



Cyber Resilient SAP on Microsoft Azure

Integrated SAP Solutions with Azure & Kyndryl...



Windows is most common platform for SAP apps by market share

Azure has the highest SLAs of all hyperscale clouds

Best HANA portfolio of any hyperscale public cloud

Leading integration options for SAP apps into PaaS

Numerous Disaster Recovery options



Kyndryl is a world leader in SAP Managed Environments

Kyndryl manages the SLA up the stack to the application layer

Managing SAP for over 30 years and SAP HANA for 10 years

Integrates non-SAP, PaaS, SaaS, Cloud Connectors and 3rd Party Apps to client's ERP

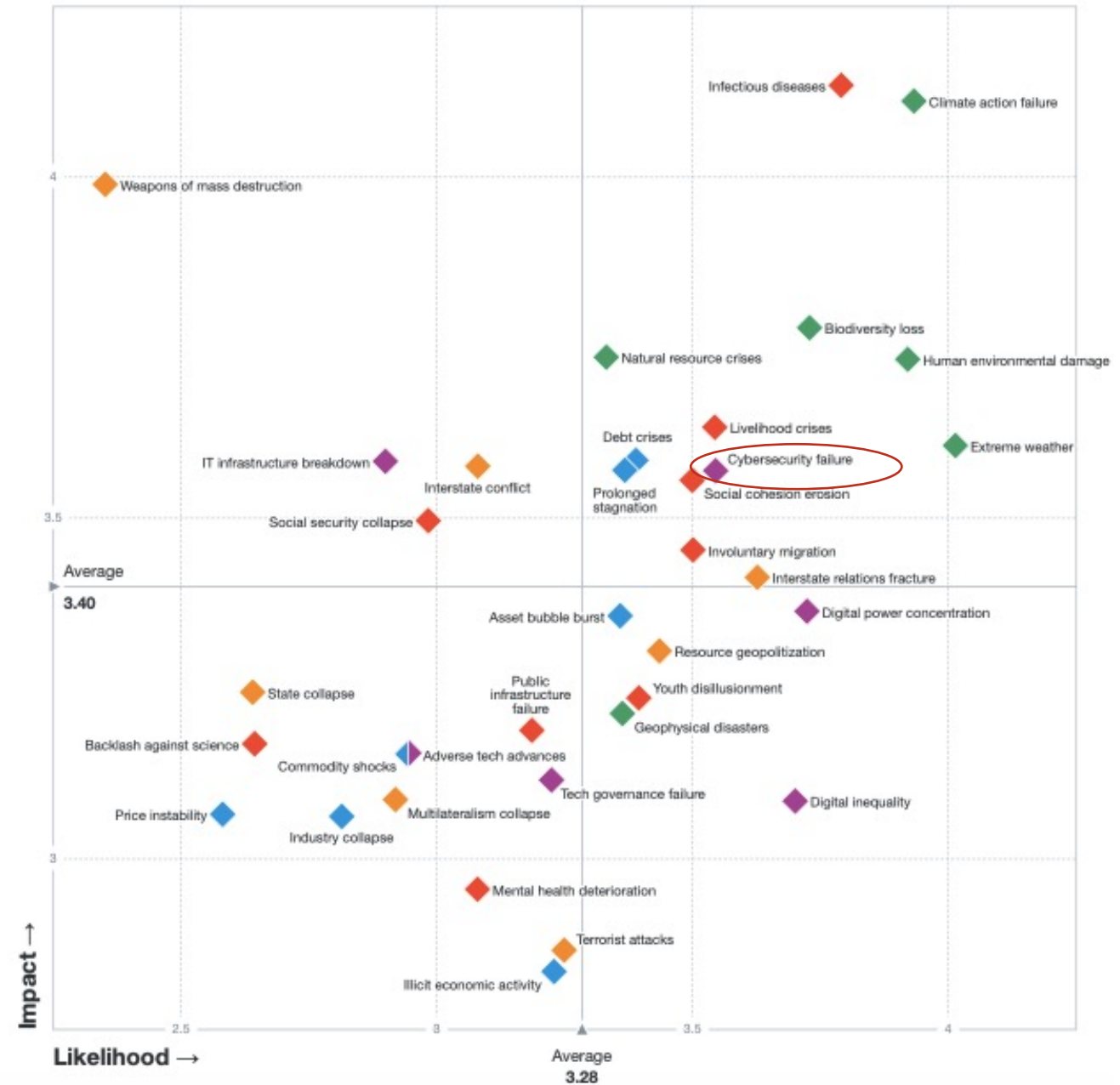
Best Cyber Resilience offering options worldwide.

The Business Problem

The risk landscape is constantly changing, and mitigating risk is a top board-level mandate.

Cybersecurity failures are in the right upper quadrant and among the top 10 risks in terms of likelihood and impact.

Our clients ask weekly about our cyber resilience options for critical data, including SAP workloads



Source: World Economic Forum, 2021 - The Global Risks Report

Cost of Data Breaches

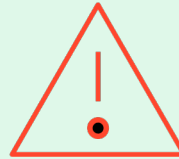
Global average total
cost of a data breach

\$4.24
Million

Key findings



38% share of lost business
per breach



25% less system cost where security
AI and automation were fully
deployed vs. not deployed



287 average number of days to
identify and contain a breach

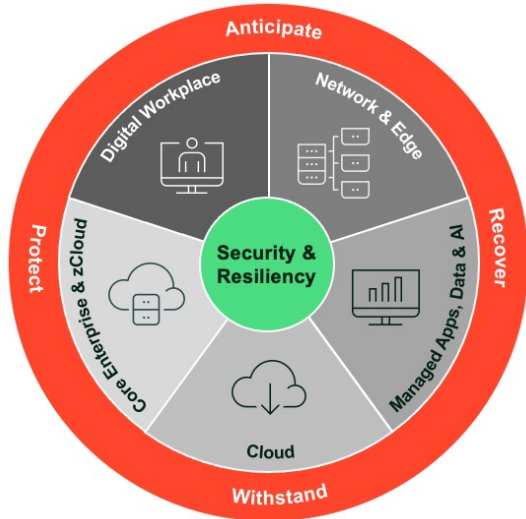
Kyndryl's approach for mission critical workloads

cyber resilience**

[sah-y-ber ri-zil-yuhns, -zil-ee-uhns]

noun

The ability to anticipate, protect against, withstand and recover from adverse conditions, stresses, attacks and compromises of cyber-enabled business.



Cyber Resilience Framework

Anticipate

- Assess and benchmark resilience maturity, gain visibility into significant threats and vulnerabilities, manage compliance
- Security, Strategy & Risk Management
- Offensive Security Testing
- Continuous Compliance Management
- Application Integrated Security

Protect

- Protect critical business data and applications in a security-rich infrastructure
- Digital Identity Services
- Data & Application Protection
- Cloud Security
- Zero Trust & SASE*
- Infrastructure Management
- SAP Protection

Withstand

- Discover and respond to a detected security incident
- SOC Services
- SAP Recovery Preparation
- Azure BLOB access by SQL & HANA Databases

Recover

- Mitigate impact of disruption with capabilities to automatically recover critical business processes and data
- Cyber Incident Recovery
- Managed Backup Services
- Hybrid Platform Recovery
- Data Center Design & Facilities

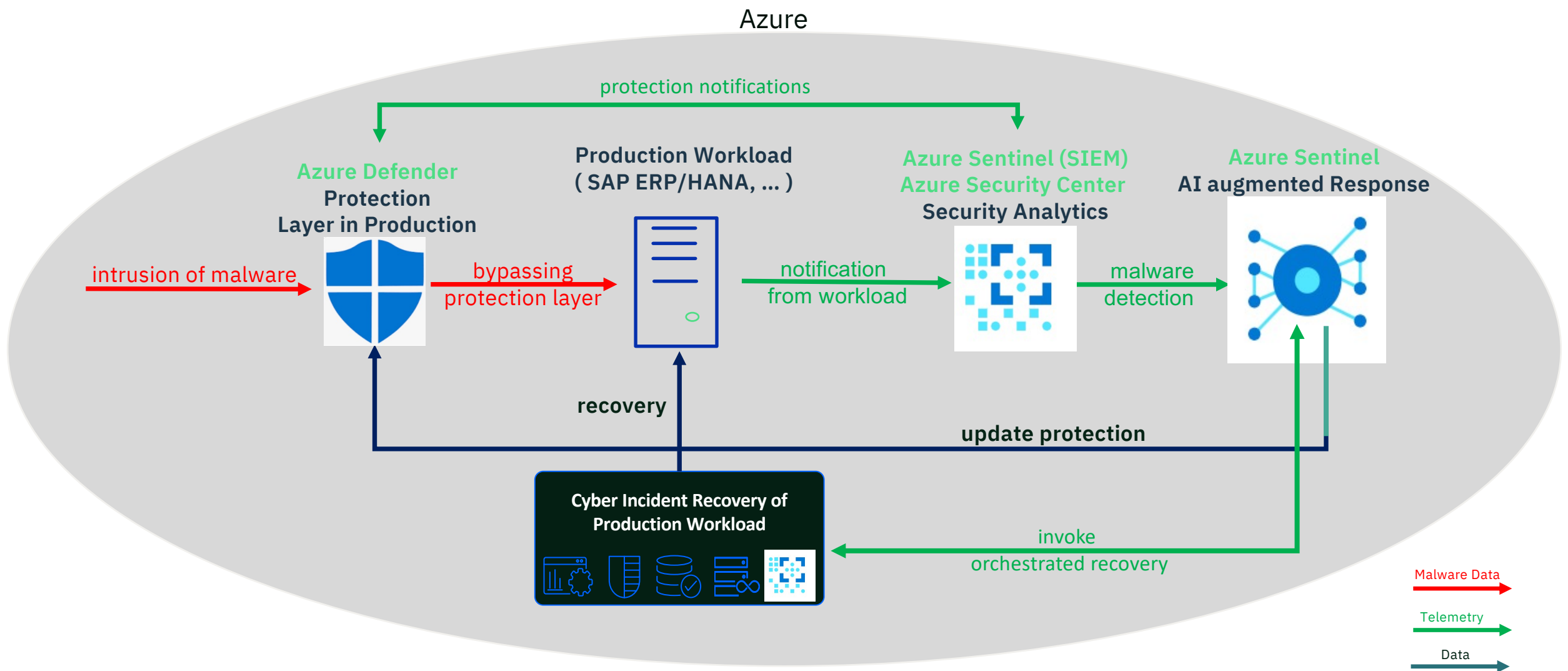
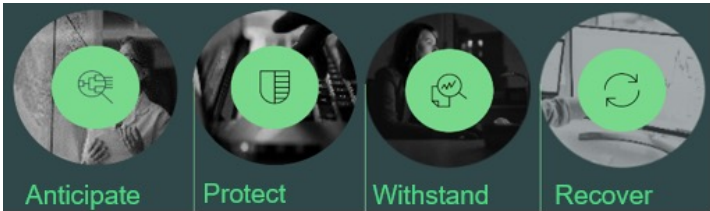
Cybersecurity



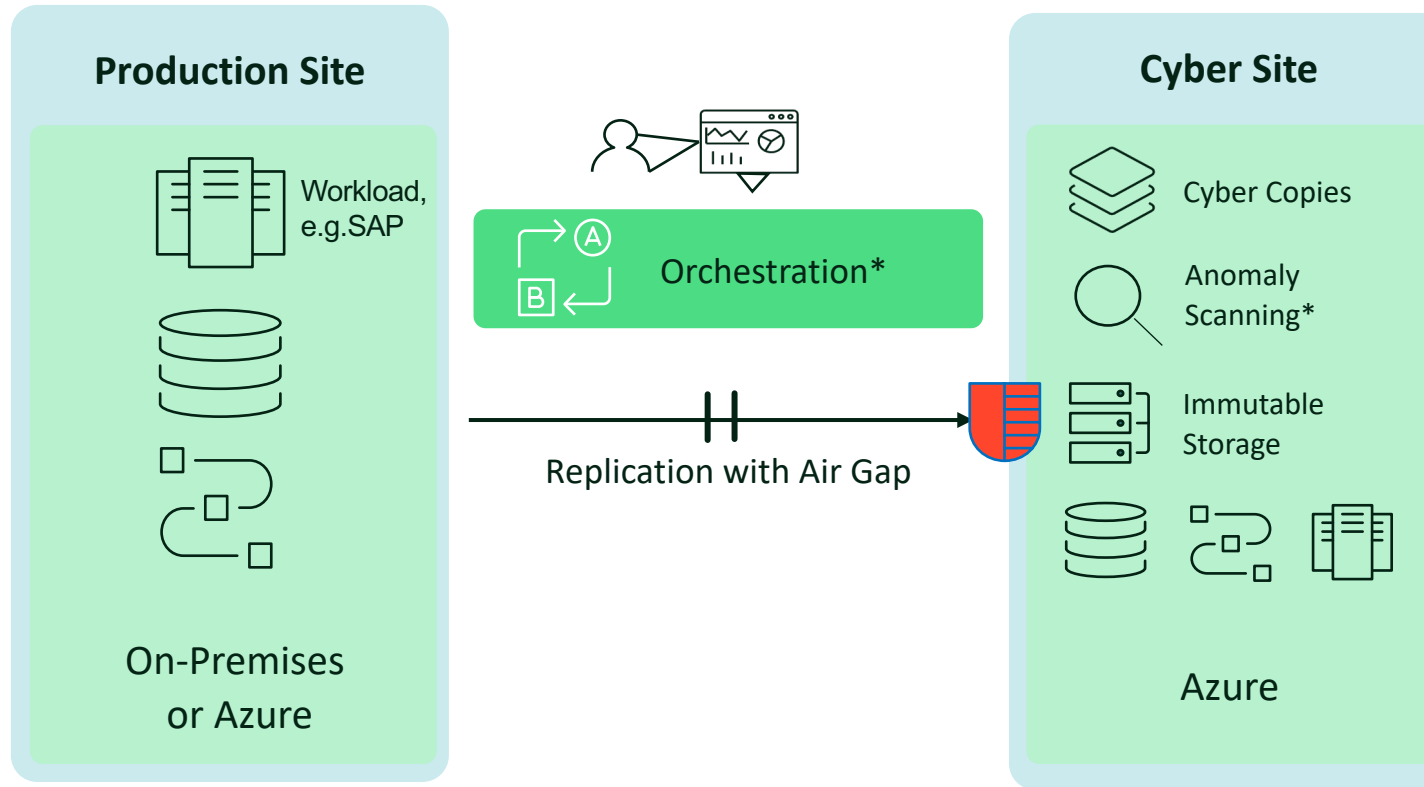
Recovery

SAP HANA & Mission Critical Workloads

Vision: Kyndryl-Microsoft CyberR + SAP on Azure

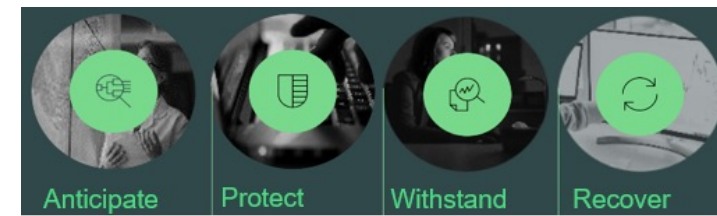


Cyber SAP on Azure - Solution Differentiators

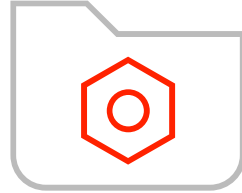


- Orchestration* and Automation provided by Resiliency Orchestration
- Air Gap orchestrated by Resiliency Orchestration
- Immutable Storage leveraged by Resiliency Orchestration
- Anomaly Scanning* build into Resiliency Orchestration
- SAP Integration, Management, and Security with Azure Services

Cyber Resilience for SAP on Microsoft Azure - Services



Kyndryl & Microsoft are leveraging their strategic partnership to enable an innovative cyber resilience solution for SAP clients on Azure.



Kyndryl SAP Services

SAP Managed Landscapes – Full 24/7 Operations (OS, DB, MW, SAP, Security, Compliance, Vulnerability Scans)

- Migration to Cloud – Upgrades to S/4
- Non-ERP Systems Integration & Mgt – OS/DB/Middleware
- Optional Hyperscaler PaaS & SaaS Extensions
- Optional SAP Data & AI Extensions & Projects



Kyndryl Security & Resiliency Services

Cyber Resilience for Microsoft Azure

- Cyber Resilience Maturity Assessment (CRMA)
- Backup as a Service
- Resiliency Orchestration Managed Service
- Disaster Recovery as a Service*



Microsoft Azure Services provided by Kyndryl

Cyber Security Services

- Microsoft Azure Virtual Machines
- Azure SAP HANA & non-SAP
- Azure Security Center
- Azure Sentinel – Azure Active Directory
- Azure Key Vault – Azure Defender
- Azure Site Recovery – Azure Storage

Service Families

Kyndryl SAP Services

Kyndryl Security & Resiliency Services

Microsoft Azure Services

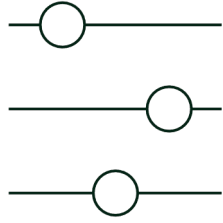
kyndryl

* To be developed

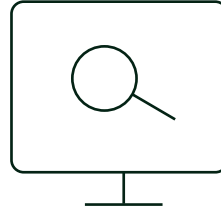
Benefits



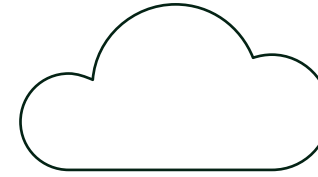
Significantly
reduced impact
of breach



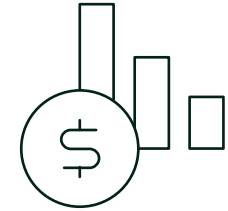
Highly reliable
and scalable



Integrated
application
management



Immutable cloud
storage



Reduced OPEX
and lost
productivity

Cyber Resilience aligning the outcome to the client need and recover from any outage including cyber-attacks.

- Up to 80% lower cost of business risk, lost productivity and revenue*
- Up to 80% less unplanned downtime**
- Up to 60% reduction in number of people
- Up to 80% reduction in switch and failback time***

Kyndryl – Who we are

30+ years of designing, building and managing IT operating environments

Our people:

90,000

Skilled professionals

247,000

Skills badges earned, including:

- 61,000 in cloud
- 43,000 in agile
- 43,000 in analytics
- 42,000 in AI
- 38,000 in Design Thinking

31,000

Vendor-recognized certifications in Microsoft Azure, VMware, Cisco, Red Hat, AWS and more


2.9M

Hours of training in first half 2021


Powering mission-critical technology systems across essential industries



5/5
top airlines
by revenue
passenger
miles (RPM)




45%
of passenger
cars made
by our customers



61%
of assets under
management by
the top 50 banks
managed by our
customers



4/5
largest
retailers



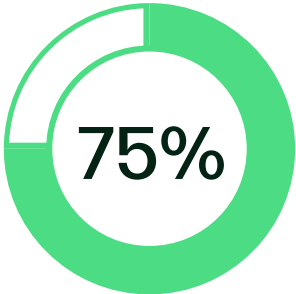
49%
of mobile
connections
managed by
our customers

*2019 numbers

Empowering thousands of customers


4,000

Global customers,
including:




...of the Fortune 100
and more than half
of the Fortune 500


Providing undisputed leadership




6.1M mainframe
installed MIPs




270K network devices
managed




5,200+ WAN
devices managed




3.5M LAN
ports managed



67K+ VMware systems
managed



14K+ SAP
instances managed



215K application instances
managed – OS, DB, MW

ADAI Managed Systems



A \$19.4B technology services company with 90,000 skilled practitioners, we design, build, manage and modernize the mission-critical technology systems that the world depends on every day.

Known for

- Being trusted by SAP customers for over 30 years
- Deep domain expertise: Composable ERP strategy across all clouds
- Position as SAP market leader by industry analysts
- Disruption strategy leader – Cyber event solutions
- Over 1000 SAP clients managed, with over 300 in the cloud

Added value as Kyndryl

- Unleashing our full potential with partners to deliver exponential outcomes for customers
- Expanding investments in the skills and innovation our customers need
- More nimble and responsive with decision-making close to customer