're protected with MFA
>
> DAN GOODIN, BIZ & IT (7.12.22)

> American Airlines learned it was breached from phishing targets
>
> SERGIU GATLAN (9.24.22)

> A Microsoft Office 365 Feature Could Help Ransomware Hackers Hold Cloud Files Hostage
>
> RAVIE LAKSHMANAN (6.16.22)

> IHG hack: 'Vindictive' couple deleted hotel chain data for fun
>
> (9.17.22)

> Russian APT29 hackers abuse Azure services to hack Microsoft 365 users
>
> BILL TOULAS (8.19.22)

https://www.cisa.gov/uscert/ncas/alerts/aa22-047a

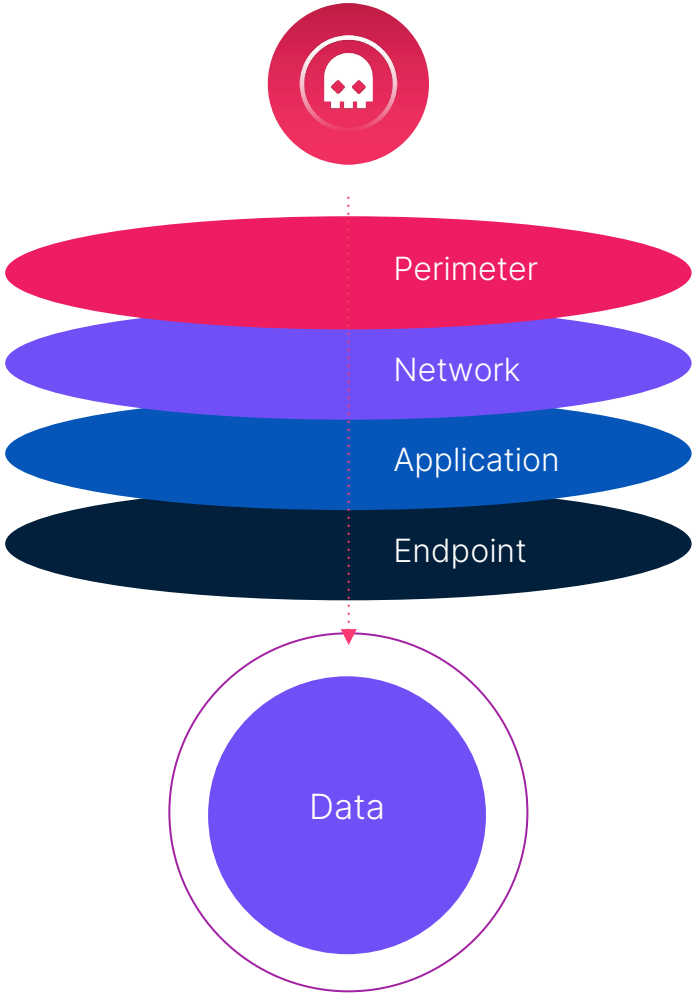
Alert (AA22-047A)

In many attempted compromises, these actors have employed similar tactics to gain access to enterprise and cloud networks, **prioritizing their efforts against the widely used Microsoft 365 (Microsoft 365) environment.** The actors often maintain persistence by using legitimate credentials and a variety of malware when exfiltrating emails and data.

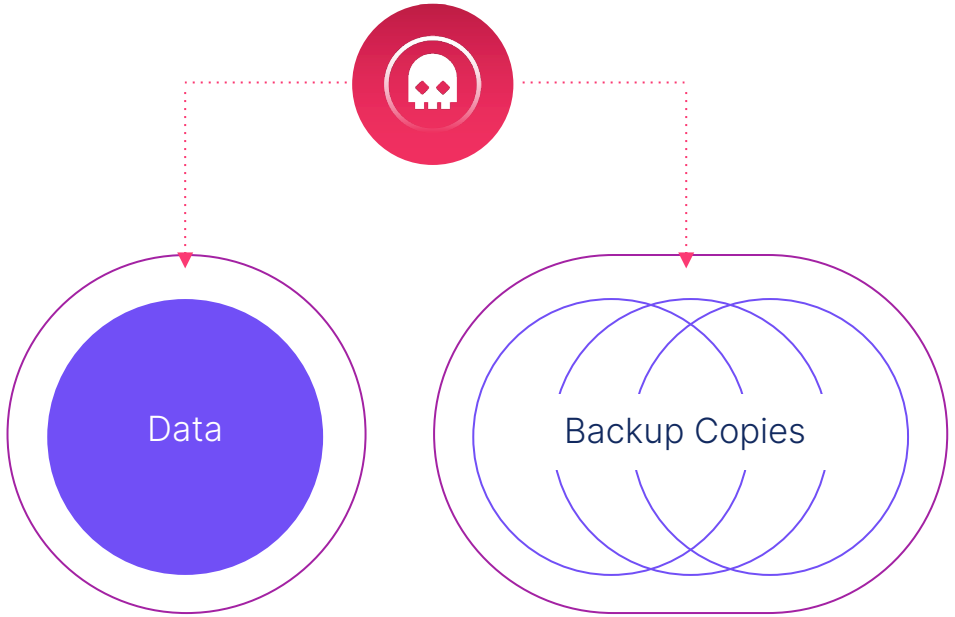
Russian State-Sponsored Cyber Actors Target Cleared Defense Contractor Networks to Obtain Sensitive U.S. Defense Information and Technology, CISA, 2022

Businesses Are Under Attack

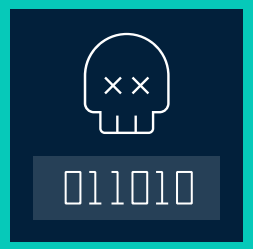
"Assume Breach"



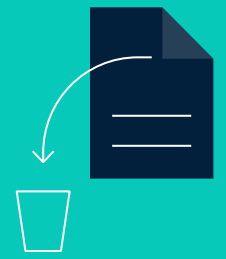
Data and Backups are the targets



What would you do if:



You were hit by a ransomware attack on Microsoft 365?



You experienced a rogue or inadvertent deletion of critical files?

Shared responsibility in the cloud

Step 1:
Verify your backups

If you **have offline backups**, you can probably restore the encrypted data after you've removed the ransomware payload (malware) from your environment and after you've verified that there's no unauthorized access in your Microsoft 365 environments.

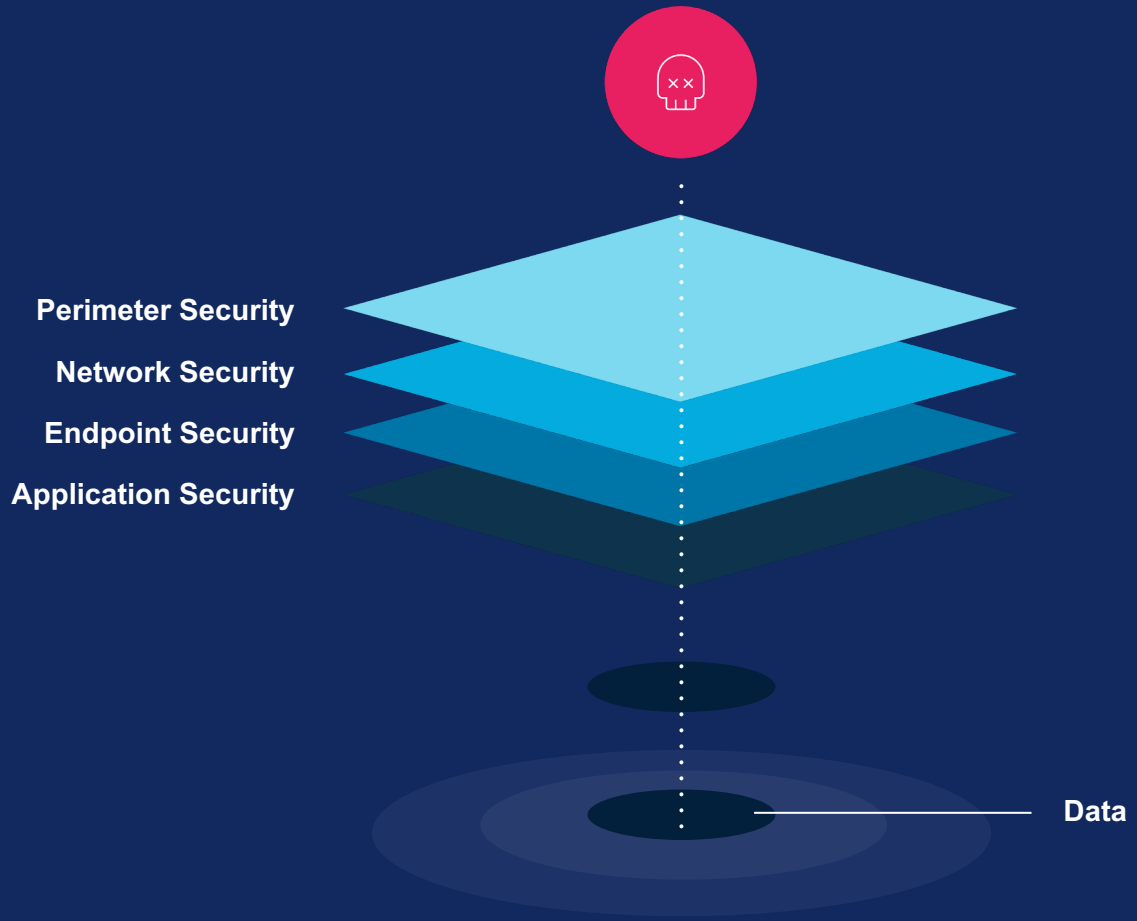
Step 6:
Service availability

In the event of an outage, you may not be able to retrieve Your Content or Data that you've stored. We recommend that you regularly **backup Your Content that you store on the Services or store using Third-Party Apps** and Services.

Defense in Depth

Enterprise

SaaS



Defense in Depth

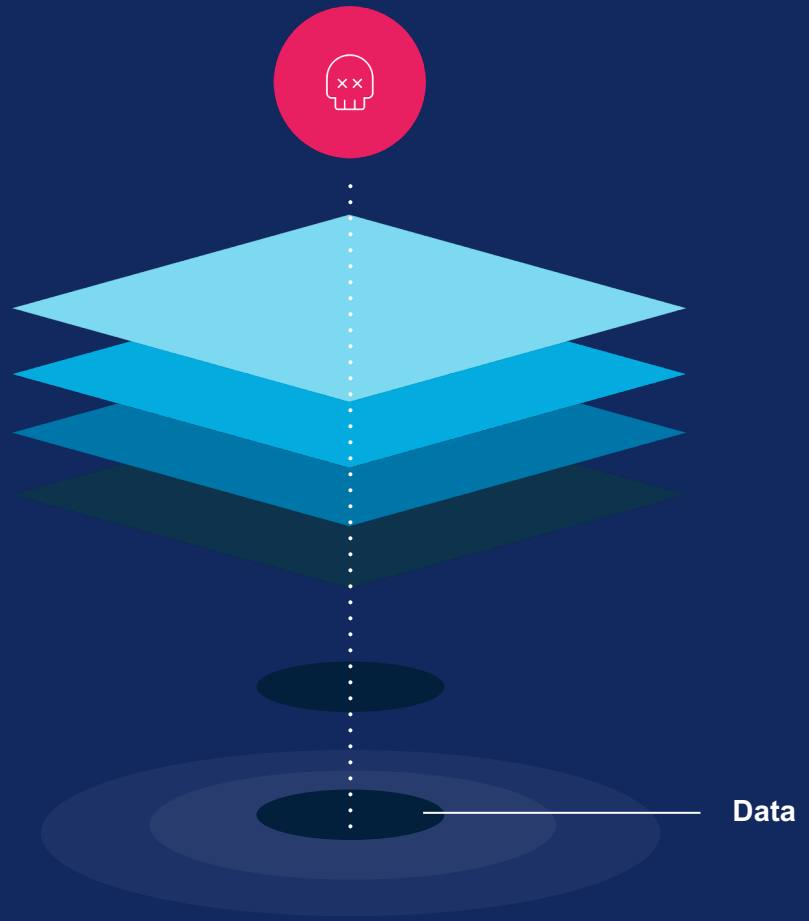
Managed by Provider

Perimeter Security

Network Security

Endpoint Security

Application Security

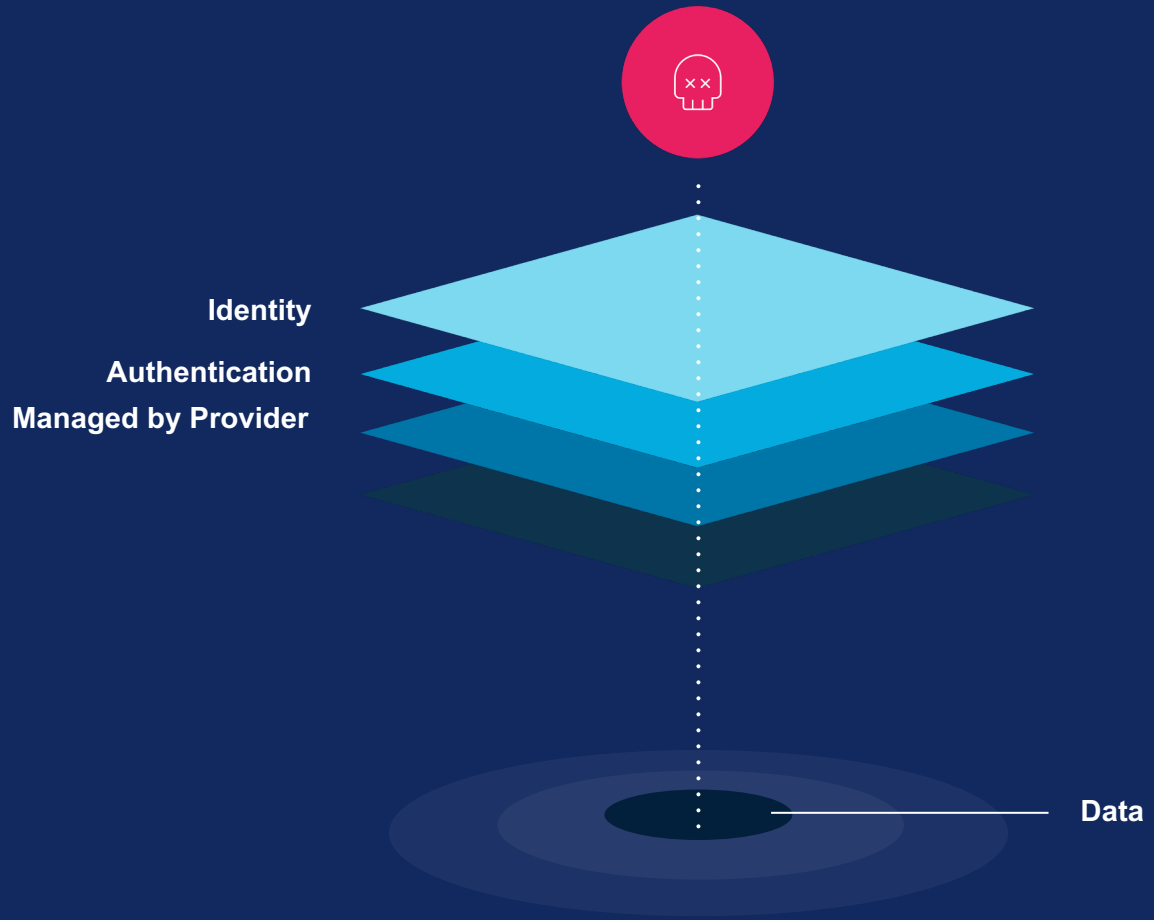


Data

Defense in Depth Redefined for SaaS

Enterprise

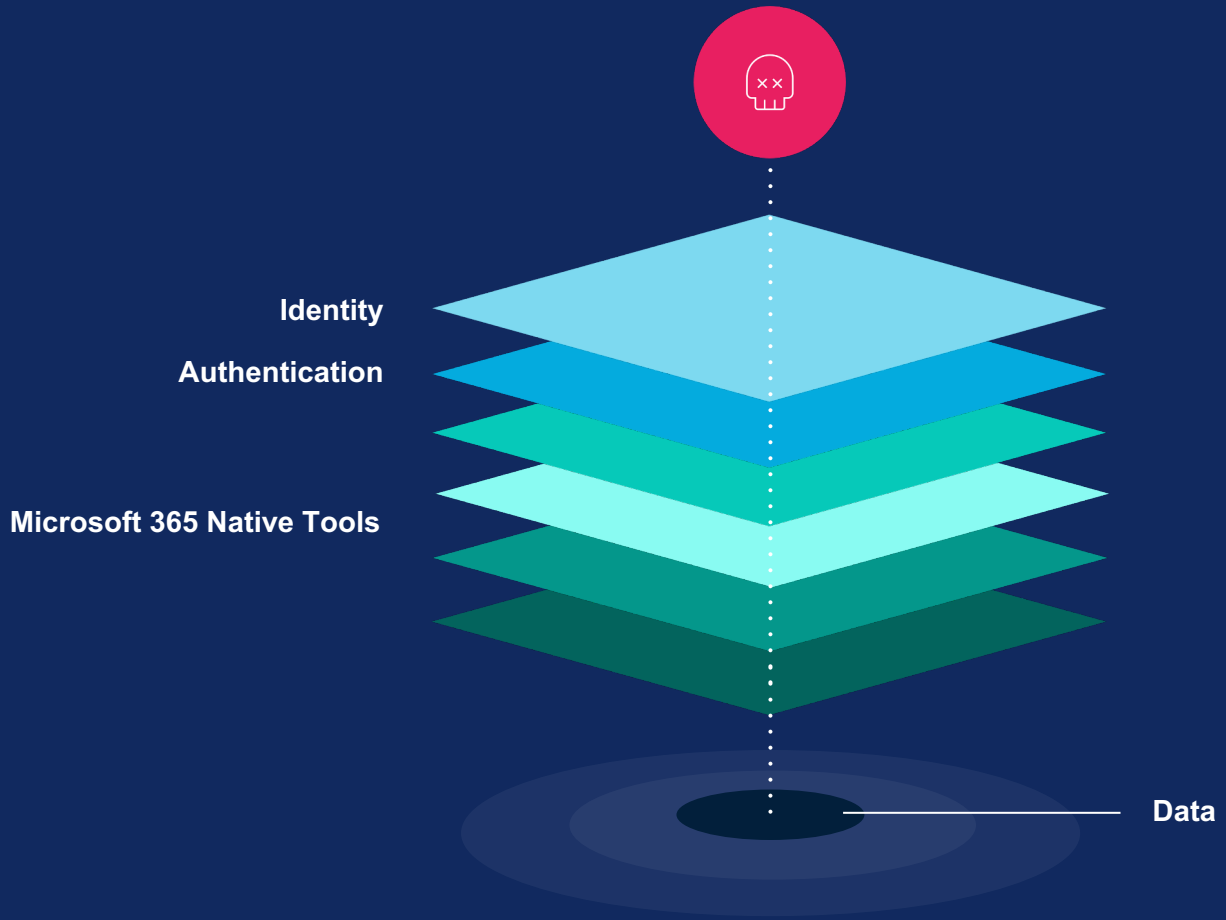
SaaS



Defense in Depth for Microsoft 365

Enterprise

SaaS



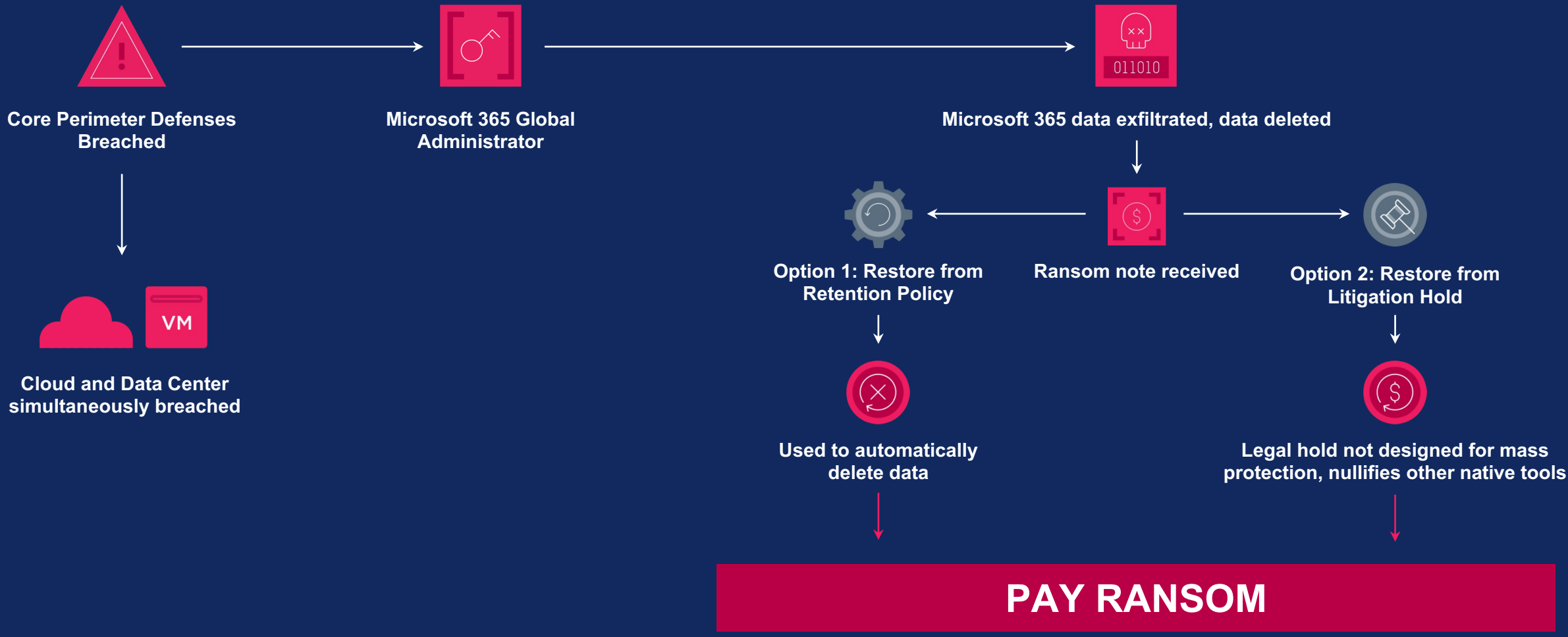
How does Microsoft look at Data Security?

Comply with legal and regulatory standards

Powered by an Intelligent Platform

Unified approach to automatic data classification, policy management, analytics, and APIs

The Microsoft 365 threat and recovery options



Defense in Depth for Microsoft 365

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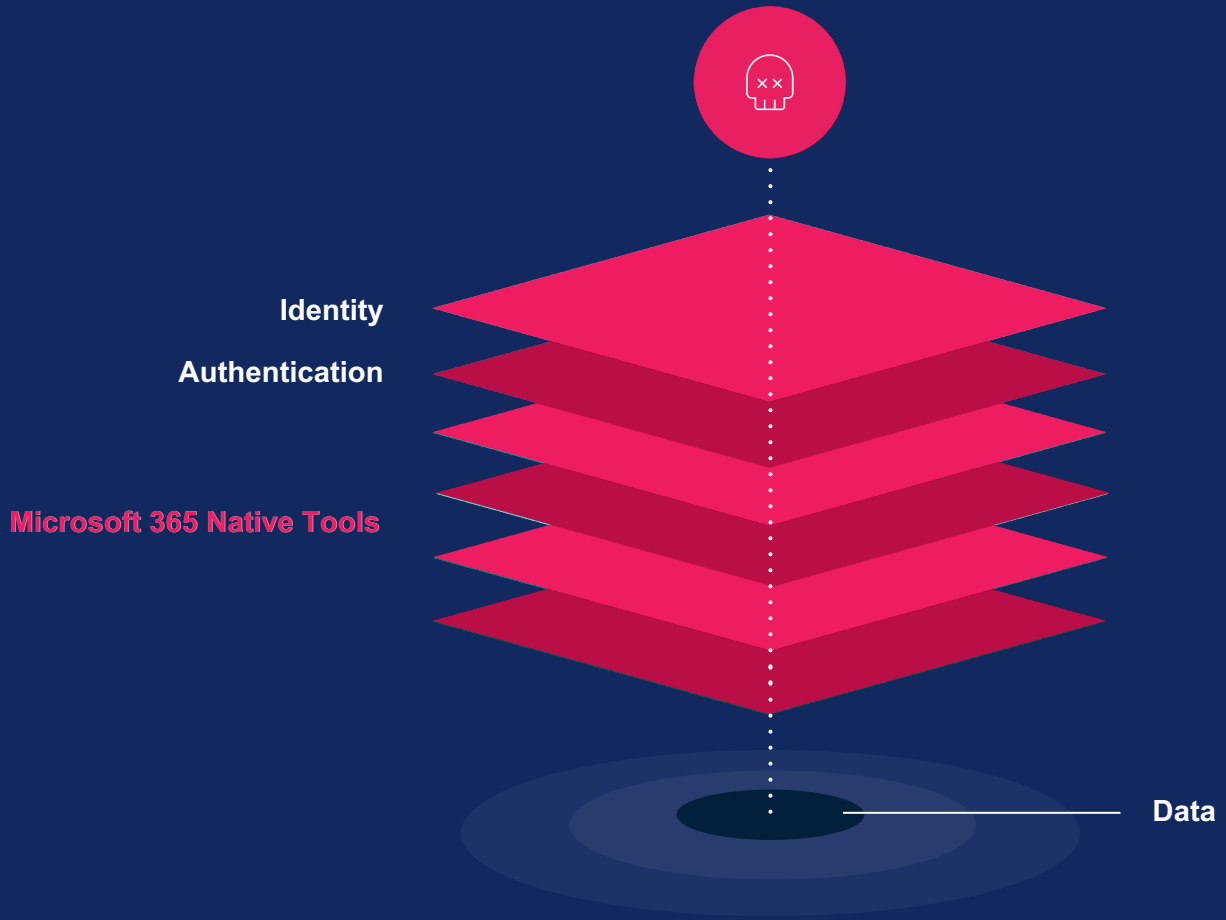

Rubrik and Microsoft come together for a holistic approach to data security

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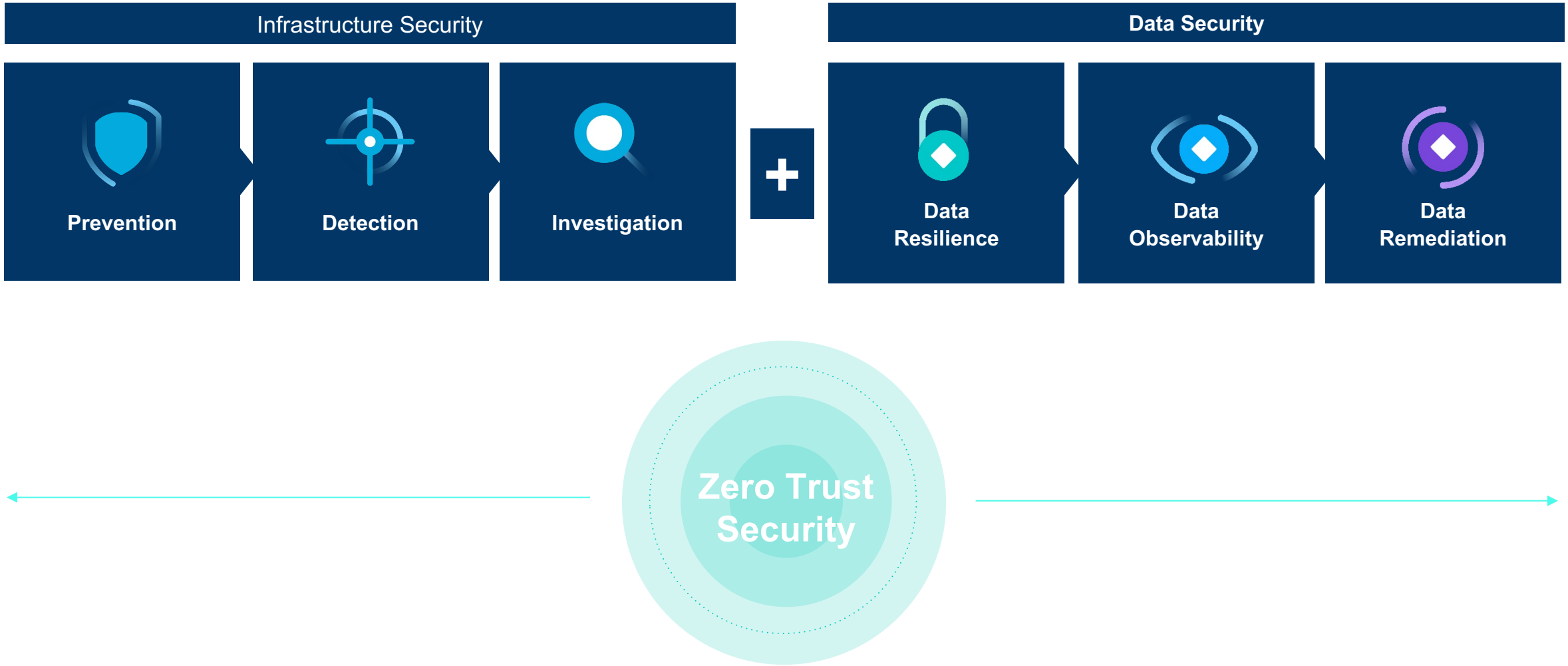
Rubrik Joins Microsoft Intelligent Security Association; Announces Integration with Microsoft Sentinel to Deliver Multi-Cloud Data Security

Latest security integrations align Security & IT Operations teams with new Data Security Risk Insights to accelerate cyber investigations and enable faster recovery from cyber attacks

The Next Frontier in Cybersecurity

Infrastructure Security And Data Security Together Provide Zero Trust Security



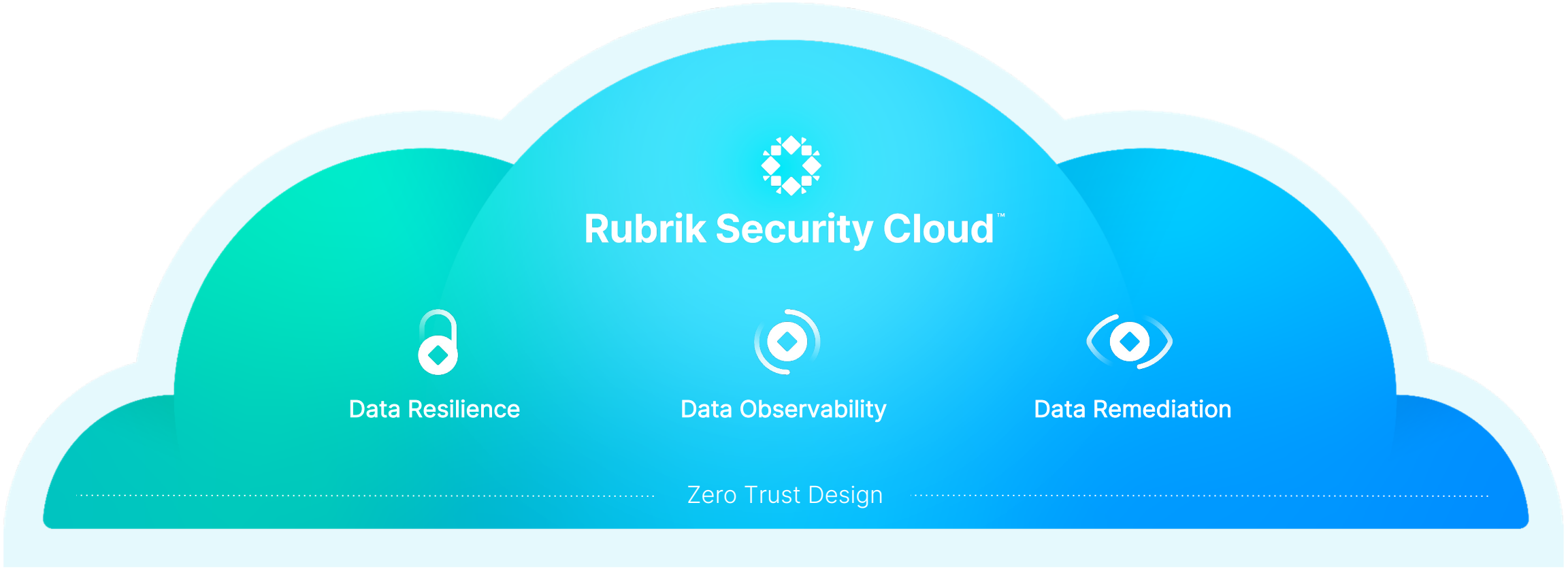
A New Approach: Backup ≠ Cyber Recovery

What if you could cyber-proof your backup data?

What if you could monitor risks and investigate threats quickly?

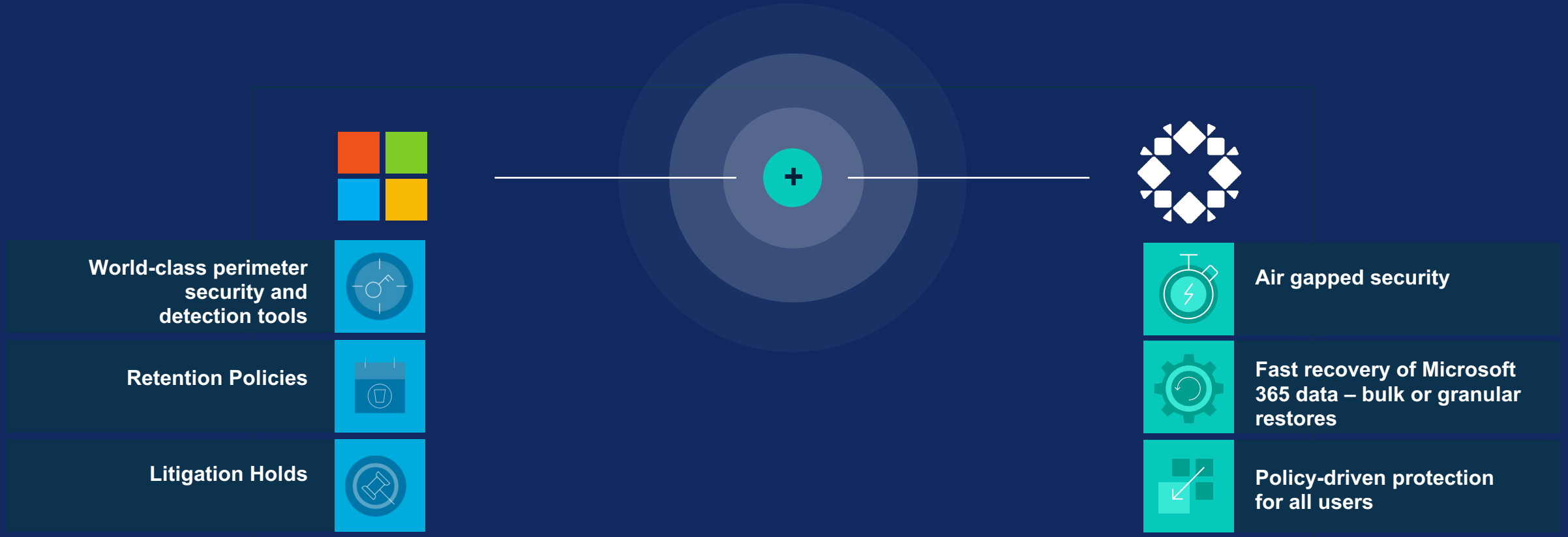
What if you could rapidly recover just the data you need?

Introducing Rubrik Security Cloud



Rubrik Data Security for Microsoft 365

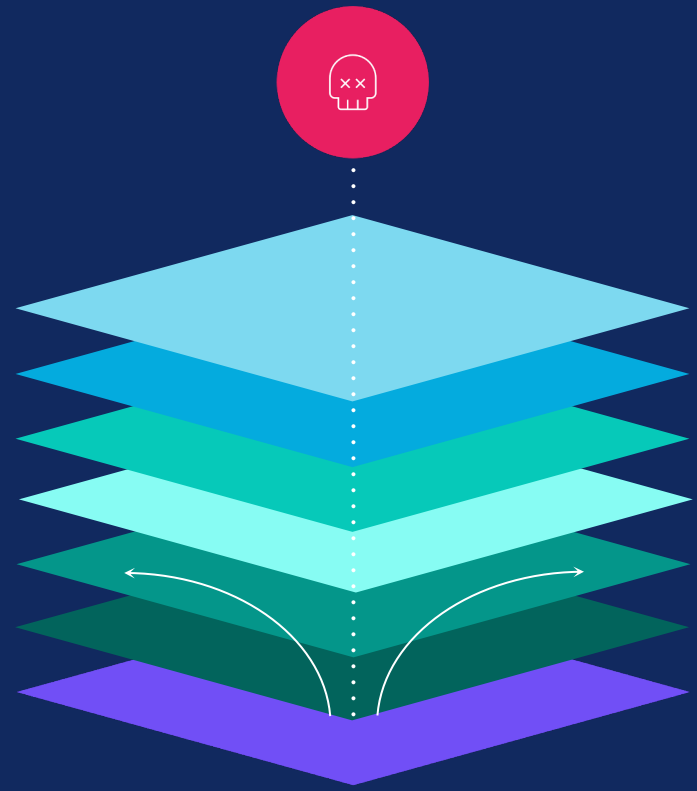
Microsoft compliance and availability. Rubrik recovery.



Microsoft and Rubrik Defense in Depth

Enterprise

SaaS

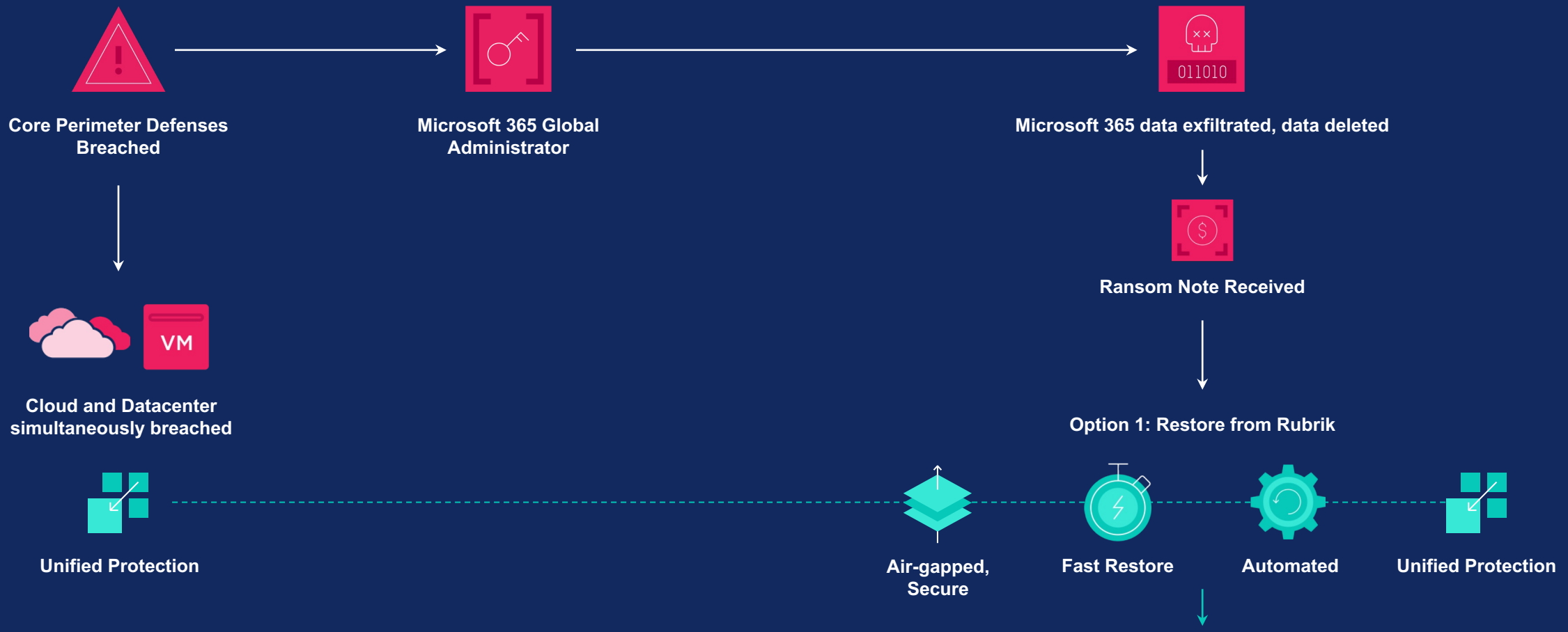


Rubrik Data Security

Logical Air Gap

Data

The Microsoft 365 Threat and Recovery Options



City National Bank of Florida Advances Security Posture with Rubrik Security Cloud

Rubrik delivered:

1,000+

Users protected with M365

Seamless

Integration with Azure Stack

24x7x365

Uniform, scalable solution, available 24x7

"As a bank, we cannot close our doors to our clients. Downtime is not an option. Rubrik allows us to remain agile, staying current with the market demand, and where the bank wants to be from a strategic level."

Ariel Carrión, CIO

Rubrik helps avoid construction disaster

Rubrik delivered:

20 GB

Inbox quickly restored after hard delete

100%

Full control of data with Rubrik for Microsoft 365

Instant

Setup to build and apply SLAs

Single policy protects entire university

Rubrik delivered:

4000

Accounts protected with 1 SLA

Instant

Setup in minutes

Minutes

To restore a user's email

How Does it Work?

How it Works

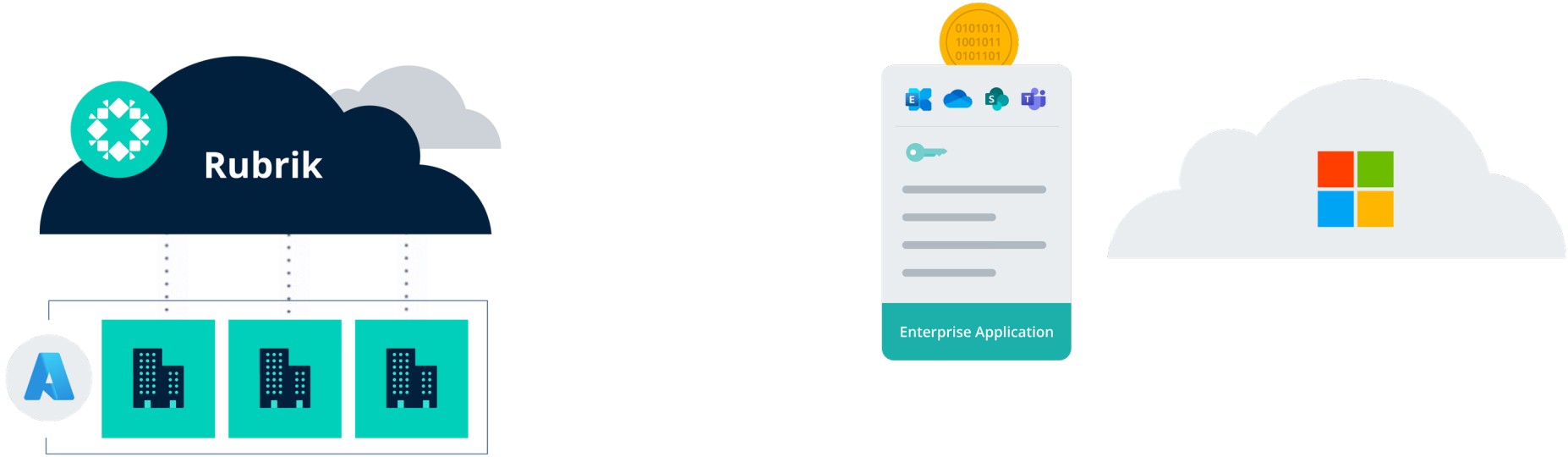
Rubrik SaaS High Level Architecture

Secure your 365 backup

Reliable Data Security

Accelerated Recovery

Universal Protection



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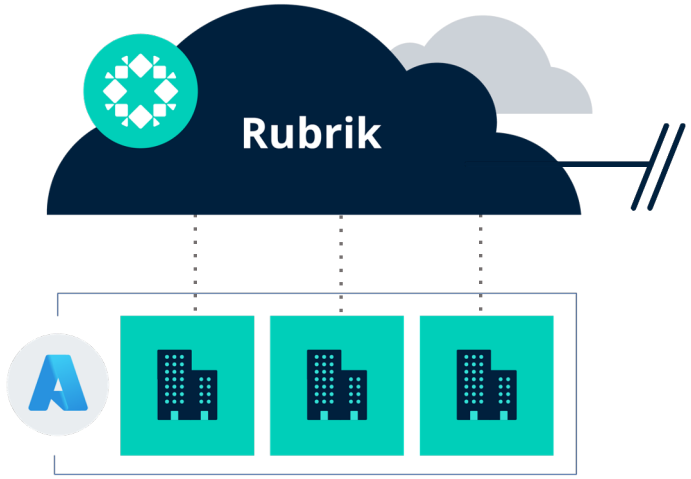

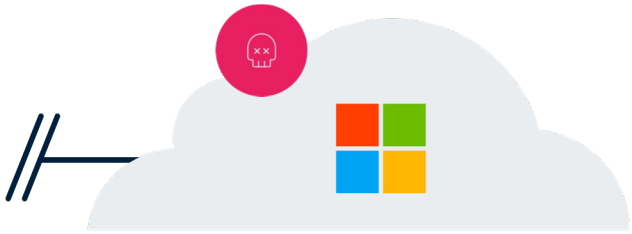

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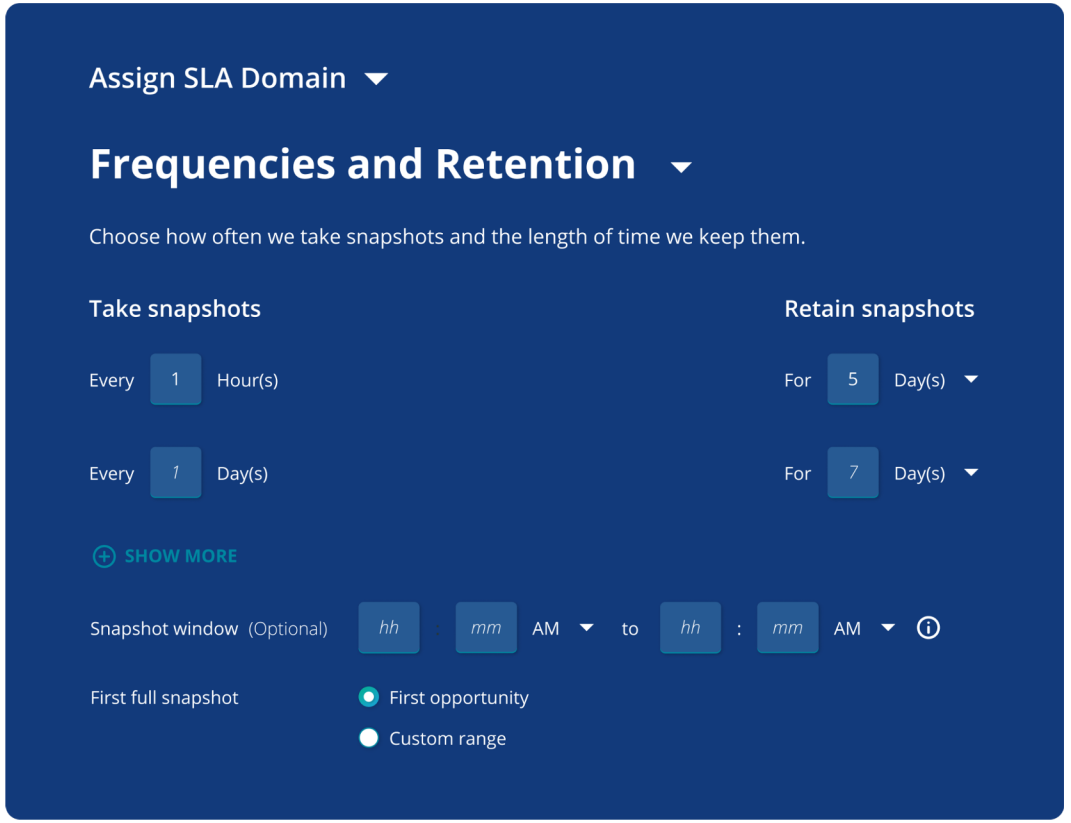

How it Works

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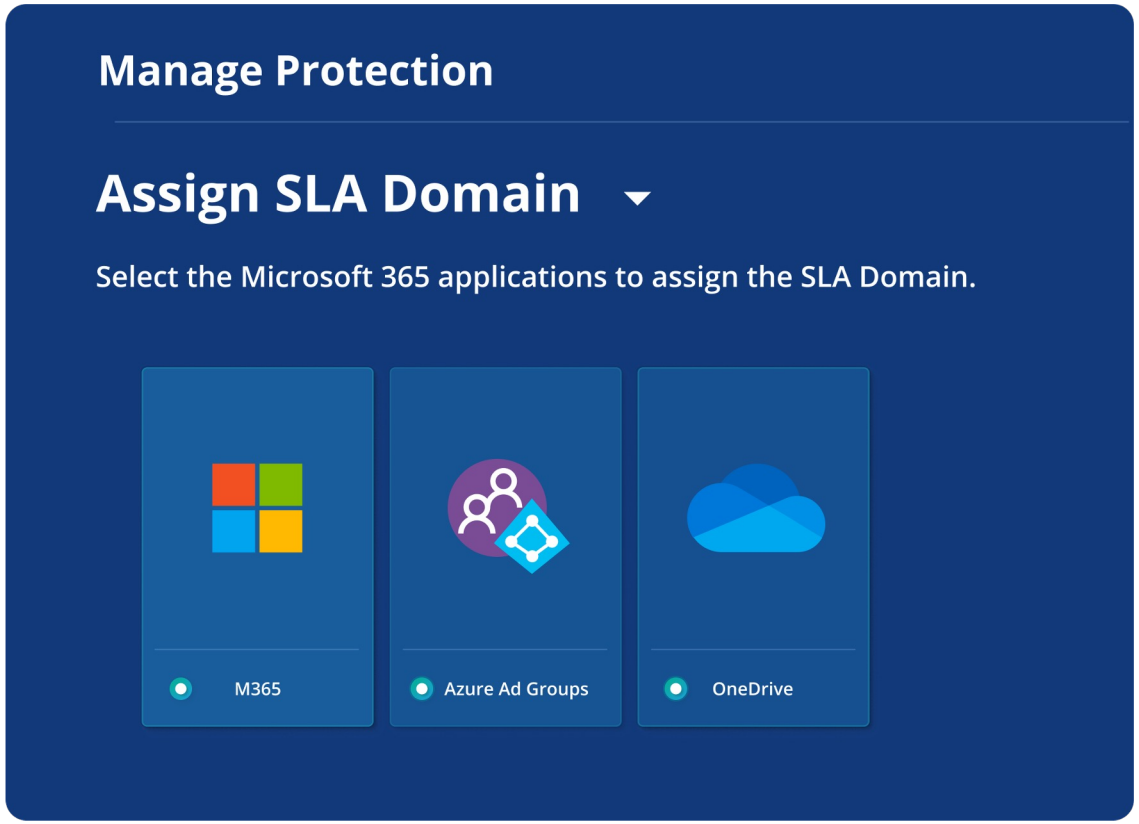


How it Works

Multiple APIs. None designed for data security

Secure your 365 backup

Reliable Data Security

Accelerated Recovery

Universal Protection

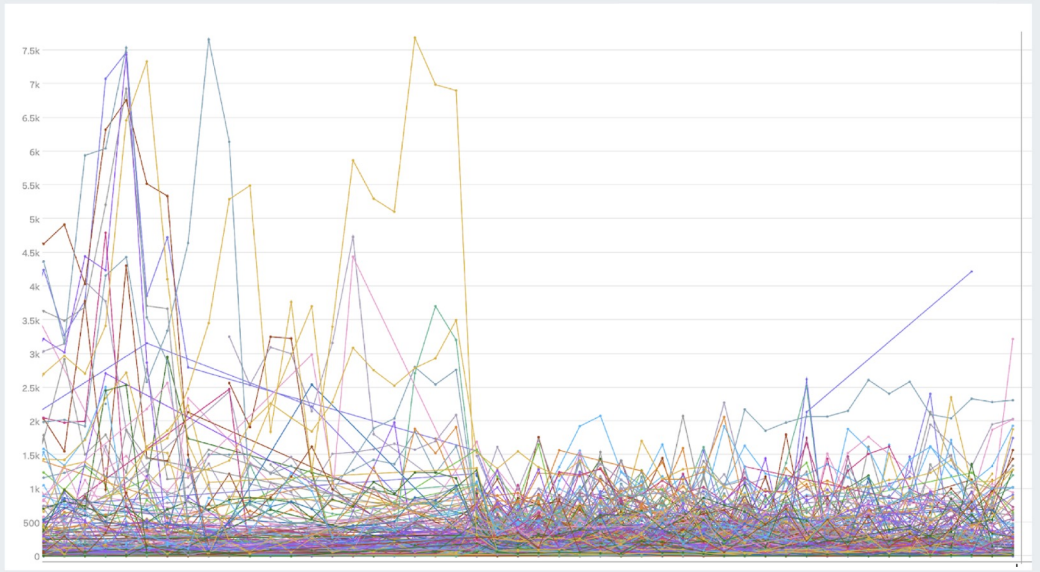
How it Works

Secure your 365 backup

Reliable Data Security

Accelerated Recovery

Universal Protection



How it Works

Secure your 365 backup

Reliable Data Security

Accelerated Recovery

Universal Protection

How it Works

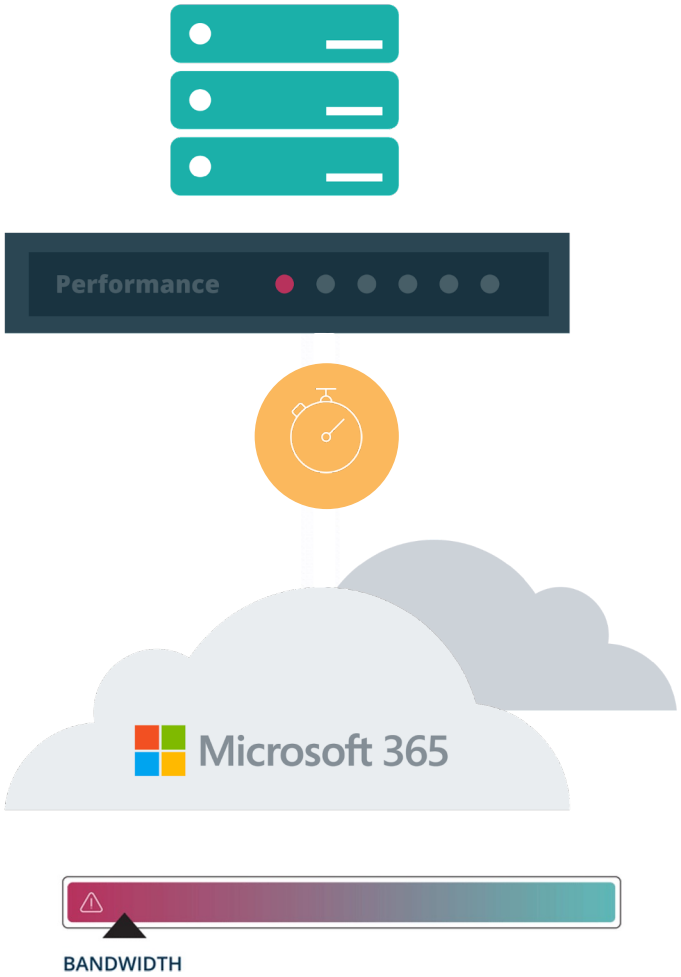
Heavily throttled Microsoft 365 APIs

Secure your 365 backup

Reliable Data Security

Accelerated Recovery

Universal Protection



How it Works

Multi-aspect load balancing to address throttling

Secure your 365 backup

Reliable Data Security

Accelerated Recovery

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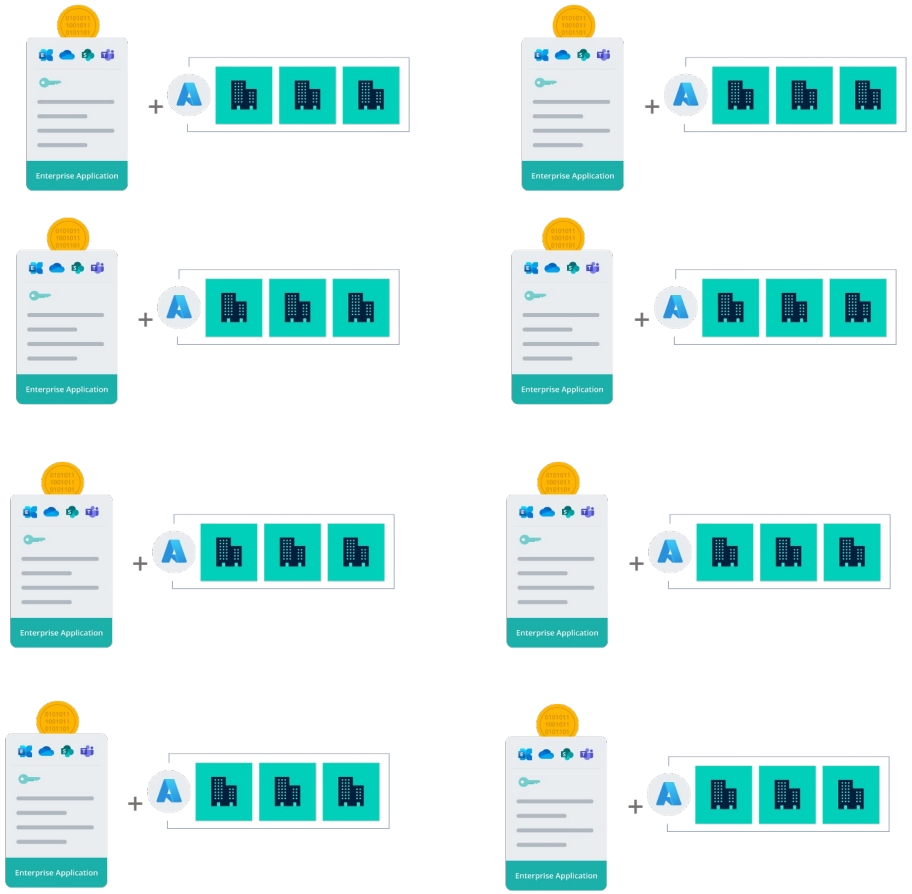

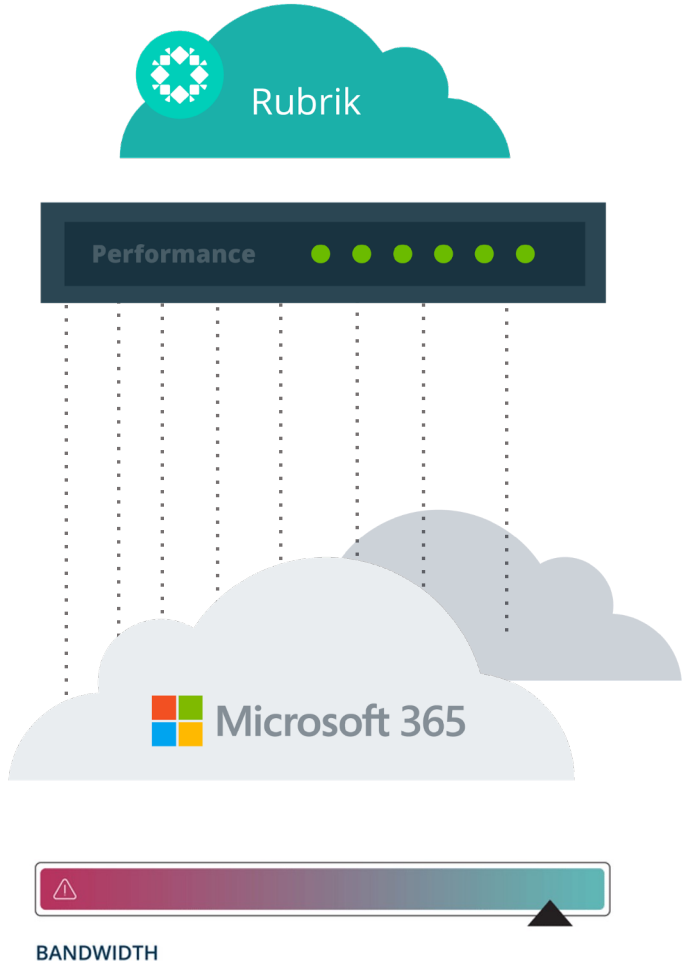

How it Works

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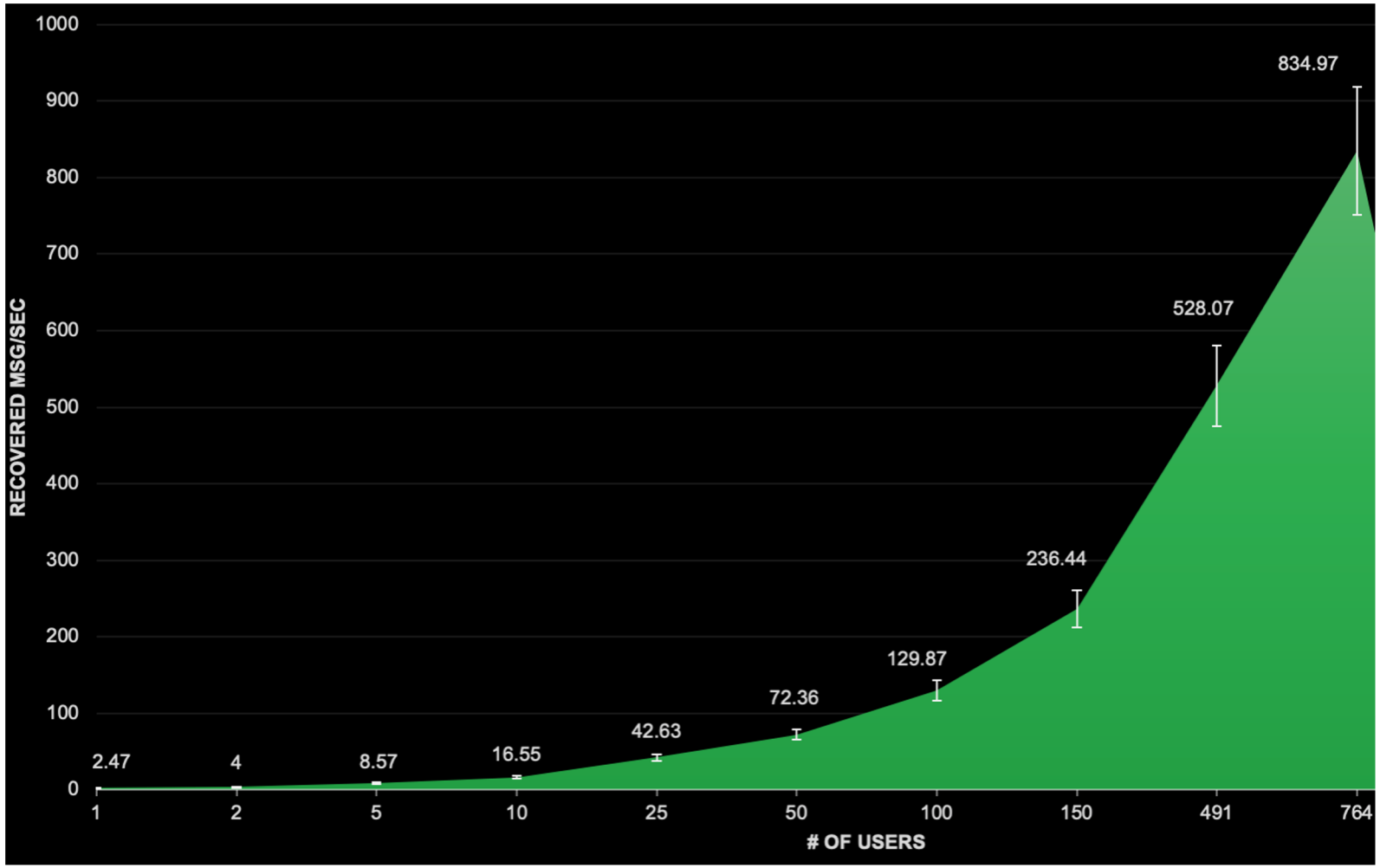

Jobs In Parallel

Demo

How it Works

Secure your 365 backup

Reliable Data Security

Accelerated Recovery

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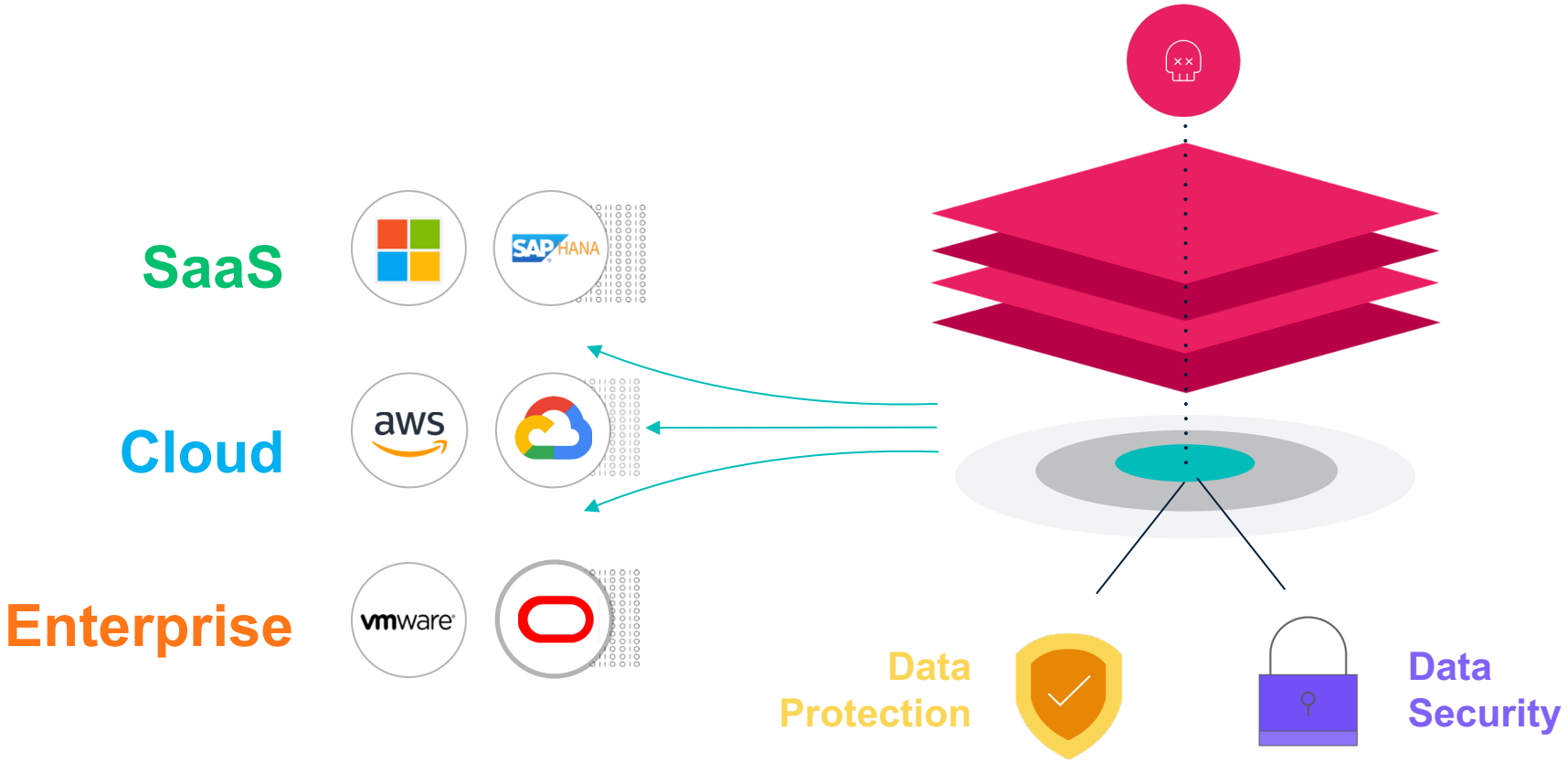

Thank You

Wrap-Up

- Microsoft 365 is a critical, Tier-1 SaaS app and is targeted by attackers
- Rubrik can secure your data from cyber attack or even human error
- Your Microsoft 365 and other organizational data can be resilient, observable, and recoverable

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- See how leading companies are tackling data security challenges
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Featured Speaker
Ryan Reynolds

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Q&A