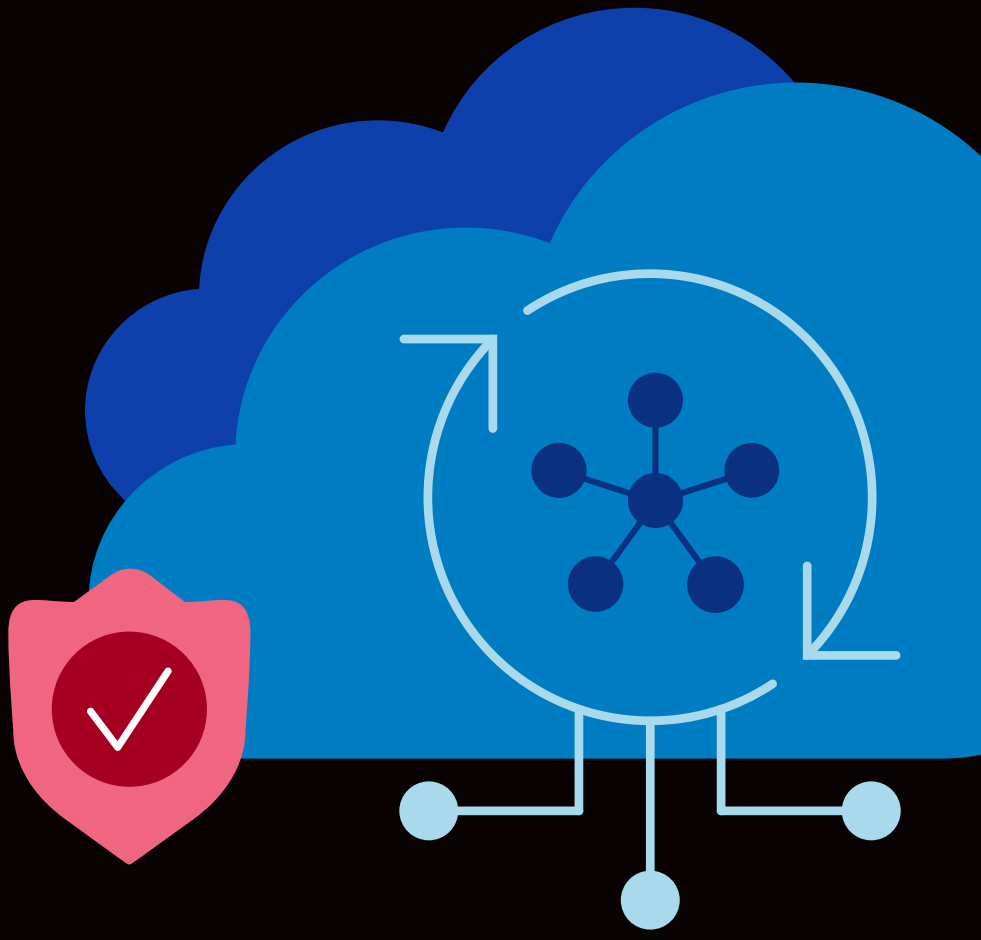
Solution Overview

Optimize Hybrid Cloud Operations with F5 and Nutanix

Manage applications across hybrid and multicloud environments while ensuring consistent security, performance, and availability with F5® Distributed Cloud Services on Nutanix. Simplify your cloud operations and enable seamless workload mobility to support data repatriation initiatives.



NUTANIX

Key Benefits

Improved Cloud Economics
Reduce operational costs by up to 60% on power and cooling with hyperconverged infrastructure[1] and lower operational expenses up to 40% through automation.

Optimized Performance
Improve app availability by 45% with adaptive traffic management and elastic scaling.

Enhanced Security Posture
Maintain consistent security policies across environments with integrated security features and zero trust architectures.

Accelerated Repatriation
Support seamless workload mobility between public cloud and on-premises environments.

The Hybrid Cloud Reality

Workload placement is an ongoing discussion for many businesses as they strive to match applications with the best environment, whether that's in the cloud or on premises. While IDC found that only 8-9% of organizations plan to fully repatriate public cloud workloads, most plan to repatriate at least some of their workloads to create a hybrid environment.[2] This migration is primarily due to cost pressures, compliance requirements, and performance needs.

However, with hybrid cloud environments, many organizations struggle with inconsistent security policies, variable application performance, complex networking configurations, and siloed management tools. These issues are further complicated during the workload repatriation process, where maintaining application availability and preserving configurations are critical.

A solution is needed to reduce operational complexity while providing the flexibility to place workloads in the best environment for their specific needs.

Simplify Hybrid Cloud Operations

Nutanix provides a cost-effective solution that brings together storage, compute, and networking in one simplified platform. When paired with F5 Distributed Cloud Services, you can manage applications across diverse environments with consistent security, performance, and operational efficiency. Native integration of F5 services with Nutanix Acropolis Hypervisor (AHV) and Nutanix Cloud Clusters (NC2) reduce the challenges of hybrid cloud management with:

- **Consistent application delivery and security:** Provide identical experiences and protection regardless of where workloads are hosted
- **Secure connectivity:** Create secure connections between environments with automated security policies
- **Simplified management:** Centralize control of application services across all environments
- **Optimized performance:** Leverage intelligent traffic management to enhance application availability
- **Cost-effective infrastructure:** Reduce operational expenses through infrastructure consolidation and automation

F5 app delivery and security solutions and secure multicloud networking, combined with Nutanix's hyperconverged infrastructure, simplify hybrid cloud management and make it easier to repatriate workloads when needed.

Key Features

Unified Management
Centralize control over application services, regardless of where they are deployed.

Secure Multicloud Networking
Deliver consistent security and connectivity across multiple clouds without complexity.

Edge Compute
Extend application services to the edge, reducing latency and improving user experiences.

Hyperconverged Infrastructure
Reduce your data center footprint by consolidating workloads on a single platform with scalable storage, memory, and compute.

Secure Applications Across Environments

Distributed Cloud Services provide comprehensive protection for applications wherever they reside with F5® Distributed Cloud Web App and API Protection (WAAP). The solution secures hybrid and multicloud environments from end to end with consistent security policies and enforcement, including advanced WAF, distributed denial-of-service (DDoS) mitigation, API security, and bot protection capabilities.

F5 helps you implement zero trust architecture principles through identity-based access controls that seamlessly integrate with Nutanix's micro-segmentation technology. This robust security framework protects applications during normal operations and throughout migration or repatriation, ensuring that security posture is maintained regardless of workload location.

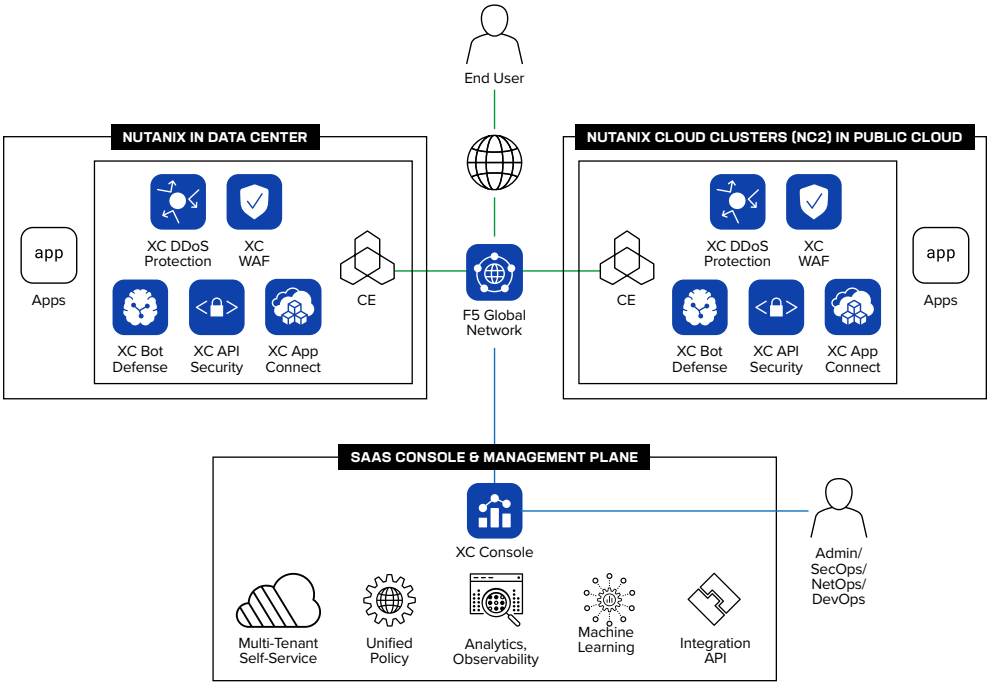


Figure 1: Securely connect and migrate workloads between any environments with F5 and Nutanix.

Streamline Data Repatriation

When economic, regulatory, or performance requirements necessitate moving workloads from public cloud back to on-premises or private cloud environments, using F5 and Nutanix streamlines the process. The integration enables seamless transitions by maintaining application availability during repatriation with F5's intelligent traffic management.

Preserve your important configurations by retaining IP addresses, security policies, and access controls throughout the migration process. Automated workflows accelerate the repatriation process through orchestration capabilities, reducing manual effort and potential errors.

Additionally, performance optimization features ensure applications are fast and reliable in their new environment after migration. With consolidated infrastructure and improved operational efficiency, you can ensure continuous availability of critical applications throughout the repatriation process.

Reduce Cloud Complexity, Cost, and Risk with F5 and Nutanix

With over a decade of partnership, F5 and Nutanix provide the flexibility, security, and operational efficiency needed to implement effective hybrid cloud strategies, including the ability to repatriate workloads when necessary.

Learn more at f5.com/partners/technology-alliances/nutanix.

1. Nutanix, University Chooses Nutanix to Resolve Perfect Storm of IT Demands
2.IDC, Storm Clouds Ahead: Missed Expectations in Cloud Computing, Oct 2024