

Cloud Native Without the Chaos

A Quick Guide for IT Leaders

Why cloud native success starts
with the right platform

NUTANIX



A Cloud Native Strategy for Enterprise IT Leaders

Chaos is the cost of going cloud native *without* a strategy

IT leaders are under pressure to modernize operations, accelerate application delivery, and improve agility, resilience, and scalability—all while controlling costs. Most enterprises are accelerating the adoption of containers, Kubernetes® container management, and cloud native methods to achieve these goals. But the transition is rarely simple.

To succeed, leaders need to establish a hybrid multicloud strategy to guide cloud native initiatives, accelerate application modernization, and prepare their enterprise for an AI-driven future.

Cloud Native Challenges

Fragmentation, complexity, and silos are slowing your cloud native momentum

Key obstacles to scaling cloud native operations include:

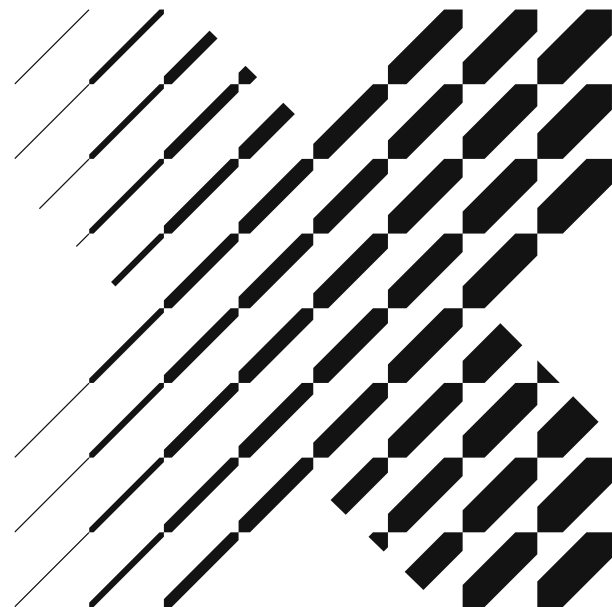
Kubernetes fragmentation: Some enterprises [use two or three versions of Kubernetes](#), which can result in siloed tools, processes, and management teams.

Standardize operations: Fragmentation makes it difficult to standardize operations and complicates monitoring, scaling, and troubleshooting.

Data management: Difficulty ensuring consistency, portability, security, scalability, and compliance.

Skills gap: Existing staff lack cloud native skills and hiring is difficult.

And finally, it's common for enterprises to maintain distinct infrastructure for Kubernetes and traditional virtualized applications, leading to operational complexity and potentially higher costs. These challenges all point to the need for a single enterprise Kubernetes platform that runs everywhere, minimizes friction and provides consistency.



Selecting an Enterprise Kubernetes Platform

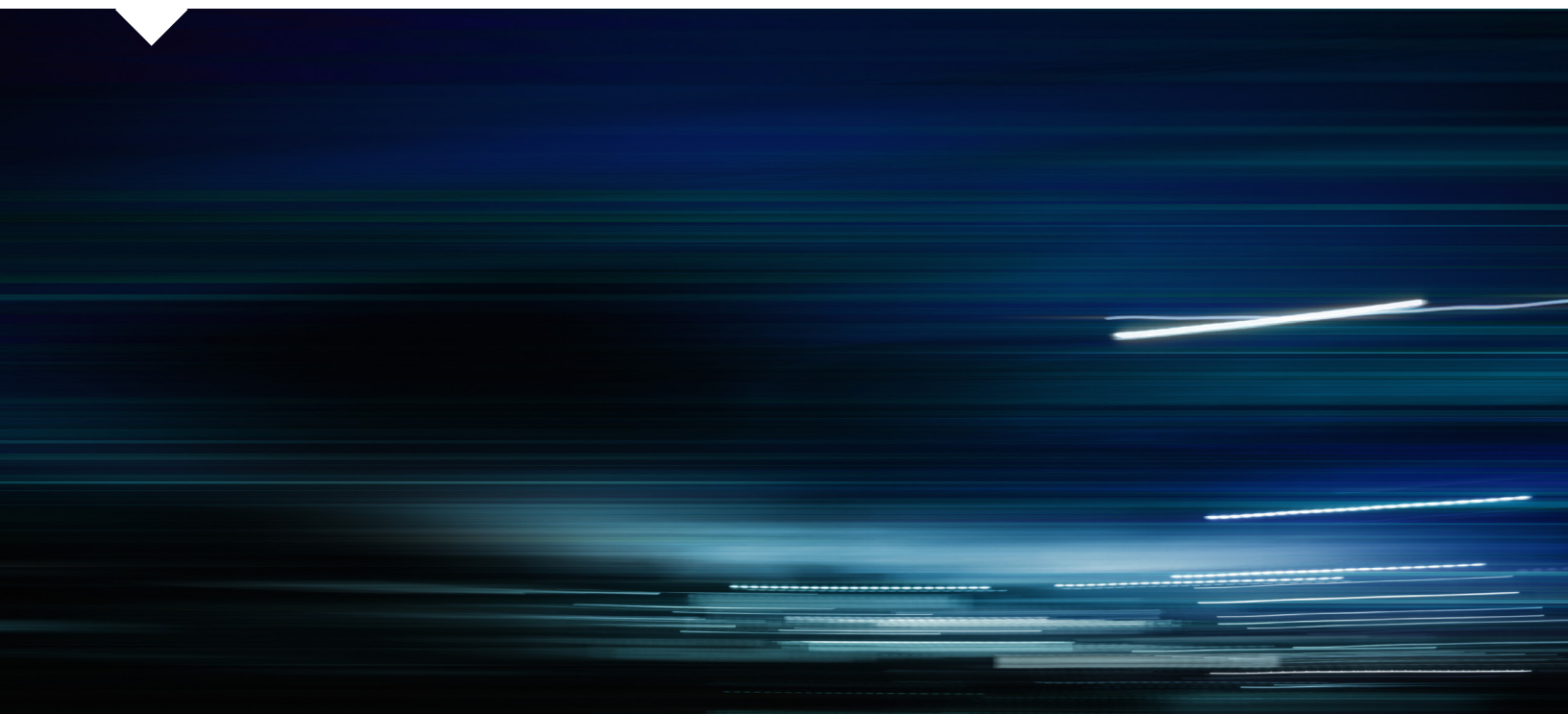
What to look for in a platform that simplifies operations and scales with you

A Kubernetes platform builds on Kubernetes to provide a comprehensive, streamlined environment for creating, deploying, and operating containerized applications. The right platform should include the enterprise-grade capabilities your business demands, focusing on **security and compliance, resilience, advanced storage capabilities, and overall scalability.**

Authentication, role-based access control, and auditing are essentials for security and compliance, while service mesh integration enables resilience. Built-in persistent storage streamlines operations that span datacenter, cloud and edge, while multi-cluster federation is key for scalability.

Critical deployment and management capabilities include:

- A centralized control plane to manage clusters across datacenter, edge and cloud.
- Ability to deploy across datacenter, edge, and cloud, and extend management to already existing clusters.
- Fleet management to automate deploying, scaling, monitoring, and updating large numbers of clusters in parallel.
- Real-time, granular cost management to minimize waste and deliver accurate forecasting.



Why Choose Nutanix as Your Cloud Native Partner?

Simplify Kubernetes. Unify infrastructure. Accelerate innovation.

Nutanix is a global leader in cloud software, with a unified platform to run apps, data, and AI anywhere. We offer a comprehensive enterprise-grade Kubernetes platform, [recognized for its strengths in container management](#).

Nutanix Kubernetes Platform (NKP)

Designed to deliver operational simplicity and consistency, complemented by the Nutanix Data Services for Kubernetes (NDK) solution.

Nutanix Data Services for Kubernetes (NDK)

Extends enterprise-grade data management to containerized applications.

The [Nutanix Kubernetes Platform](#) (NKP) solution has been designed to deliver operational simplicity and consistency, complemented by the [Nutanix Data Services for Kubernetes](#) (NDK) solution, which extends enterprise-grade data management to containerized applications.

Built on pure upstream Kubernetes, NKP streamlines lifecycle management, minimizes operational complexity, and offers full integration with the cloud native ecosystem. It also incorporates the latest GenAI capabilities to simplify management and mitigate any skills gaps in your organization.

With Nutanix, organizations position their IT teams to:

Accelerate application development: With a simplified, integrated platform, Nutanix enables developers to build and deploy applications faster and accelerate time-to-market.

Boost IT productivity: Enable your platform engineering teams to spend less time managing complex infrastructure and more time focusing on strategic initiatives.

Enhance security and governance: With built-in security and centralized management, your team can enforce policies, manage compliance, and address the risk of security vulnerabilities.

Reduce operational complexity: A unified control plane that simplifies management by automating Kubernetes deployment, scaling, and upgrades. Run Kubernetes consistently across all environments.

Ready to simplify your cloud native journey without the chaos?

See how Nutanix helps scale Kubernetes, unify VMs and containers, and run AI like other workloads.

[Get the Full Guide](#)

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