



pSeries Modernization to Azure



Why customers choose Kyndryl with Microsoft

Modernizing and managing the world's mission-critical systems

Our Customers

We work in partnership with thousands of customers, dedicated to ensuring that each achieves its peak digital performance

>4,000
global
customers

Including

of the Fortune 100;
more than half of
the Fortune 500

~60%

Providing undisputed leadership



6.1M mainframe
installed MIPS



3.5M LAN
ports managed



300K network
devices managed



5,200+ WAN
devices managed



67K+ VMware
systems managed



14K+ SAP
instances managed



3.5+ exabytes of customer
data backed up annually

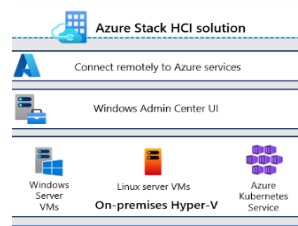
Enterprise AI Services



Azure VMware
Solution (AVS)

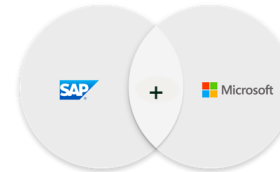


Mainframe
Modernization



Azure Stack
HCI + ARC

SAP on Azure



Digital Workplace
Services (DWS)



Cyber Incident
Recovery



Kyndryl Services



Cloud

Delivering seamless advisory, migration, modernization, and management services integrated with Microsoft Cloud



Core Enterprise & zCloud

Manage mission-critical workloads seamlessly by modernizing mainframes to handle high-volume, always-on computing with Microsoft AI Cloud



Digital Workplace

Accelerate hybrid work and enable collaboration from anywhere with strategy, design, architecture and implementation of Copilot for M365



Application, Data & AI

Providing full application platform hosting and expert assistance for application modernization and GenAI on Microsoft Azure



Network & Edge

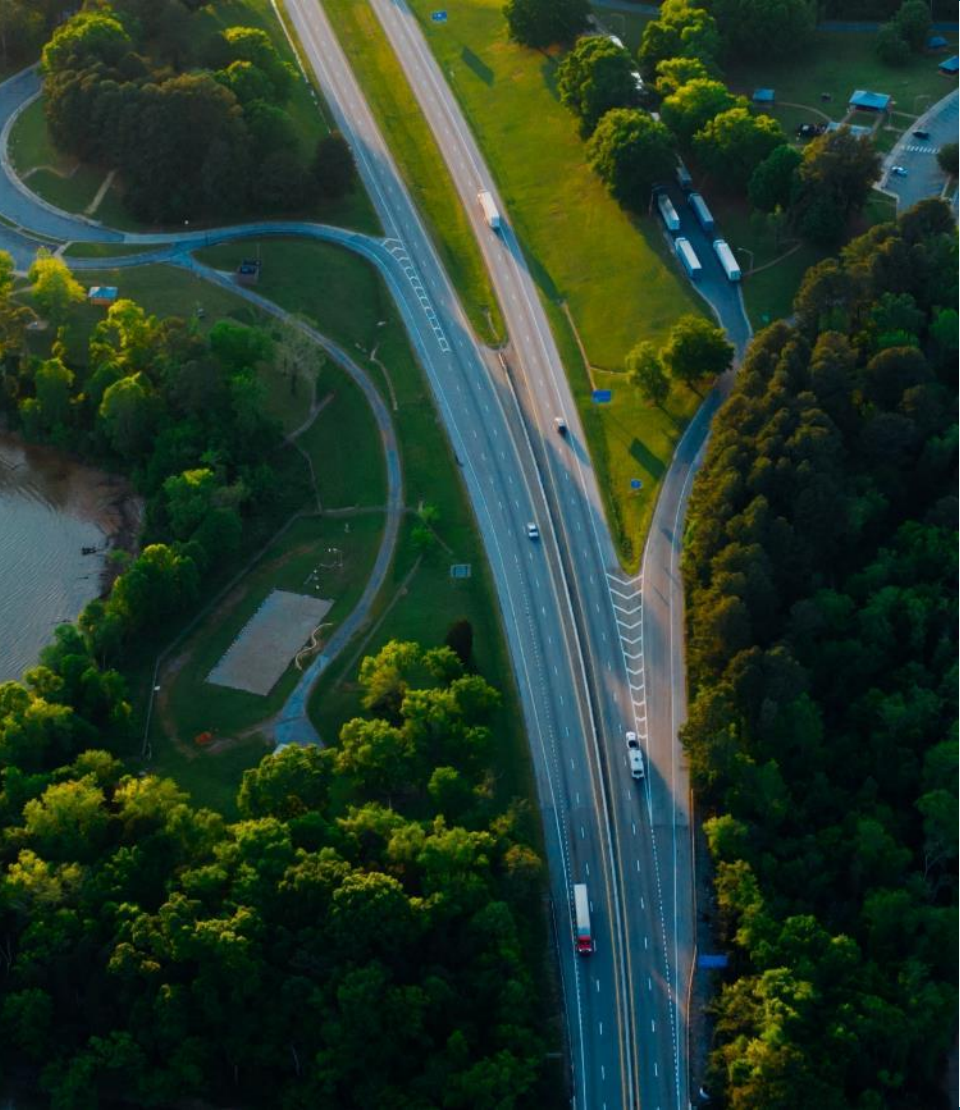
Provides unified Network Services for Microsoft Cloud and data center connectivity



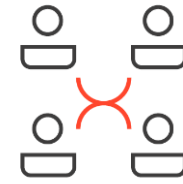
Security & Resiliency

Providing full application platform hosting and expert assistance for application modernization

Kyndryl advances the vital systems that power progress



Kyndryl brings talent, expertise, and a proven service design to help you co-create solutions that deliver innovative customer experiences



Rich experience and deep expertise through our **people**, best-practice **frameworks & IP**



Reliable services across hybrid/multicloud environments with **minimal business disruption**



Innovate with **Kyndryl Bridge** digital integrations & co-create with designer-led **Kyndryl Vital** teams

kyndryl bridge

An open integration platform delivering IT solutions by leveraging Kyndryl's core strengths, data-driven insights and expertise

kyndryl vital

Our designer-led co-creation experience that brings partners and customers together to solve complex business problems

Kyndryl offers an integrated portfolio of services to help you unlock the full value of your applications



Modernize for efficiency and growth

Modernize apps, data, and infrastructure to be more responsive to business needs

Key goals

- Faster time to market with new products and services
- Flexibility to use open, scalable and adaptive platforms
- Improved data trust and governance
- Secure scalability to meet organizational growth priorities
- A more energy-efficient technology stack
- A cloud strategy aligned with business priorities

Your challenges

- Complex, high-cost legacy infrastructure and networks
- Containerized, distributed, and latency-sensitive apps
- Insufficient automation
- Data sovereignty concerns
- Sustainability struggles
- Cloud strategy confusion



How Kyndryl helps you **Modernize**

- Integration expertise to simplify complex IT environments
- Agnostic alignment of workloads to platforms for compliance and performance
- Unique solutions with the providers in your ecosystem to accelerate transformation
- Proven hybrid cloud and automation strategies that speed deployment and improve resiliency
- Modern management of ongoing mission-critical operations for efficiency and security

Wherever you are on your transformation journey, we'll meet you there

Kyndryl offers solutions to address common application development challenges

Experts in delivering

application migration and modernization projects of various sizes and complexities across cloud and hybrid environments

Consistent and repeatable

delivery experience derived from expertise in executing similar projects utilizing standard and repeatable processes

Broad range of technologies and tools

to deliver client engagements, including cloud-native and third party

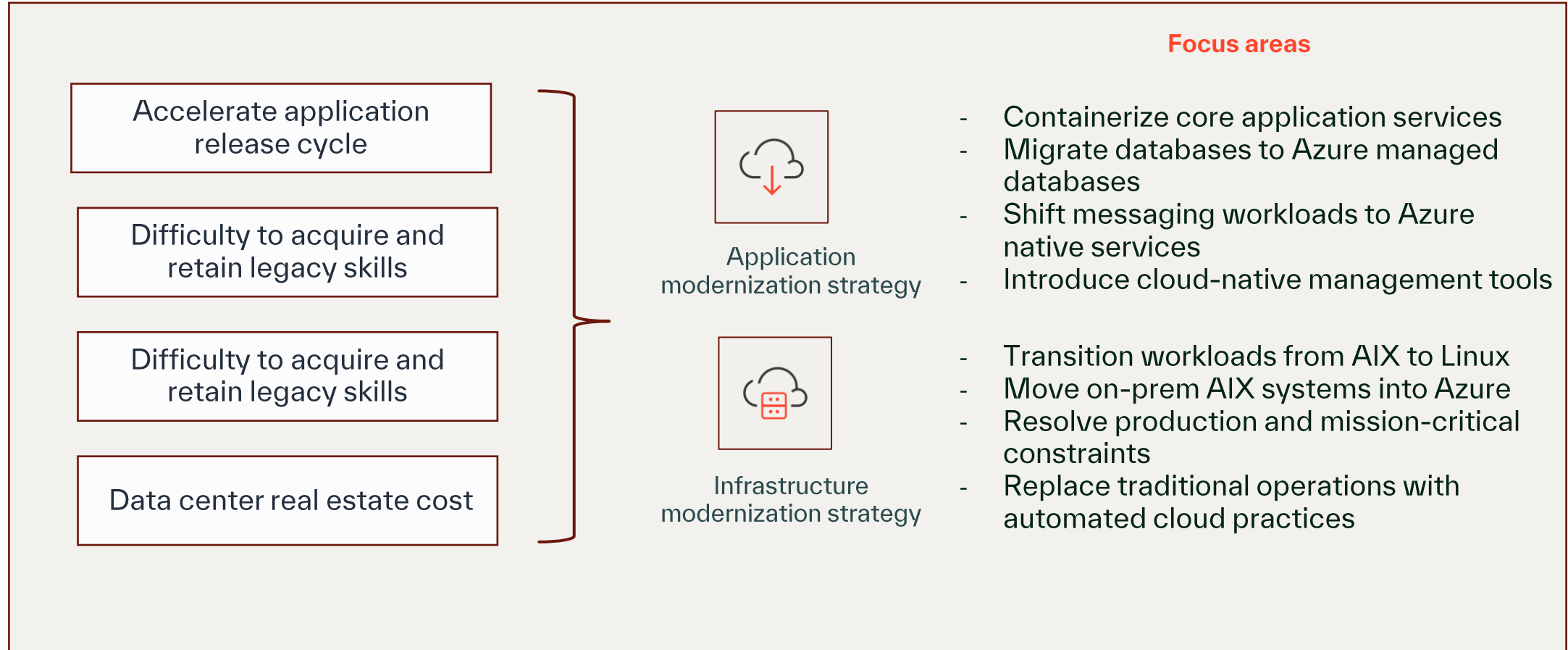


Thought leadership and innovation to solve customer challenges based on numerous client engagements delivered

Agile delivery and continuous improvement to maximize lessons learned, minimize risks and manage costs

When and why to modernize pSeries AIX workloads

Organizations modernize pSeries systems to increase agility, future proof operations and stay competitive in a fast-changing market:



Modernization journey: Skytap and non-Skytap (Azure-native approaches)

Kyndryl provides end-to-end migration and modernization services for pSeries AIX to Azure, leveraging both Skytap on Azure and Azure-native platforms based on client needs. This service provides a structured transformation strategy tailored to mission-critical workloads, including:

- Java-based applications (WebSphere, WebLogic, Tomcat)
- Messaging systems (IBM MQ)
- Databases (IBM DB2, Oracle)

Our comprehensive services include:

Skytap on Azure: Seamless migration of pSeries AIX workloads to Skytap on Azure for clients seeking minimal application changes, fast datacenter exit, and flexible cloud scalability

Non-Skytap (Azure native): Re-platform, refactor and rearchitect pSeries AIX workloads directly to Azure-native services enabling deeper transformation, cost savings and future-proofing

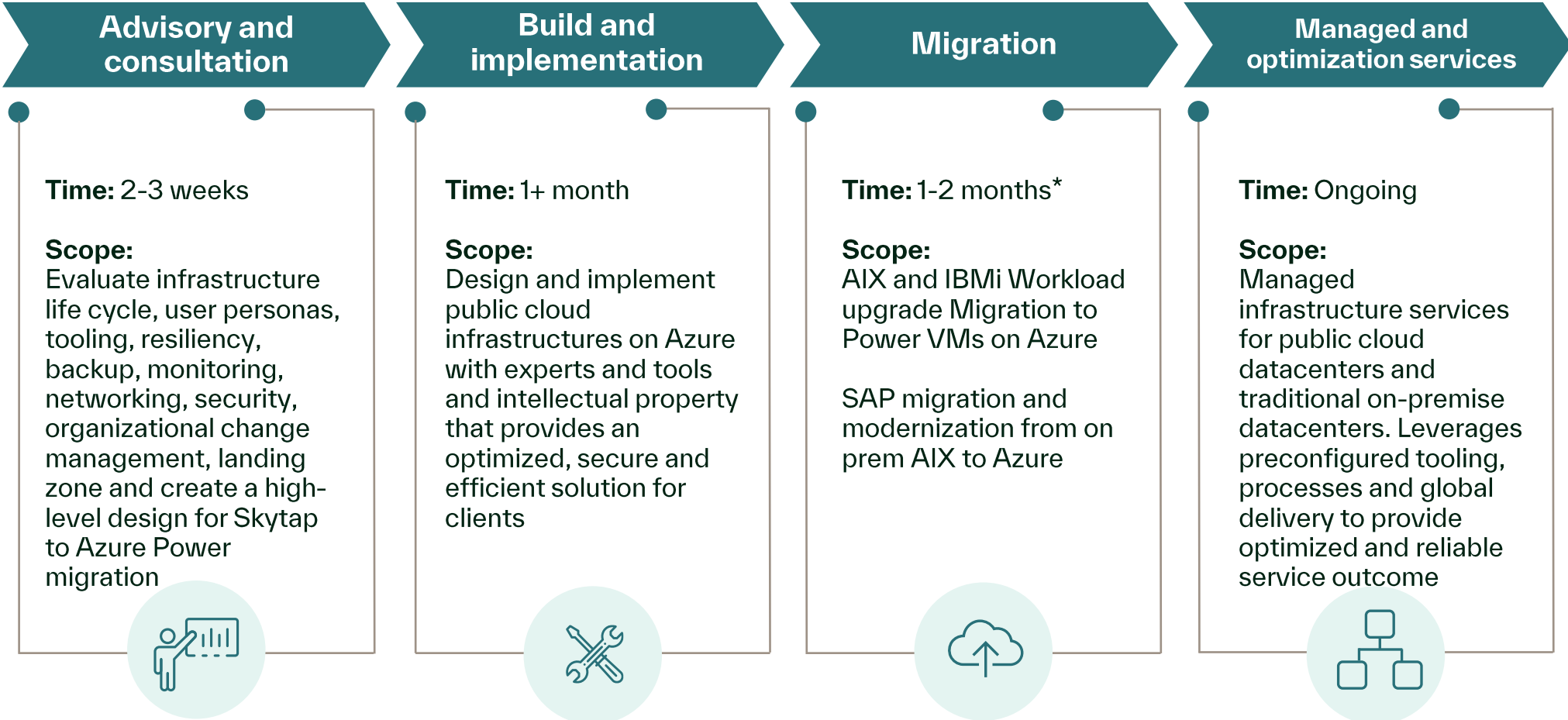




Skytap on Azure

Kyndryl's migration services to Skytap on Azure

End-to-end Azure migration journey



* Assumed an environment of 50 LPARs and up to 100TB of storage

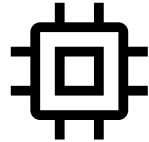
pSeries to Skytap on Azure use cases

Key business drivers for IBM pSeries migration to Microsoft Azure



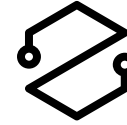
Data center exit

- Replicates data center in Skytap
- Scales on demand
- Reduces capital expenses
- Moves to consumption based operational expenses



Hardware refresh avoidance

- Helps run business critical applications in Skytap with minimal changes
- Allows customers upgrade at their own pace



DevOps and application modernization

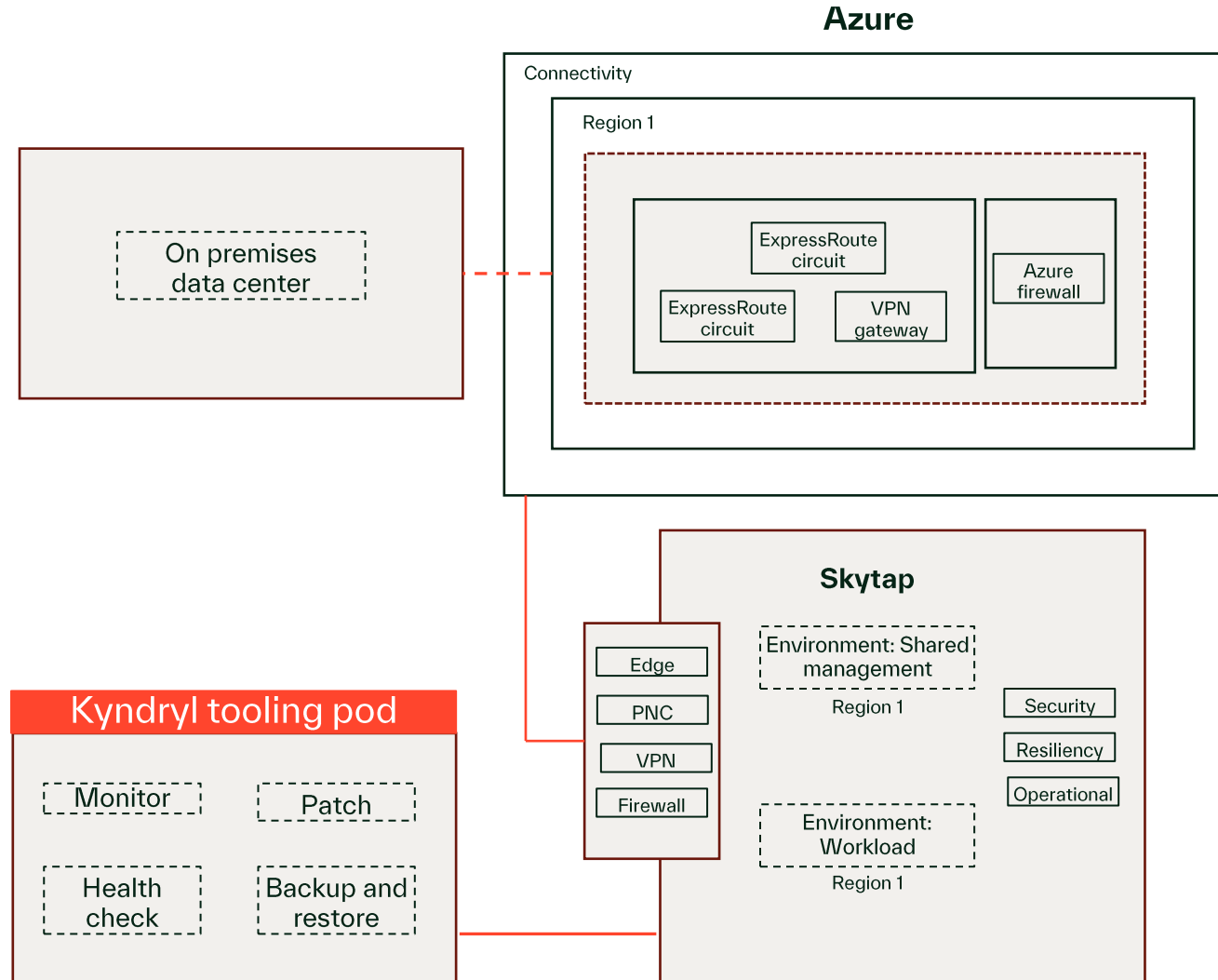
- Allows self-service and automatic environment provisioning
- Accelerates innovation by connecting existing Skytap applications to Azure



Disaster recovery and high availability

- Protects critical business operations dependent on on-premise applications with flexible disaster recovery and high availability solutions running in Skytap

High-level architecture: Skytap on Azure



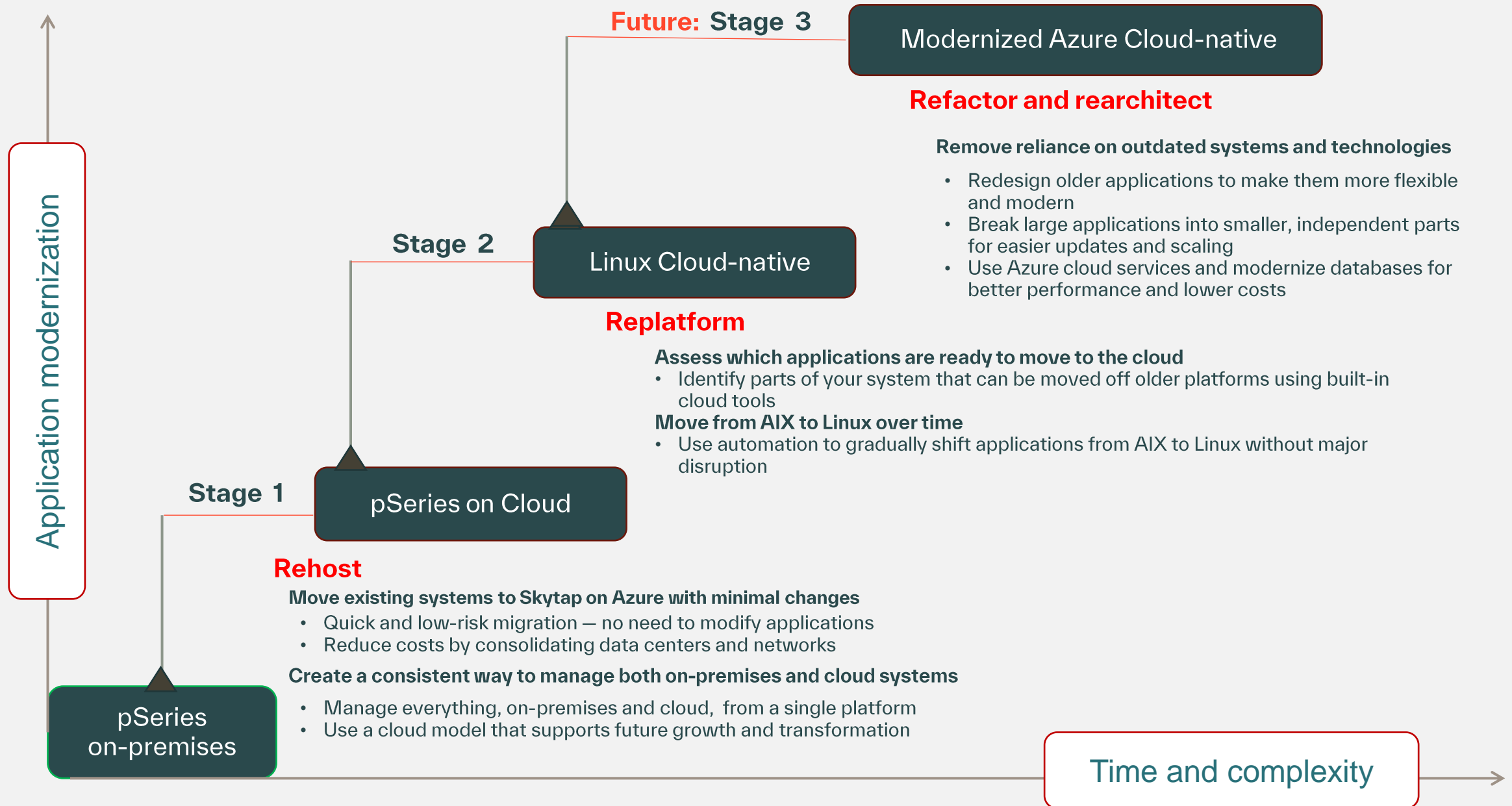
Key architecture components and capabilities:

- Single or multi-environment deployment within Skytap on Azure
- ExpressRoute connectivity between Skytap and Azure environment
- Shared management environment to host shared services
- Proposed architecture is suitable for:
 - Production and DevTest
 - Migration
 - Disaster recovery
 - Managed operations



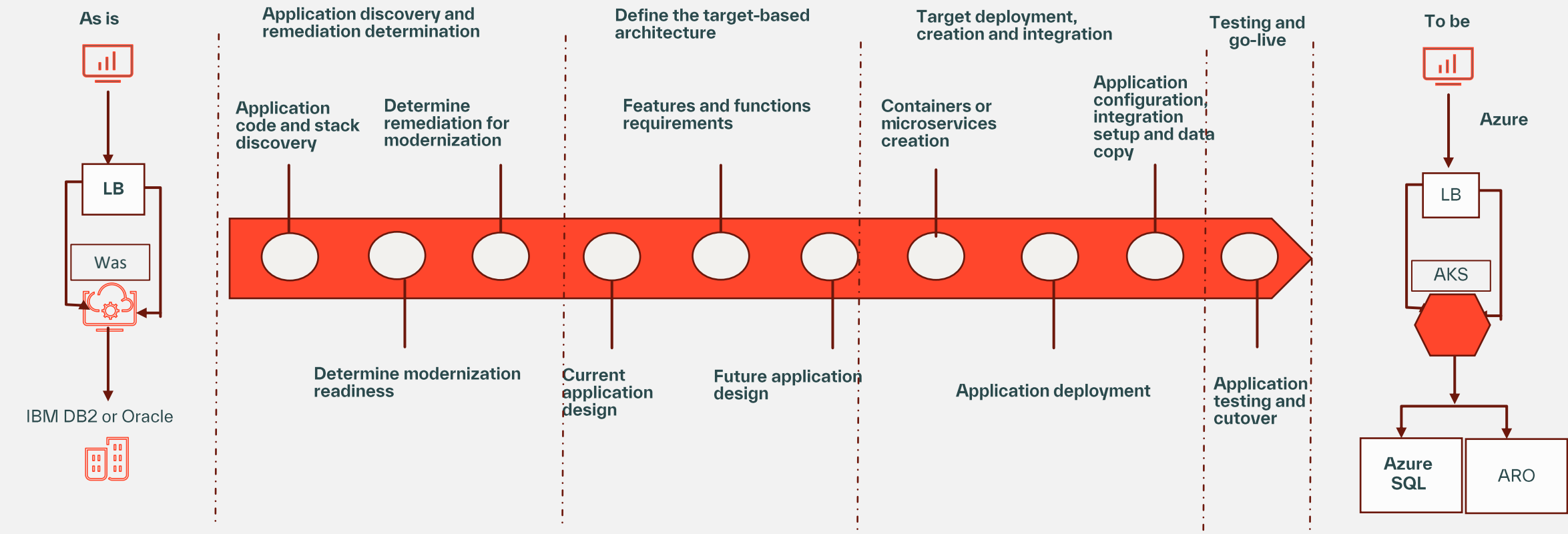
Non-Skytap (Azure-native)

Evolution from pSeries to Azure Cloud-native architecture



Transforming legacy AIX applications for Azure cloud-native environments

An application-led approach to modernizing workloads running on AIX requires close collaboration between Kyndryl specialists, application and business owners.



Kyndryl's AIX migration and modernization services for Azure Cloud-native architecture

Kyndryl recommends an application-led approach to modernizing workloads running on AIX

Source (On premises)

- Java application
- IBM WebSphere
- Tomcat
- Oracle Web logic
- IBM MQ
- IBM DB2
- Oracle

Target: Azure Cloud

- Java on Azure VM and Azure app services
- Websphere or Open Liberty on Azure AKS or Open Liberty on Azure Redhat OpenShift
- Tomcat on Azure App Services and Azure AKS
- Web logic on Azure VM
- MQ on Azure app services, Azure logic apps, Azure Bus services
- Azure SQL database
- Azure Database for PostgreSQL

Key solution features and benefits

Application modernization:

- Refactor and containerize legacy applications for deployment on Azure Kubernetes Service, Azure Red Hat OpenShift or Azure Container Apps, with integrated continuous integration and deployment pipelines
- Migrate messaging platforms like IBM MQ to Azure Service Bus, Event Grid or Kafka, and enable scalable provisioning using infrastructure-as-code tools

Database modernization:

- Migrate IBM DB2 and Oracle databases to Azure SQL, Azure Database for PostgreSQL or Oracle on Azure, with data replication and transformation using Azure DMS and Schema Conversion Tool
- Ensure high availability, disaster recovery and compliance with Azure Site Recovery, Azure Backup and geo-replication



The Very Group

Skytap on Azure: Legacy Workload Modernization

The Very Group, based in London, is a unique digital business that combines online retail and flexible payments. With over 4.4 million customers and an annual revenue of £2.15bn, The Very Group has become the leading premier digital retail and payments provider for UK.

Business Challenge

The organization's reliance on aging IBM Power Systems infrastructure created significant operational risk and escalating maintenance costs, necessitating an urgent but complex migration to Azure cloud without disrupting critical business applications or requiring extensive redevelopment of legacy workloads.

Transformation

- Partnered with Skytap to enable seamless migration of Power workloads to Microsoft Azure
- Conducted comprehensive workload assessment identifying 140 critical systems spanning AIX, Linux and Wintel environments
- Implemented hybrid management approach combining core service management toolset with cloud-native capabilities
- Deployed Kyndryl Bridge and AIOps to enhance operational visibility and automate infrastructure management

Results

- Reduced infrastructure expenditure through optimization
- Transitioned 25% of applications to Azure with no performance impact
- Achieved performance improvements in some migrated applications
- Successfully initiated rehosting as first step toward application modernization
- Maintained critical operations throughout migration process
- Minimized transition risks through proven migration methodology
- Built internal cloud capabilities through structured training



Benefits of Kyndryl's Azure migration and modernization services

Kyndryl can help customers assess their pSeries AIX Workloads and provide a migration and modernization path to Azure



Fast-tracked migration (Skytap) for immediate cloud benefits or a gradual modernization for long-term innovation



Robust security frameworks ensure regulatory compliance and protection against threats



Streamlined management through Azure-native tools and automated operations



Enables agile development, continuous integration and deployment, and easy integration with emerging technologies like AI and machine learning



Optimized resource utilization and lower operational costs by eliminating legacy hardware dependencies



Kyndryl's end-to-end expertise minimizes migration risks and ensures a smooth transition

Thank You