

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

Agenda

) Why Kyndryl?

2 Customer challenges leading to a distributed cloud operating model

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



Common industry use cases



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 Al 38,000 in design thinking



400,000

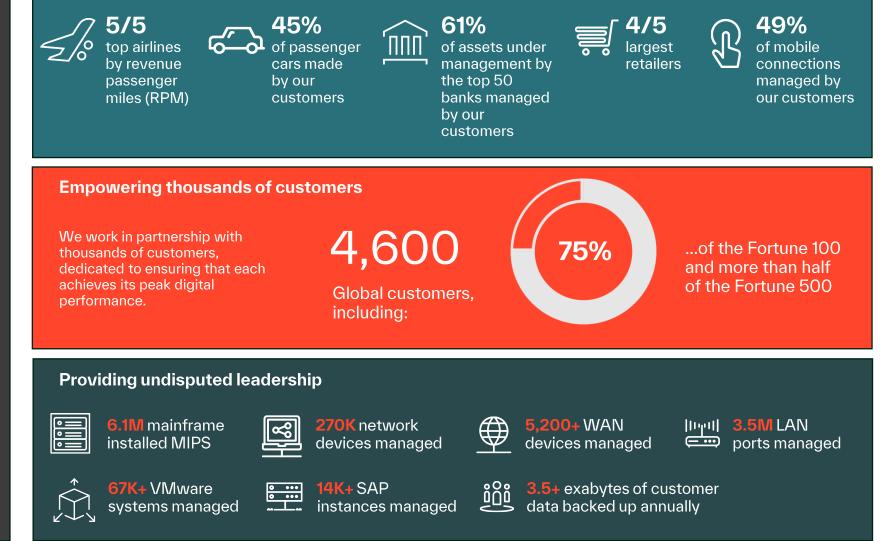
years of engineering experience



31,000 Vendor-recognized certifications

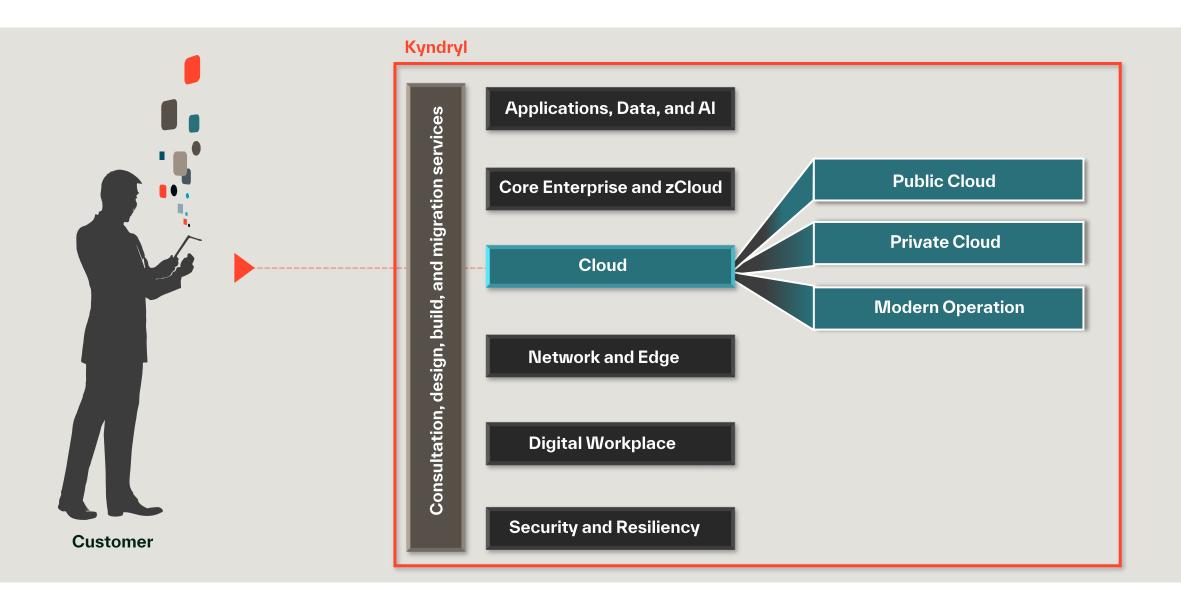
in Microsoft Azure, VMware, Cisco, Red Hat, AWS, and more

Powering mission-critical technology systems across essential industries

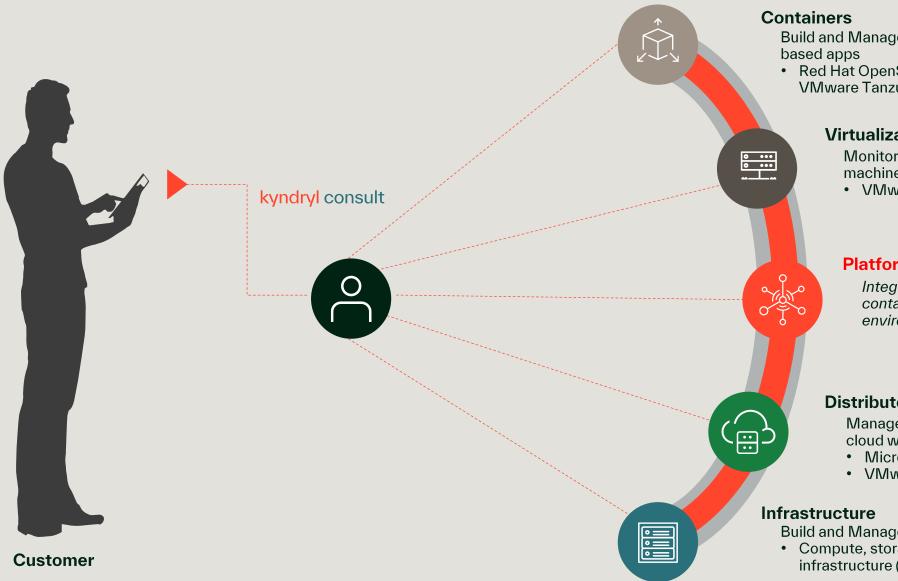




Kyndryl practices and services stack view



Kyndryl Services for Private Cloud



Build and Manage services for microservices-

• Red Hat OpenShift, AWS EKS, Azure AKS, VMware Tanzu

Virtualization

Monitoring and management of virtual machines in any environment

• VMware, VMC on AWS, Nutanix AHV

Platform

Integrated infrastructure with VMs or containers in a fully managed environment

Distributed Cloud/Hybrid Cloud

Managed infrastructure for public and private cloud with a single pane of glass

- Microsoft Azure Stack HCI
- VMware Aria, Nutanix

Build and Manage in a pay-per-use/as-a-service model

 Compute, storage, networking, hyperconverged infrastructure (HCI)

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



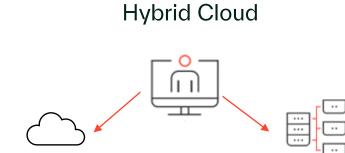
Customer challenges leading to a managed distributed cloud

"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



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Comparing cloud operating models



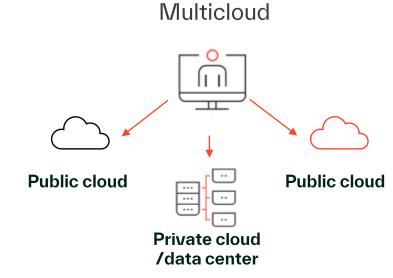
Public cloud





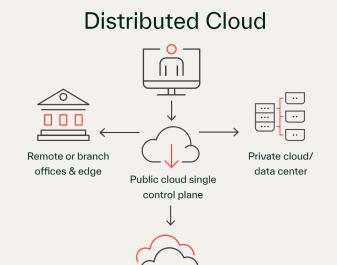
- Leverage cloud innovations and tools
- Facilitate cloud journey while keeping assets on-premises

Complexity ++



- 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 ++++



Multicloud

- 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





Remote office/edge deployment

Small solution (1–3 Azure Stack HCl 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



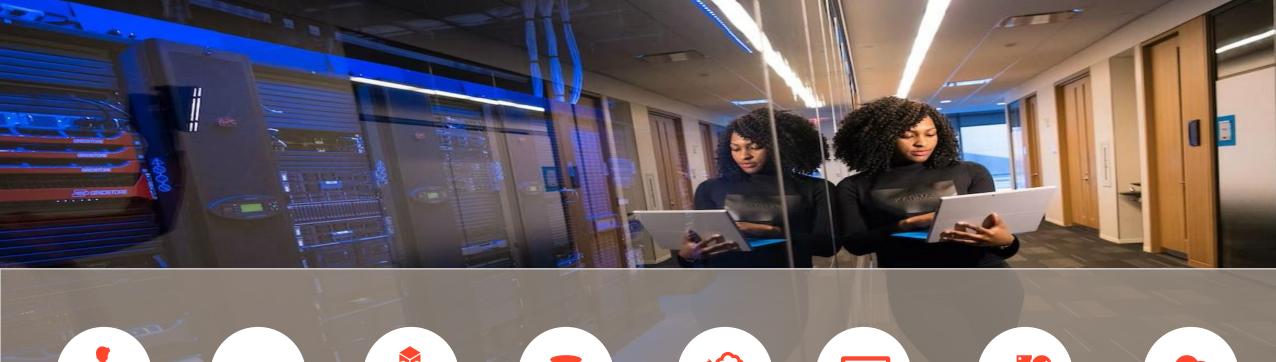
Reduce operational and administrative tasks to empower teams to focus on high-value activities

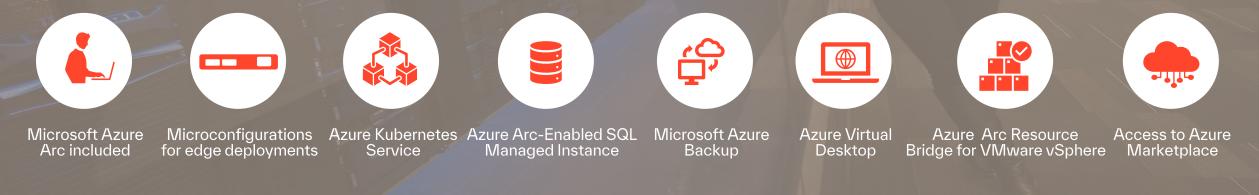


Pay for only the resources you need by transforming legacy infrastructure

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Critical capabilities and features





What we provide

• <u>||</u> • <u>||</u> • <u>||</u>

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



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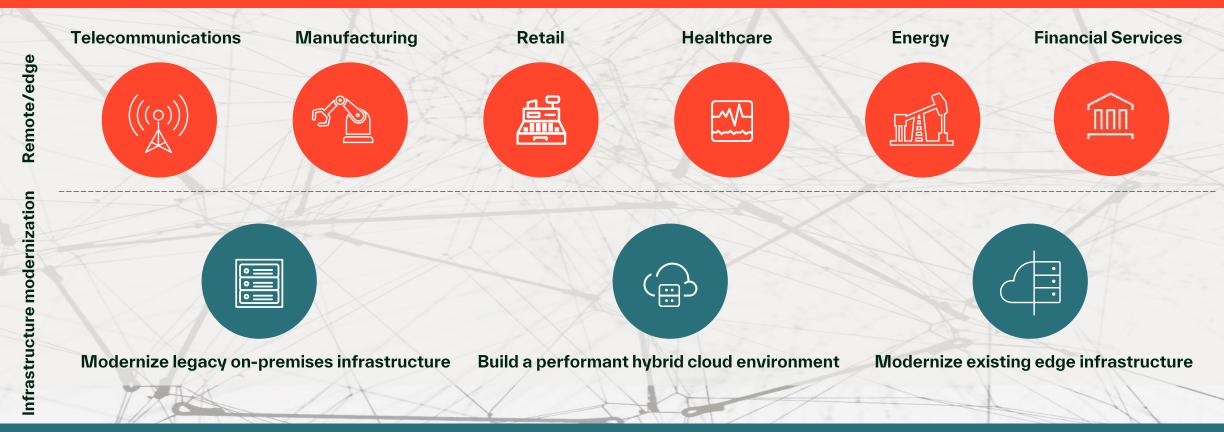
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Industry use cases



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.

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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



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 **Outcomes:**



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

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https://www.vodafone.co.uk/newscentre/press-release/now-open-uk-first-edge-innovation-lab-at-host-mediacity/

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 realtime 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



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Retail use cases

Remote use caseModernization 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

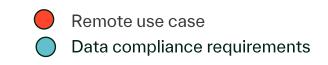


Create a data pipeline from the edge to data warehouse or analytics platforms to evaluate the impact of promotions, reallocate inventory, monitor buying trends by locale, etc.



Banking financial services and insurance use cases

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





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 Al for image-recognition software



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Healthcare use cases

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



) 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

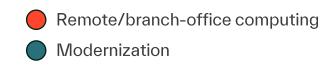


Providing continuous data backup and replication to the cloud for compliance and regulatory requirements



Energy use cases

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





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



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Next steps



Next steps: Preparing for your modernization journey

1. Review these public assets for more details

- Microsoft, Dell, and Kyndryl press release <u>link</u>
- Vodafone press release <u>link</u>
- 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 <u>link</u>
- 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



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Thank You

Why companies are turning to consulting and private cloud managed services



3. Cloud Control 2. Jefferson Frank & O'Reilly 4. Tech Target

1. DBTA

5. Tech Target