

FlexPod Datacenter with IBM Cloud Priva

Successful digital transformation requires a complete solution that enables DevOps and data science to work closely with infrastructure administrators to maintain data sovereignty and simplify enterprise management. With a trusted, flexible infrastructure in place, transformation results in:

- Accelerated release cycles
- The ability to modernize existing applications
- The capacity to develop new, cloud-native solutions

To better enable application developers, IT administrators must offer deployment capabilities across public, private, and hybrid clouds. Closely integrating infrastructure with middleware and developer tools in a platform-asa-service (PaaS) solution provides the benefits of public cloud in a private cloud environment. IT can deliver the powerful, modernized environment that development teams need without sacrificing security or compliance. Modern converged infrastructure like the FlexPod® data center solution from NetApp and Cisco, combined with IBM Cloud Private, provide PaaS capabilities for faster deployments and higher efficiency with less risk. The result is improved developer productivity, reduced build times, and optimized storage space.

FlexPod



IBM Software













FlexPod Datacenter with IBM Cloud Private (ICP) is a prevalidated solution built to provide all the benefits of PaaS and converged infrastructure right out of the box.

FlexPod Datacenter with IBM Cloud Private enables:

- Data security and sovereignty with on-premises solutions
- Accelerated adoption of new technology to modernize applications
- Confidence, with a trusted platform from industry leaders NetApp, Cisco, and IBM
- Superior control of containerized applications with integrated management tools





Start with the Proven FlexPod Platform

The FlexPod converged infrastructure, built on groundbreaking technology from NetApp and Cisco, is designed to increase IT responsiveness to organizational needs and reduce the cost of computing with maximum uptime and minimal risk. With its prevalidated storage, networking, and server technologies, FlexPod is the trusted platform of thousands of customers around the globe. FlexPod means faster decision making and greater opportunities for growth, with:

- Proven value, demonstrated through accelerated deployments and efficient infrastructure.
- Proven agility, providing built-in cloud capabilities, support for a broad set of workloads, and automation tools for rapid service deployment.
- **Proven performance**, with groundbreaking technology from two industry leaders and resilient design for mission-critical applications.

Achieve PaaS with IBM Cloud Private

IBM Cloud Private (ICP) is an on-premises platform for developing and managing containerized applications for cloud-native and application-modernization use cases. It is an integrated environment that includes Kubernetes as its container orchestration, a private image repository for Docker containers, a management console, a monitoring framework, a vulnerability advisor tool, and more. ICP opens doors to innovation without sacrificing security with its Kubernetes-based, cloud-native platform, and enterprise-grade content.

- Deliver and run elastic workloads in your own, trusted data centers.
- Run your workloads in an on-premises, private-cloud platform that offers adherence to regulatory, compliance, and policy standards.
- Create, run, and manage cloud apps on an integrated platform that consists of infrastructure-as-a-service (laaS), PaaS, and developer services.

Transform with the Combined Power of FlexPod and ICP

- Leverage best-in-class infrastructure for an advanced cloud journey that includes on-premises or managed PaaS.
- Reduce complex integration for IBM Cloud native software packages with prevalidated infrastructure designs tested by IBM, Cisco, and NetApp.
- Gain cloud agility with the most cloud-connected storage systems and the NetApp® Data Fabric architecture.
- Simplify the container-based deployment experience for application developers with built-in IBM Cloud Private application deployment tools.
- Easily integrate with vSphere, Kubernetes, and orchestration and management tools through plug-ins and an extended set of APIs.

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Enterprise-Grade PaaS, Driven by Kubernetes

Kubernetes is the open-platform powerhouse behind ICP on FlexPod, a flexible, modernized, container-based architecture for your enterprise. Within moments of setting up your FlexPod Datacenter for ICP system, you'll be able to accelerate deployments, modernize development practices, and scale on demand with confidence. Get ready for PaaS, modernized application development, and improved data center management capabilities, including:

- Out-of-the-box production readiness with integrated value-added services for security, performance tuning, high availability, self-healing architecture, multicloud management, and more.
- Simplification of complex deployments with centralized management of onpremises, private cloud with multicloud integration services for distributed consumption requirements.
- Rapid enterprise adoption enabled by seamless integration with existing systems and solutions.
- Open-source compatibility to support your existing Tomcat, MySQL, and other third-party open-source development platforms.
- Continued modernization with Kubernetes and Cloud Foundry enhancements and updates provided by IBM.

Comprehensive, Flexible Integration

In addition to deployment validation, the FlexPod Datacenter with IBM Cloud Private solution features integrations at multiple levels to facilitate resource deployments for developers.



Deploy ICP nodes on vSphere and integrate tightly with FlexPod for low-risk, high-efficiency datastores, storage, and networking services.



Fully integrate with the Kubernetes framework for service-level driven storage classes, Persistent Volumes, and Persistent Volume Claims.



Accelerate development and enhance DevOps practices with Trident, the Kubernetes-based dynamic-storage provisioner plug-in from NetApp.



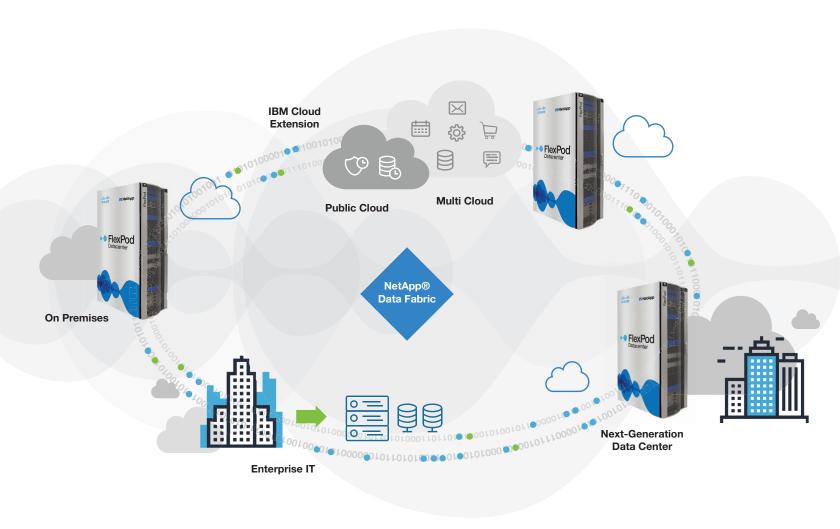
Easily integrate data protection, data encryption, quality of service, and other efficiency features with an extensive set of APIs, and provide native management and orchestration through policy-based automation tools.

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Reach for the Cloud

Are you ready to create your cloud-ready enterprise platform with FlexPod Datacenter with IBM Cloud Private?

Learn more at www.netapp.com/flexpod or www.cisco.com/go/flexpod

Learn more about ICP at https://www.ibm.com/cloud-computing/products/ibm-cloud-private/



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