



Kyndryl Distributed Cloud Offering for Microsoft Azure Stack HCI with Azure Arc

Agenda


- 01 Why Kyndryl?
- 02 Customer challenges leading to a distributed cloud operating model
- 03 Introduction to Kyndryl offering for Microsoft Azure Stack HCI with Azure Arc
- 04 Common industry use cases
- 05 Next steps

Why Kyndryl?

Kyndryl was spun-off of IBM IT infrastructure services in 2021

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

 **400,000**
years of engineering experience

 **31,000**
Vendor-recognized certifications in Microsoft Azure, VMware, Cisco, Red Hat, AWS, and more

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

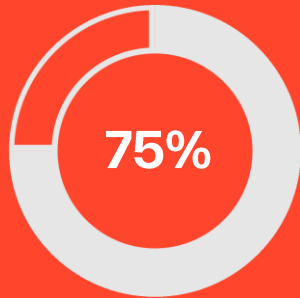
 **4/5**
largest retailers

 **49%**
of mobile connections managed by our customers

Empowering thousands of customers

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

4,600
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

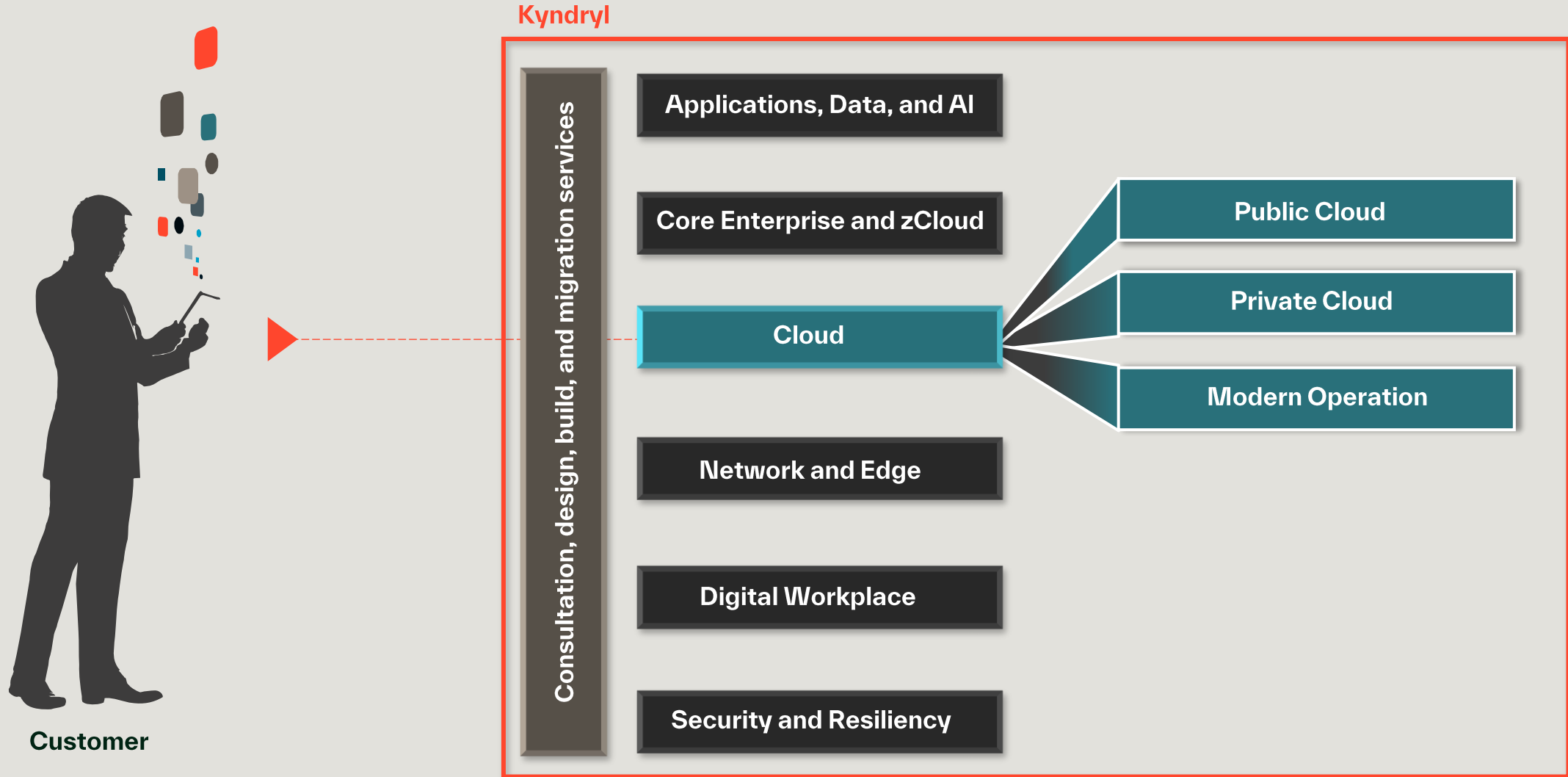
 **3.5M** LAN ports managed

 **67K+** VMware systems managed

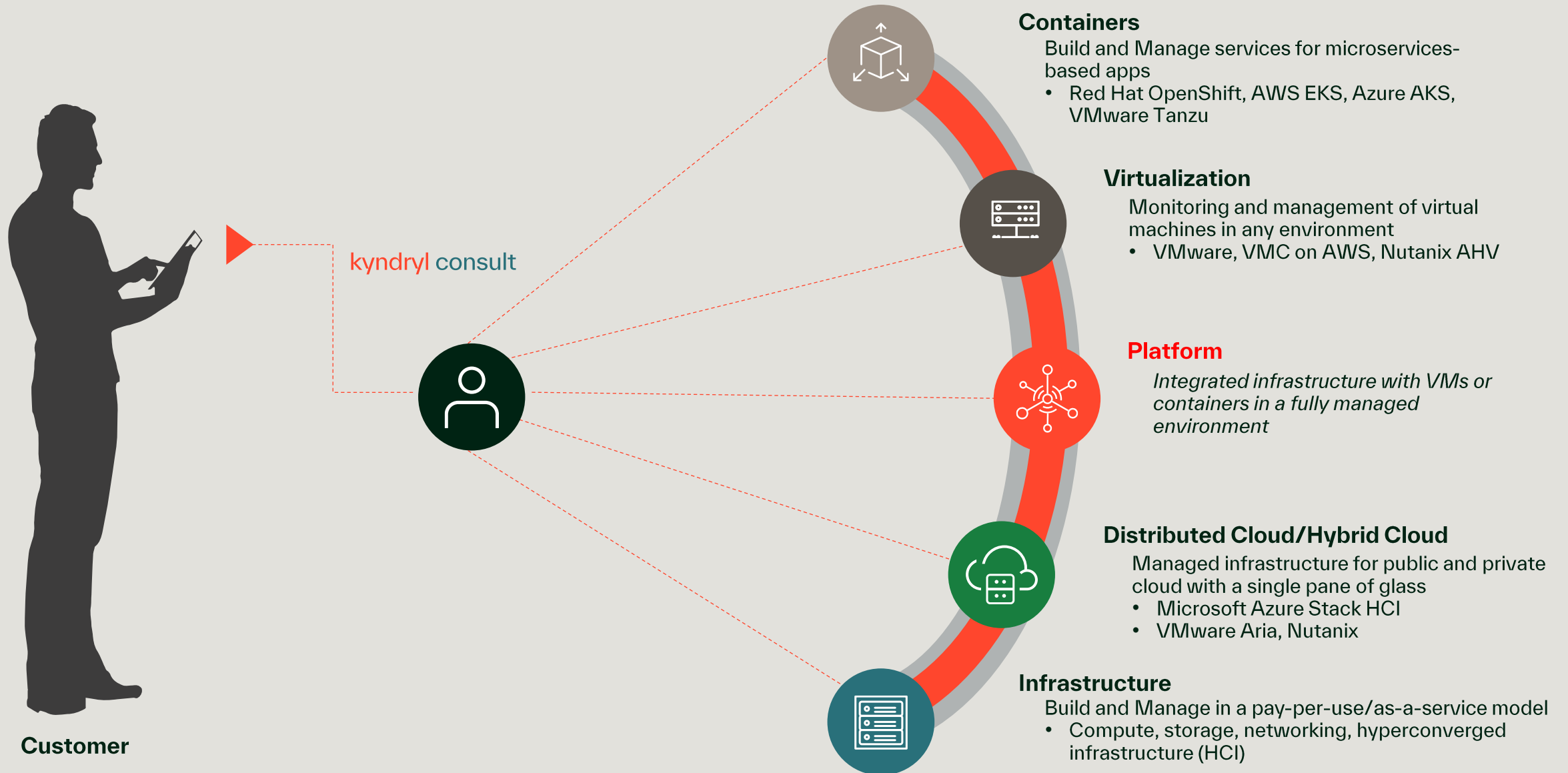
 **14K+** SAP instances managed

 **3.5+** exabytes of customer data backed up annually

Kyndryl practices and services stack view



Kyndryl Services for Private Cloud

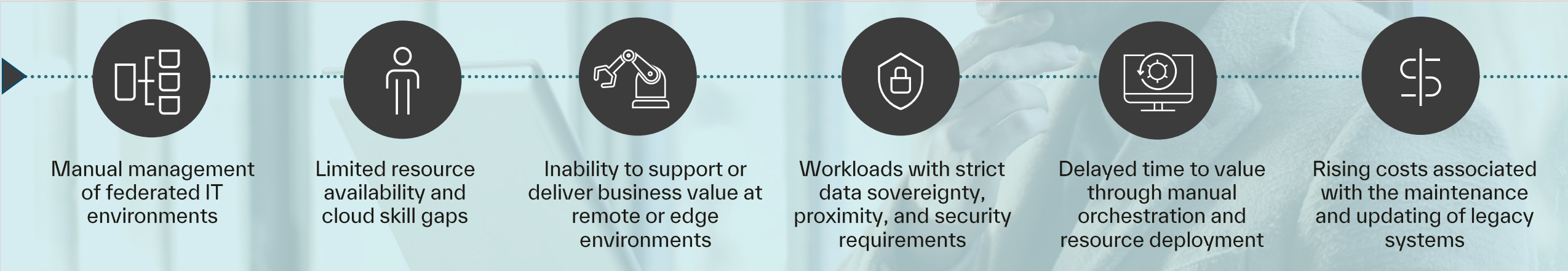


Introduction to Kyndryl's offering for Microsoft Azure Stack with Azure Arc HCI



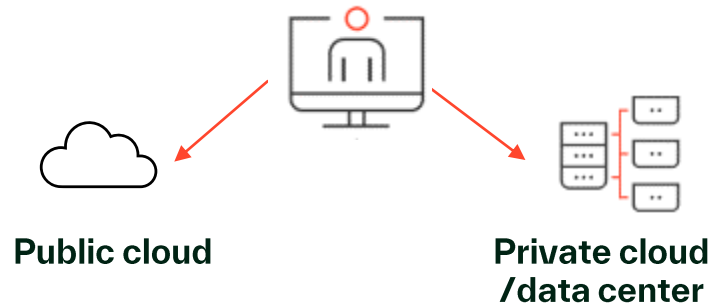
Customer challenges leading to a managed distributed cloud

"A distributed cloud is an architecture where multiple clouds are used to meet compliance needs, performance requirements, or support edge computing while being centrally managed from the public cloud provider." — VMware



Comparing cloud operating models

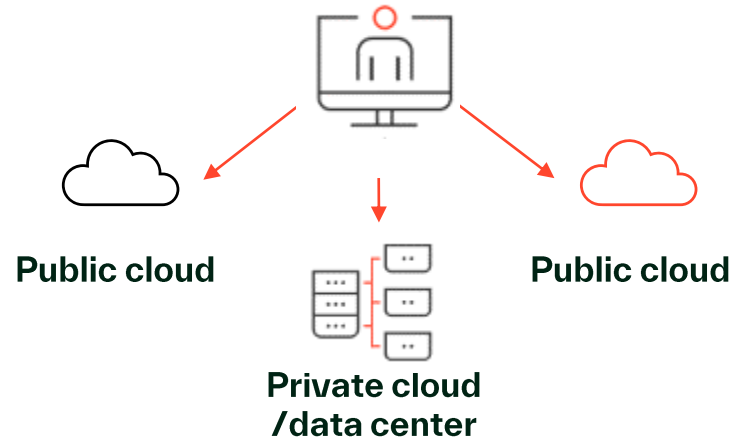
Hybrid Cloud



- Scale as necessary
- Leverage cloud innovations and tools
- Facilitate cloud journey while keeping assets on-premises

Complexity ++

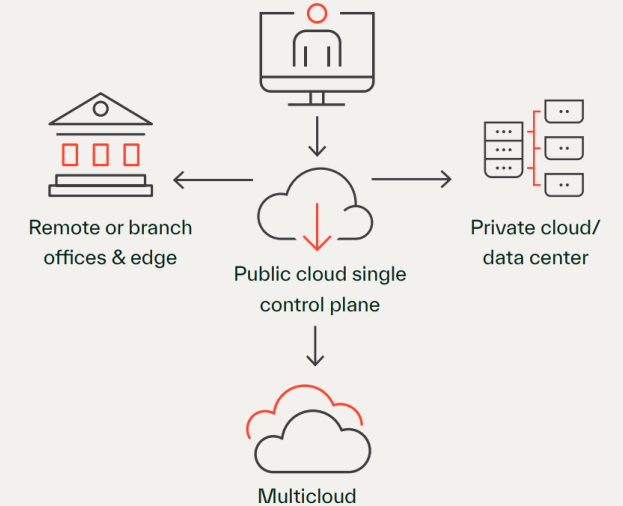
Multicloud



- Avoid vendor lock-in
- Adhere to geographical and location-based requirements
- Gain best-of-breed cloud services and technologies
- Take advantage of best-in-class costing

Complexity ++++

Distributed Cloud



- Leverage cloud-native tools and ways of working
- Use a single pane of glass to monitor/manage workloads across all environments
- Implement consistent security and governance policies
- Support remote and edge use cases
- Access and easily deploy additional Azure services on-premises

Complexity +

Kyndryl Distributed Cloud for Microsoft Azure Stack HCI with Azure Arc

What we offer:



Remote office/edge deployment

Small solution (1–3 Azure Stack HCI nodes)

Dell or Lenovo Microsoft-certified hardware

Azure Arc Services



Regional office/data center

Scalable solution (4–16 Azure Stack HCI nodes per cluster)

Dell or Lenovo Microsoft-certified hardware

Azure Arc Services

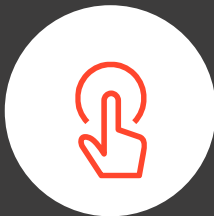
Customer value:



Leverage single-pane-of-glass management of distributed IT assets to reduce administrative complexity



Meet business-critical needs by deploying or modernizing remote and edge environments



Get granular control of infrastructure and data for improved security and performance

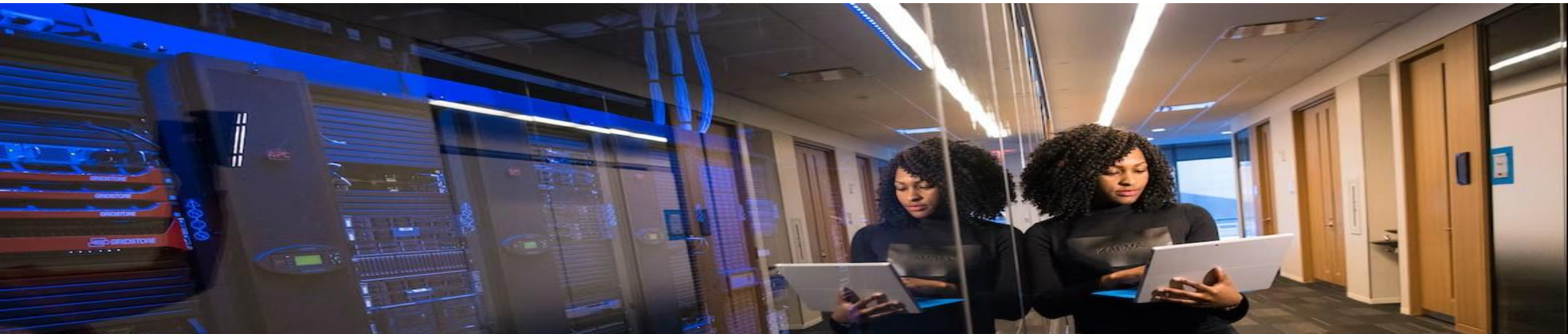


Reduce operational and administrative tasks to empower teams to focus on high-value activities



Pay for only the resources you need by transforming legacy infrastructure

Critical capabilities and features



Microsoft Azure
Arc included



Microconfigurations
for edge deployments



Azure Kubernetes
Service



Azure Arc-Enabled SQL
Managed Instance



Microsoft Azure
Backup



Azure Virtual
Desktop



Azure Arc Resource
Bridge for VMware vSphere



Access to Azure
Marketplace

What we provide



Microsoft-certified Dell hardware



Design, plan, build, migration, and management consulting services



Industry- leading delivery and support teams. Integration and management of on-premises, multicloud, remote office, and edge deployments



Support of your modernization journey through the implementation of incremental Azure Stack services, such as backup, virtualization, containers, VDI, and database



Additional support of your modernization journey through access to additional Kyndryl services: Digital Workplace, Data & AI, Network & Edge, and Applications

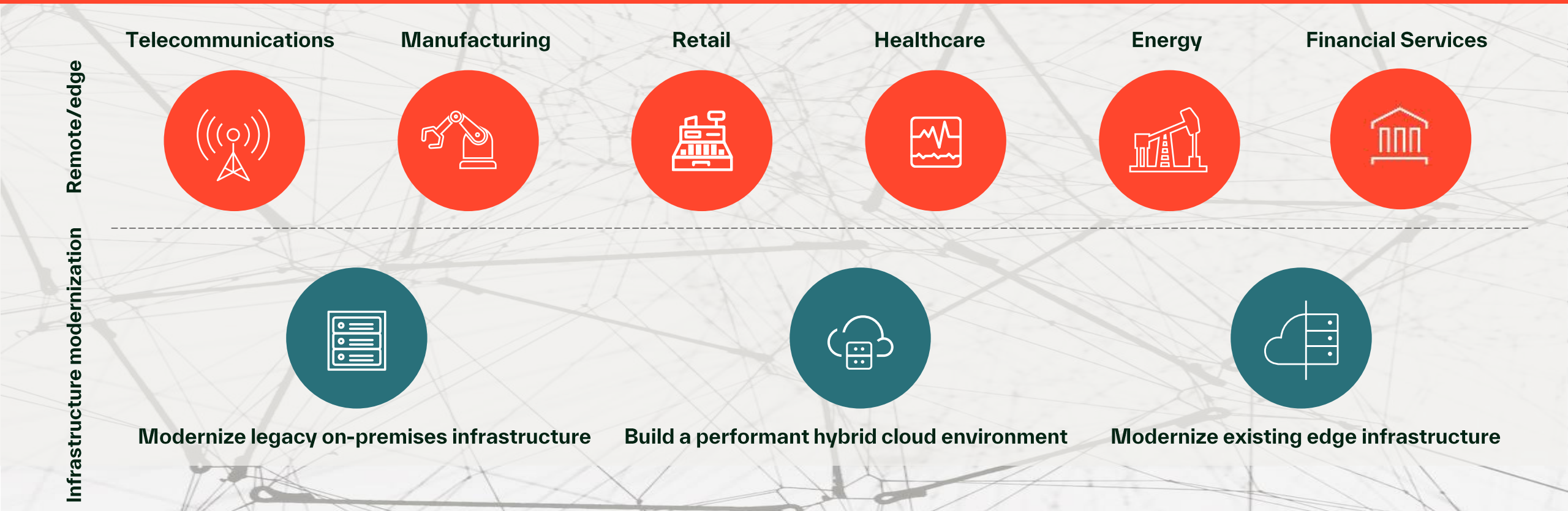


Industry use cases



Verticals with high-propensity alignment

“It’s imperative that enterprises prioritize a distributed cloud-based model as the default and future-proof edge solution by relying on partnerships and ecosystems over a single-vendor approach.” — John McArthur, Senior Analyst, Gartner



A recent Virtana study found that a staggering 72% of respondents report having had to bring applications back on-premises after migrating them to a public cloud due to performance issues, technical complexity, or unexpected costs.

Customer use case: Vodafone opens UK's first edge innovation lab

Transform the customer experience where network, cloud, and new infrastructure technologies converge



Challenges:



Differentiating in a competitive market and providing a positive customer experience



Creating demos of existing apps, such as visual inspection, so customers can test latency

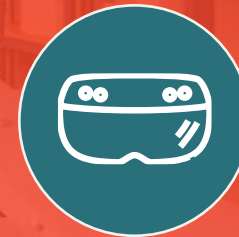


Enabling predictive maintenance capabilities through real-time apps like AR, drone, and virtual reality

Outcomes:



Increasing sales opportunities through the ability to demo existing applications via edge computing model



Improving user experience through secure and reliable service, using AR and virtual reality



Monitoring drone traffic to prevent damage to 5G and other infrastructure

Manufacturing use cases

- Remote use case
- Modernization use case

When used in maintenance and repair, AR software can help accelerate activities by **30%** and improve work quality by **90%**.



Build connected factories that run manufacturing software and gather real-time machine data for analytics related to product quality and predictive maintenance



Deliver augmented reality software to facilitate real-time maintenance and repair (ARMAR)



Run video systems for hazard prevention, improved safety measures, and to ensure quality control



Modernize legacy infrastructure creating a data pipeline from the edge to analytics services where data can be converted into business insights



Retail use cases

- Remote use case
- Modernization use case

40% of shoppers would be willing to pay more for a product if they could experience it through augmented reality.



Deliver innovation with a connected store. Introduce smart fitting rooms, mobile point of sale (mPoS), self checkout, smart asset tracking, electronic shelf labels, motion-based lighting, etc.



Run PoS, inventory, merchandising, and digital signage software



Run security monitoring hardware and software



Create a data pipeline from the edge to data warehouse or analytics platforms to evaluate the impact of promotions, reallocate inventory, monitor buying trends by locale, etc.



Banking financial services and insurance use cases

38% of bank customers still prefer branch offices for all their banking needs.

- Remote use case
- Data compliance requirements



Addressing compliance (GDPR) challenges by bringing customer-facing workloads back on-premises



Running small clusters for new smart-branch technologies such as interactive teller machines, video conferencing, and banker tablets



Running small clusters for productivity applications or powering VDI for branch employees



Running security hardware and software with AI for image-recognition software



Healthcare use cases

There are **48,000** hospitals and non-emergency clinics in the US alone.

- Remote use case
- Data compliance requirements



Running small clusters for productivity applications or thin-client workloads for administrative staff as healthcare is projected to see the largest growth for VDI



Running clusters for gathering diagnostic data, x-ray images, or other patient data as a gateway to the cloud



Building connected clinics that run niche software to power patient translation terminals or check-in tablets, or serve to gather real-time machine data for predictive maintenance analytics



Providing continuous data backup and replication to the cloud for compliance and regulatory requirements



Energy use cases

There are **1,716** total oil refinery on-shore and off-shore exploration sites in the world.

- Remote/branch-office computing
- Modernization



Running small clusters to deliver operational IoT data for predictive maintenance, hazard, and safety management



Running small clusters for gathering sensor data at remote sites for transfer to high-performance computing (HPC) clusters for analysis



Powering graphic-intensive VDI for the visualization and conversion of HPC data into business insights for executive review



Running larger clusters for modernizing legacy infrastructure to support workloads such as application development and data management



Next steps



Next steps: Preparing for your modernization journey

1. Review these public assets for more details
 - Microsoft, Dell, and Kyndryl press release [link](#)
 - Vodafone press release [link](#)
 - One Summit network and edge session with Dell [link](#)
 - Kyndryl and Lenovo fireside chat [link](#)
 - Kyndryl Azure Stack HCI with Azure Arc Managed Service: solution brief [link](#)
2. Ask that your account team set up an executive or technical briefing to learn more about the offering and the potential value for your organization
3. Request an initial [consultation](#)

Thank You



Why companies are turning to consulting and private cloud managed services

