



## Kyndryl Private Cloud

Hybrid cloud transformation in a pay-per-use model

Complex enterprise IT infrastructures require the safety, speed and compliance of an on-premises solution with the efficiency, simplicity and value of the cloud.

The momentum for companies moving their critical business applications to the cloud remains steady and strong. However, many companies run workloads that simply can't move to a public cloud, or don't fit into the public cloud model. Reasons for these limitations can include data transfer latency issues, security and compliance risks, or management and maintenance roadblocks. To better address this market need, the demand has grown for public cloud benefits stacked on dedicated, on-premises infrastructures.

### Gain the benefits of public cloud with on-premises IT deployment

Kyndryl™ Private Cloud can provide compute as a service and storage as a service solutions for both on and off premises fully managed by Kyndryl. They are offered through cloud business models and are foundations for cloud management software including Red Hat®, VMware® and IBM CloudPak®. This approach helps deliver a consistent, scalable, OpEx-based, as-a-service capability where you can experience the benefits of a public cloud while still adhering to privacy, data residency restrictions and security requirements.

Combined with public cloud platforms such as Microsoft® Azure® and IBM Cloud®, Kyndryl Private Cloud enables on-premises workloads to run in tandem with public cloud workloads from a single pane of glass, delivering a unified and consistent approach to IaaS across the hybrid landscape.

## What Kyndryl Private Cloud can do for your business

- Accelerate cloud transformation with a private cloud infrastructure for workloads constrained by on-premises requirements.
- Improve agility with a fully managed on-premises infrastructure without a long-term commitment.
- Improve business security in a hybrid cloud environment where data and workloads are protected by dedicated infrastructure.
- Secure with data encryption and management that is air-gapped (physically isolated) from your infrastructure, yet secured and vetted by Kyndryl.
- Scale as needed, with a pay-as-you-go model that reduces cost by eliminating initial capital expenses and reducing risk associated with new technology.
- Create a true hybrid cloud environment that can seamlessly link private and public cloud resources and enable innovation.

## Our approach

We provide a pay-as-you-go framework integrated with the latest compute, storage, and network technology options for improved application performance and greater efficiency. Purchased as a service, our private cloud infrastructure eliminates capital expenses (CapEx) by moving to a consumption-based operating expense (OpEx) model. Customers can choose an as a service model for compute, storage, networking or a combination of those offerings for maximum savings and flexibility.

Compute-as-a-service is a dedicated, single tenant environment that can ease security concerns by isolating workloads both on physical servers and on virtual machines. Storage as a service offers multiple highly scalable, security-rich and high-performing data tiers that provide a dynamic storage cloud that can accelerate the performance of your most demanding cloud applications, now and in the future. Network as a service can provide a fully managed, single-tenant, private cloud-based SDN data center local area network (LAN) environment for your data centers. We manage the hardware, eliminating initial capital expenses and reducing risk associated with new technology adoption.

## How Kyndryl Private Cloud works



### You choose what's best for your business:

#### Infrastructure management

- Network as a service
- Compute as a service
- Storage as a service

#### Location

- Your data center
- Colocation of your choice
- Kyndryl data center

#### Compute offering

- Bare metal
- Virtual machines: vCPU, RAM

#### Storage offering

- Data tiers: block, file, and object
- Total GB capacity

#### Management location

- Remote, regional, or in-country, available globally

#### Network offering

- Data center network fabric and switch pairs



### Kyndryl delivers:

#### Installation

- All necessary hardware and software
- Compute, storage or network infrastructure

#### Tools

- User experience includes auto-provisioning and lifecycle management of virtual resources

#### Infrastructure management

- Allocations, provisioning and upgrades

#### Infrastructure monitoring

- Enterprise class monitoring to assure service availability and performance

#### Host network interface

#### Completed infrastructure

- Available to customers for application and workload deployment or data migration

# Use cases

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## 01

### Future-proofing business

**Problem:** A manufacturing customer needed a multisite infrastructure solution that gives the company public cloud capability with the security of a dedicated private cloud environment.

**Solution:** Kyndryl Private Cloud was installed as a fully managed, on-premises service across the customer's sites, providing the security they needed with air-gapped management that's physically isolated from customer infrastructure and at-rest data encryption, so the customer data is always secured in the infrastructure.

**Business benefit:** This flexible solution enabled a private cloud environment that's deployed and fully managed by Kyndryl with all data housed onsite to comply with regulations. The customer's security concerns were eased by isolating workloads both on physical servers and on virtual machines.

## 02

### Driving IT transformation

**Problem:** A large bank was running transactional application constrained by physical distance and network bandwidth and needed a scalable solution to maximize performance by reducing latency.

**Solution:** Kyndryl Private Cloud was installed and managed on premises, which allowed the bank to achieve business results more quickly as well as sustained data availability and resiliency.

**Business benefit:** The on-premises IT infrastructure minimized latency, allowing for scalability and higher transactional performance.

## 03

### Scaling with security and resiliency

**Problem:** A large healthcare company needed a multisite infrastructure solution that gave them the agility, performance, and expense management of cloud—all while maintaining the strict security required for client health data in a dedicated private cloud model. Additionally, the company needed a solution that could keep up with its rising capacity demands due to rapid expansion.

**Solution:** Kyndryl Private Cloud allows the customer to cost-effectively scale on-demand. The customer is extremely satisfied with the solution, continuously adding compute and storage capacity across their 5 total sites.

**Business benefit:** Kyndryl Private Cloud is able to meet the customer's growing demand for capacity in real time.

## 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 are deeply committed to advancing the critical infrastructure that powers human progress. We're building on our foundation of excellence by creating systems in new ways: bringing in the right partners, investing in our business, and working side-by-side with our customers to unlock potential.

To learn more about [Kyndryl Private Cloud](#) contact your Kyndryl representative or visit us at [www.kyndryl.com](http://www.kyndryl.com)



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