

SaaS-Based Multi-Cloud Networking and Security with VMware NSX+

At a glance

VMware NSX+ is a new VMware NSX offering that allows you to transition to a SaaS-based multi-cloud operating model for networking, security, and advanced load balancing.

Multi-cloud complexities

- Fragmented network policy and operational frameworks create network silos
- Limited app, network, and security visibility across clouds
- Inconsistent security controls amplify lateral security threats
- Complex network design and day 0–day 2 operations
- Inability to move app and data between clouds

Enterprises are standardizing on hybrid cloud infrastructure to speed up application delivery and business innovation. However, securely deploying applications and infrastructure on-premises and across multiple clouds is complex.

Key business needs include:

- Accelerating app and cloud transformation with consistent enterprise-grade networking and security features across clouds
- Operating efficiently across clouds with the ability to migrate workloads and accelerate network deployment and operations
- Strengthening security across multi-cloud environments with solutions that minimize the risk of ransomware and simplify security operations
- Optimizing infrastructure spend with the flexibility to deploy on any cloud while simultaneously protecting existing investments

VMware NSX+™ addresses these needs and more, paving the way for you to deploy and manage your network efficiently across private and public cloud environments. NSX+ is a fully managed cloud-based networking, security, and advanced load balancing as-a-service offering. It allows networking, security, and operations teams to consume and operate VMware NSX® services from a single cloud console across private and public clouds. NSX+ optimizes business-critical network availability, performance, security, and cost, enabling your enterprise to overcome limitations of cloud services and bespoke hardware-based network solutions. You benefit from consistent policy, unified visibility, network detection and response, advanced load balancing, and simplified cloud operations, helping accelerate your multi-cloud deployments at scale.

Consistent policy and simplified cloud consumption

- Uniform policy framework, consistent network and security controls, and automation delivered from a centralized cloud console
- Simplified cloud consumption with the NSX+ VPC model
- Multitenant self-service cloud environment

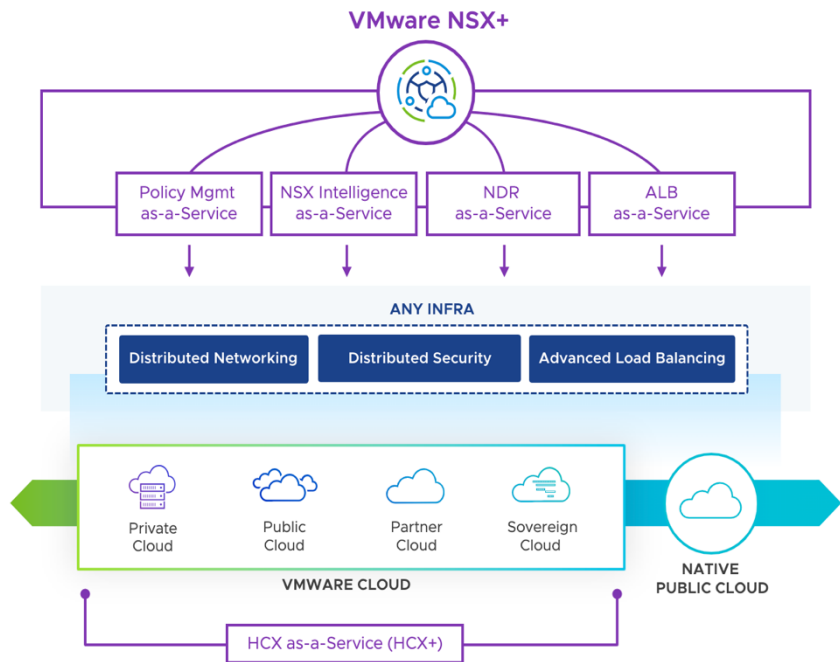


Figure 1: Consume and operate NSX services from a single cloud console across private and public clouds with VMware NSX+.

VMware HCX+™ further accelerates your multi-cloud journey by providing fully managed workload migration and mobility as a service with centralized management, orchestration and observability for migration, repatriation, and rebalancing initiatives across clouds.

Achieve consistent networking and security controls and multitenant simplified cloud consumption

NSX+ centralized policy management speeds up app and network infrastructure deployment across private and public clouds with a uniform policy framework, consistent networking and security controls, and automation delivered from a centralized cloud console. The NSX+ virtual private cloud (VPC) model simplifies network consumption by extending VPC constructs beyond public cloud, allowing you to build a multi-VPC architecture across private and public clouds that abstracts away the complexities of underlying network constructs. IT can then enable self-service deployment with the ability to create a multitenant cloud environment that offers streamlined tenant onboarding, tenant isolation, and observability.

Strong multi-cloud security

- Streamlined security operations across multiple clouds
- Proactive detection and response to potential security incidents across clouds
- Rapid deployment of security solutions without adding complexity

Advanced load balancing

- Managed services shift the focus from infrastructure to application availability
- Brings application awareness to the underlying cloud infrastructure
- Native integration with VMware Cloud for holistic visibility and faster troubleshooting

Consistent multi-cloud network operations

- Visibility and monitoring across all network deployments
- Simplified NSX lifecycle management with upgrade recommendations
- Multi-cloud workload mobility and migration with HCX+

Strong multi-cloud security

Multi-cloud security requires visibility and threat correlation across multiple types of clouds. Most security tools today simply can't function smoothly across such an environment. However, NSX+ can. With NSX+, your enterprise can quickly identify security gaps that pose the greatest risk when deploying multi-cloud applications via comprehensive visibility into applications' security posture using VMware NSX Intelligence™. Further, you can reduce the risk of ransomware by identifying potential security threats by correlating signals from multiple clouds using network detection and response. Finally, security teams can accelerate their time to value in a multi-cloud environment via a simplified deployment process.

VMware NSX Advanced Load Balancer Controller cloud service

VMware NSX Advanced Load Balancer Controller™ is a native managed service that brings application awareness to VMware Cloud™ on AWS by mapping applications to the underlying infrastructure, including networks and servers. Cloud admins can readily access application health scores, end-to-end latency, and traffic patterns with an intuitive UI and deploy applications in minutes while eliminating contention between network, server, and application teams with pinpoint accuracy. The SaaS offering automatically simplifies day 0 to day 2 tasks, including controller installation, configuration, upgrades, disaster recovery, and autoscaling, so IT teams can focus on applications. The integrated solution simplifies compliance, governance, and policy management with a single vendor for purchase and support.

Consistent multi-cloud network operations

With NSX+, network teams gain granular visibility and resource monitoring across all network deployments with dashboards to monitor status and alarms, and quickly identify trends, troubleshoot issues, and optimize performance. NSX lifecycle management is simplified with streamlined network upgrades (no node-by-node upgrades) and upgrade recommendations. HCX+ simplifies multi-cloud workload mobility and migration with centralized management, orchestration and observability for migration, repatriation, and rebalancing initiatives.

The NSX+ cloud console

- Connect all NSX instances to the VMware Cloud console for centralized management
- Update NSX instances with a single click
- Enable hassle-free keyless entitlement
- Leverage subscription-based, OpEx-driven network consumption

Get started

Streamline onboarding from VMware NSX to VMware NSX+. Learn more at nsx-plus.com.

The NSX+ cloud console

NSX+ connects all NSX instances (at your discretion) to VMware Cloud for centralized networking and security management. VMware Cloud Gateway™, installed on-premises with VMware vSphere+™, connects NSX instances to the VMware Cloud console. Through this console, you can see your entire network, centrally manage policy, and monitor your environment. You can also update NSX instances with a single click, reducing the operational effort and maintenance window required. Keyless entitlement eliminates the hassle of recording, tracking, splitting, and entering NSX license keys. You can purchase and manage NSX+ services as a subscription and align closely with an OpEx-driven network consumption model, reducing large upfront costs.

Get started with VMware NSX+

If you are currently on NSX, there is no migration required to upgrade/convert to NSX+. There is no migration of VMware ESXi™ hosts or workloads to the cloud. You can still manage on-premises infrastructure locally with the VMware NSX Manager™ UI. NSX+ supports several existing NSX capabilities, including distributed switching and routing, distributed firewalling, network detection and response, NSX Intelligence, and advanced load balancing.

Please refer to the following resources for more details on features supported:

- [VMware NSX+ datasheet](#)
- [VMware NSX Distributed Firewall™ datasheet](#)
- [Network Detection and Response solution overview](#)
- [VMware NSX Intelligence solution overview](#)
- [VMware NSX Advanced Load Balancer™ with Cloud services solution overview](#)