

NSX HYBRID CONNECT

Infrastructure Hybridity and App Mobility Across And-to-Any vSphere Cloud

AT A GLANCE

NSX Hybrid Connect provides infrastructure hybridity and application workload mobility at scale, to seamlessly and securely migrate workloads between data centers and clouds. Management is automated and simplified. IT staff can use existing tools and skill sets.

KEY BENEFITS

- Reduce migration risks and costs.
- Business continuity – VMs can be migrated cold, warm (reboot) or live with no downtime and without re-architecting applications.
- Improve IT productivity – bulk migrations to hours or days vs. weeks or months.
- Modernize in incremental steps, or transform on a larger scale.

FEATURES

- Any-to-Any Connectivity
- Large scale migration from legacy to modern DCs
- Secure vMotion and replication based migrations
- WAN Optimization and compression
- High Performance L2 VPNs (Suite B128 bit encryption)
- Proximity routing
- Traffic engineering and load management between multiple WAN links (Internet, MPLs, etc.)
- vROPS Management pack for hybridity
- Multi-site connectivity
- Business continuity

NSX Hybrid Connect

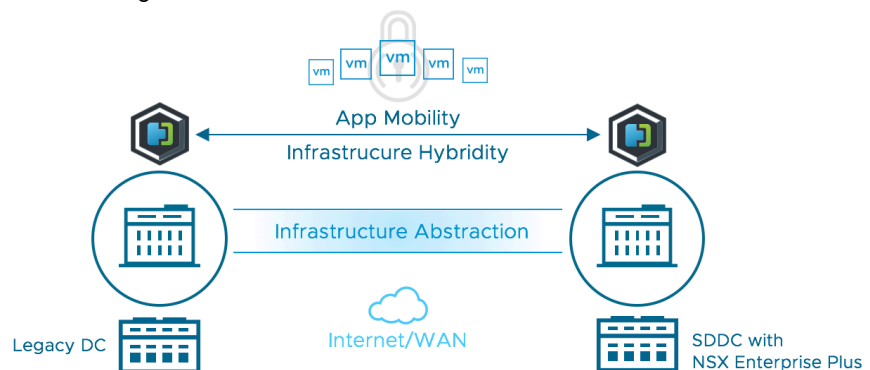
NSX Hybrid Connect provides a hybrid cloud environment for workload mobility across enterprise sites via:

Infrastructure Abstraction: NSX Hybrid Connect abstracts infrastructure and allows you to interoperate across different versions of vSphere software defined data centers (SDDC) and across different network types.

Infrastructure Hybridity: NSX Hybrid Connect provides high performance, multi-site datacenter-to-datacenter interconnectivity capabilities. With NSX Hybrid Connect, customers can set up WAN optimized multi-site IPsec VPN mesh for secure site-to-site connectivity. On top of this secure, optimized fabric, customers can stretch Layer 2 networks and extend datacenters between sites. NSX Hybrid Connect provides high performance large scale L2 extension – up to 5Gbps per extended VLAN/VxLAN – at scale.

Workload Mobility: NSX Hybrid Connect provides large scale application mobility between sites without any impact to application performance, runtime and access. NSX Hybrid Connect provides secure live migration and large scale warm migration, enabling customers to transform their applications and datacenter more rapidly and securely. This migration approach combined with stretched networks allows bi-directional migrations without any network configuration changes, such as, IP address, DNS, MAC address, etc. Additionally, delays due to large scale application dependency mapping are avoided. Customers can move applications without worrying about application dependencies.

NSX Hybrid Connect automates manual migration tasks, allowing your team to easily and safely leverage the cloud with reduced risks and cost. Simple, intuitive UI reduces data center and cloud complexity and eliminates the need for specialized skill and knowledge.



LEARN MORE

<https://www.vmware.com/products/nsx-hybrid-connect.html>

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NSX Hybrid Connect Components: NSX Hybrid Connect is initially deployed as a virtual appliance (Manager). The Manager virtual appliance is responsible for deploying the following components (appliances):

- **Cloud Gateway (CGW) Appliance:** The CGW appliance is responsible for creating encrypted tunnels across enterprise sites for the vMotion and vSphere-based replication traffic.
- **Layer 2 Concentrator (L2C) Appliance:** The Layer 2 Concentrator is a scale out architecture that extends Layer 2 network into the destination site. Each L2C pair can handle upto 4096 stretched networks.
- **WAN optimization Appliance:** The WAN optimization appliance provides compression and data de-duplication across the WAN. It also limits the WAN bandwidth consumed by the migration traffic.

These components are deployed both at the source site and at the destination site.

