

Accelerate AI Adoption: Kyndryl AI Private Cloud with HPE and NVIDIA

Highlights

In an era where AI is transforming business operations, organizations face a critical turning point. Geopolitical shifts and data sovereignty concerns are prompting organizations to rethink their AI strategies. However, significant obstacles remain, including siloed and regulated data, legacy infrastructure, public cloud suitability, lack of AI governance and unclear ROI. One key emerging market dynamic among large enterprises is the rise of NeoCloud GPUaaS and TokenaaS capabilities. These bolster ROI by monetizing AI platforms and creating new revenue streams in a B2B framework.

Kyndryl, HPE and NVIDIA have partnered to create a secure, scalable and customizable AI platform that removes these obstacles to adoption and enables rapid deployment. By choosing a joint solution from Kyndryl, HPE and NVIDIA, organizations can unlock measurable business benefits including improved customer experience and future-ready innovation.

Introduction

Alongside the challenges of cultural change and cost, many organizations struggle to adopt AI because of insufficient skills, issues around data availability and quality, integration challenges and the lack of a coherent strategy.

Through a strategic partnership with HPE, Kyndryl helps organizations address these challenges and achieve their business goals through secure, scalable and intelligent AI platforms based on:

- Kyndryl/HPE - Private Cloud AI
- Kyndryl/HPE - AI Factory

Kyndryl and HPE solutions for AI

Kyndryl AI services span the full lifecycle of AI adoption – from setting the strategy and running prototype projects through to full deployment and ongoing operations. In combination with advanced AI and data capabilities from HPE, Kyndryl provides deep expertise across AI infrastructure, governance and managed services. Joint solutions from Kyndryl and HPE are tailored to each customer’s specific use cases.

Whether you are just starting your AI journey or building on existing initiatives, our services are tailored to meet your business objectives within the relevant regulatory constraints.

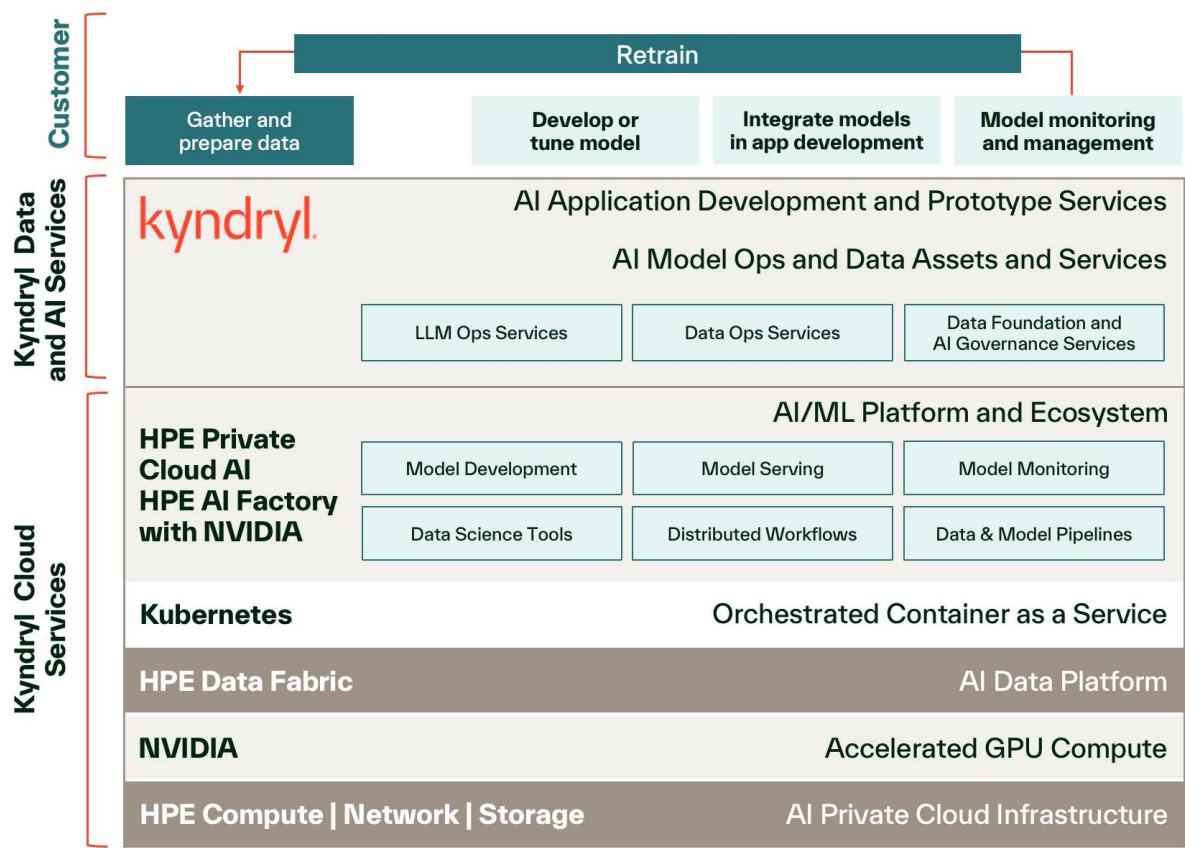
We partner with customers to drive:

- 1. AI strategy and roadmap development
- 2. Rapid prototyping, business validation and use-case prioritization
- 3. Data modernization and governance
- 4. Infrastructure design and deployment
- 5. Managed AI operations and optimization

To deliver measurable business outcomes and sustainable innovation, Kyndryl and HPE have created joint solutions based on HPE Private Cloud AI (HPE-PCAI) technology. HPE PCAI is a pre-configured, turnkey version of the HPE AI Factory – designed to simplify and accelerate AI workload deployments. It combines HPE’s high-performance compute, storage and networking hardware with NVIDIA co-engineered software and hardware, validated as part of the NVIDIA Enterprise AI framework, to deliver an integrated AI factory in a private cloud environment.

HPE AI Factory provides a modular framework for building tailored AI environments, giving enterprises practically unlimited scalability and customization options. It is ideal for organizations that require full-stack flexibility, seamless integration with existing systems, and support for diverse AI workloads from development to deployment.

In combination, Kyndryl and HPE empower organizations to achieve rapid value and business efficiency in their AI deployments. The Kyndryl and HPE platform provides a robust foundation for enterprise-scale AI transformation that delivers measurable business outcomes:



Benefits

Shorter time-to-value:

Rapid deployment with pre-integrated AI platforms and simplified onboarding using low-code/no-code tools and curated workflows.

Enhanced security and compliance:

Dedicated, single-tenant infrastructure with built-in encryption, role-based access and audit logging, adhering to data sovereignty and regulatory frameworks such as GDPR, HIPAA, and CCPA.

AI-ready infrastructure:

GPU-accelerated compute and AI-optimized storage tailored to AI workloads, integrated AI software stack supporting LLMOps and DataOps, and access to NVIDIA AI Enterprise tools. Scalable for inference, training and full-lifecycle AI operations.

Enhanced developer experience:

Orchestrated Kubernetes for simplified application development and deployment, with centralized management via HPE GreenLake Cloud and HPE AI Essentials.

Strategic AI adoption roadmap:

End-to-end support from discovery workshops to production deployment.

Business innovation and efficiency:

Intelligent automation and decision-making capabilities for any industry, driving improved productivity and reduced operational overhead.

New revenue streams:

Opportunity to increase ROI by transforming data centers into revenue-generating NeoClouds that offer GPU-as-a-Service or Token-as-a-Service to other organizations.

Kyndryl capabilities

Kyndryl accelerates AI transformation through strategic advice, implementation services and ongoing management, helping organizations to progress rapidly from prototype to production while delivering measurable value every step of the way.

1. Advise/Consult - Prepare

- Business use case identification and prioritization
- AI PoC success criteria and planning
- AI infrastructure sizing and design

2. Implement - PoC to Production

- Implement and run PoC
- Private cloud implementation services: Deployment model, AI infrastructure modes and readiness, lifecycle operations (provisioning, monitoring, etc.), security, capacity and performance
- Implement MLOps/LLMOps pipelines and deploy applications
- Build production-ready integrated AI private cloud as standalone or in a hybrid environment

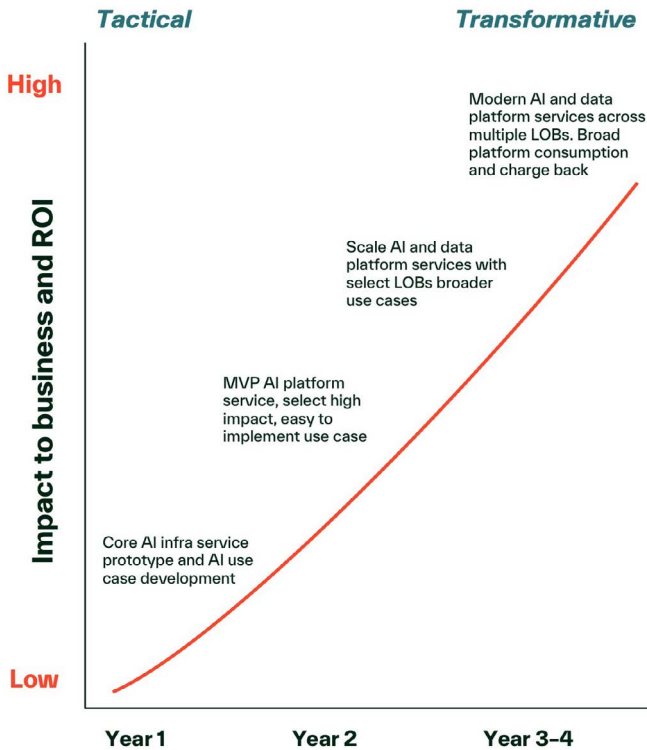
3. Manage - Production

- Fully managed AI private cloud services in partnership with HPE and NVIDIA
- Managed services for lifecycle operations, provisioning, monitoring, incident management and patching
- Infrastructure capacity planning and performance to ensure ongoing quality
- Integration with existing application systems and knowledge bases
- Production AI workload scheduling and orchestration at scale
- Cloud-adjacent control plane for hybrid cloud capabilities
- Automated FinOps reporting and analysis for cost optimization
- Implementation of NeoCloud AI platform and B2B model to create new revenue streams with external customers



AI Platform Investment Roadmap

Kyndryl helps customers develop a clear roadmap as a critical first step on their successful AI platform journeys.



Why Kyndryl?

Kyndryl has deep expertise in designing, running, and managing the most modern, efficient and reliable technology infrastructure that the world depends on every day. We design, build, manage and modernize the world's critical technology systems. As the world's largest provider of IT infrastructure services, Kyndryl is committed to the health and continuous improvement of the vital systems at the heart of the digital economy. With our partners and thousands of customers worldwide, we co-create solutions to help enterprises reach their peak digital performance.

Next steps

To find out more about accelerating AI adoption with Kyndryl AI Private Cloud and HPE, please contact your Kyndryl representative or [schedule a complimentary consultation with a Kyndryl expert](#). Learn more about the [Kyndryl and HPE alliance](#) or visit us at [kyndryl.com](#).

Kyndryl also helps identify key use cases where the adoption of AI technology will rapidly deliver positive business outcomes. For example, in:

Healthcare

Claims adjudication, radiology and imaging, medical health record management

Financial Services

Fraud detection, loan automation, investment strategy modeling

Telco

Edge computer vision, network anomaly detection, customer retention support



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1. [11 Barriers To Effective AI Adoption And How To Overcome Them](#), Forbes, May 2024.