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Kyndryl Private Cloud AI Services

Unleash the value of AI services while retaining control of your data

Customer challenges

The potential of artificial intelligence (AI) is game-changing, with AI-driven processes and technologies providing organizations with a variety of business benefits. AI's ability to shape the future is driving organizations across industries to embrace its capabilities. However, many organizations are struggling to understand how to develop an AI strategy for various use cases and select the right solutions from the multitude of AI offerings and services available.

Until recently, AI solutions were primarily focused on resolving typical clustering, classification and prediction problems, but the introduction of large language models (LLMs) and generative AI has pushed AI technology to a new frontier, unleashing completely new business scenarios. While generative AI can mimic—and sometimes surpass—human capacities to generate new text-based and visual content, its high potential comes with a new set of challenges, including:

→ **Complexity:** An exponential increase in demand for accelerated compute, storage, graphics processing unit (GPU) and network infrastructures to train LLM models with billions or trillions of parameters. Difficulty in setting up and maintaining IT infrastructure and AI tools and frameworks. The need for parallel applications to maximize resources.

→ **Data privacy:** Worry over privacy, exposure and control and—in some cases—sovereignty of data. Meeting compliance regulations is also a top concern among many organizations.

→ **Cost:** The cost of implementing AI solutions, including infrastructure, software and integration. The cost and difficulty of identifying and hiring employees with AI expertise.

Solution highlights

To overcome these challenges, many organizations are adopting a hybrid AI approach where they run their experiments in a public cloud—using infrastructures or services provided by major cloud providers—and then implement their AI solutions in their own private cloud.

Known as private AI, this approach allows organizations to use the compute, storage, GPU, network and data infrastructures that they own, as well as existing data governance, security and management policies from their IT departments.

A private cloud infrastructure can provide organizations with:

→ The flexibility, scalability and reliability they need to run their mission-critical applications and develop new ones.

→ Virtualization technologies to optimize the infrastructure usage and simplify the operational management of their environment.

→ Containerization for the development of cloud-native applications that can run on any platform, without the need for specialized development and operations skills.

Kyndryl can design, build and fully manage an infrastructure-as-a-service private cloud that helps organizations develop and deploy the production run of AI applications. Infrastructure services range from implementation to day-2 support, which acts as a base for additional AI services from Kyndryl, such as data foundation and LLM operations services.

Customer benefits

With AI services from Kyndryl Private Cloud, customers benefit from:

Decreased complexity:

Purchasing accelerated hardware and setting up the proper tools and frameworks to develop and run AI applications can be a difficult, lengthy and costly process. A ready-to-use private AI infrastructure with the appropriately configured hardware and AI deployment and optimization tools can reduce complexity, decrease time to value by weeks—if not months—with productivity and lower costs from day one.

Security-rich control for data:

For AI applications, training data is the crown jewel of any organization. Keeping that data secured on-premises and under the organization's control can help meet data compliance regulations, avoid the risk of data leakage and eliminate the costs associated with moving data to a public cloud.

Improved cost control:

The pay-as-you-go model can be very helpful for fast prototyping of applications in a public cloud infrastructure; however, the costs for the production run can easily go over budget. Additionally, the governance effort to forecast costs and keep them under control is resource-intensive. With a private AI infrastructure, organizations have direct control of their hardware costs and software licensing usage, so they can stay on budget and more easily meet governance requirements.

How Kyndryl helps

From defining how AI can help organizations innovate to gain a competitive edge to determining use cases to selecting the right solution from the myriad of AI offerings available, Kyndryl can help organizations design and build their AI strategy through a modular approach. We specialize in hybrid IT environments that enable organizations to leverage the benefits of both on-premises infrastructure and cloud services to support their AI initiatives, providing a flexible and scalable foundation for deploying and managing AI applications and workloads. We can manage the IT environment for organizations and even rework existing infrastructure to operate in an AI-friendly environment.

Why Kyndryl

Because AI is likely the breakthrough technology of our time—with the capability to make a huge impact on our lives—it's a good idea for organizations to partner with a company that can help them move forward effectively. Choosing Kyndryl unlocks the strength, experience, expertise and reliability of a recognized global IT services organization with deep engineering roots and more than 80,000 skilled professionals.

Through strategic consulting and services capabilities, we help simplify adoption of AI, empower organizations to choose the right cost-optimized AI solutions and help them design successful modern architectures.

For more information

AI is an emerging technology that presents a multitude of business opportunities, but also creates certain risks, which we did not discuss here. Learn more about AI risks, get more information about Kyndryl Private Cloud services or request a 30-minute no-cost strategy session with a cloud services expert.