

NSX HYBRID CONNECT FAQ

General

Q. What is NSX Hybrid Connect?

A. VMware NSX Hybrid Connect delivers secure infrastructure hybridity between vSphere platforms and enables seamless bi-directional application mobility.

Q. What does NSX Hybrid Connect do?

A. NSX Hybrid Connect enables bi-directional application landscape mobility by creating a layer of hybridity between the source and destination environments. NSX Hybrid Connect can stretch Layer-2 networks via high throughput L2C appliances while encrypting and optimizing traffic that passes over the interconnect. NSX Hybrid Connect migration options include vMotion and bulk migration methods, when combined with stretched networks allows workloads to retain their IP regardless of the environment they are running on. The proxy architecture of NSX Hybrid Connect enables hybridity and migrations without retrofitting applications. As part of the migration process, NSX Hybrid Connect optionally migrates traditional/legacy networking to NSX-based logical networks and logical routing, automating the process of physical to logical network conversion.

Q. What is infrastructure hybridity?

A. Infrastructure hybridity refers to NSX Hybrid Connect's ability to stretch Layer-2 networks across two sites. Stretching a network allows VMs to talk over the same broadcast domain when they exist at different physical locations, removing the need to re-architect your network topology.

Q. Why should I use NSX Hybrid Connect?

A. NSX Hybrid Connect allows applications to span source and destination environments and migrate as needed. NSX Hybrid Connect is designed for extending a source environment into a destination environment to provide additional capacity to workloads without having to re-architect their security, routing or user access dependencies. IT infrastructure is modernized by migrating workloads from older vSphere environments to the latest VMware SDDC IaaS.

Q. Do I need to upgrade my source vSphere environment to migrate workloads?

A. NSX Hybrid Connect can migrate workloads from vSphere versions starting with vSphere 5.0 to the latest SDDC, such as VMware Cloud Foundation, without requiring any vSphere upgrades on the source environment.

Q. Do I need dedicated circuits to start migrating workloads?

A. NSX Hybrid Connect overlays the hybrid interconnect over physical connections. This can be over the internet or dedicated lines. NSX Hybrid Connect includes WAN optimization to increase throughput. Customers can get started over the internet and if required switch when additional links become available.

Q. How is NSX Hybrid Connect licensed?

A. Contact your VMware sales representative for pricing information.

Q. Where can I get more information or test drive NSX Hybrid Connect?

A. Please contact your VMware sales representative.

Technical

Q. What versions of vSphere operate with NSX Hybrid Connect?

A. Source environment needs to be vSphere 5.0+. Destination environment needs to be vSphere 6.0+.

Q. How does NSX Hybrid Connect work with VMware NSX?

A. NSX Hybrid Connect does not require NSX to be present in the source environment. However, if NSX is present, additional features such as distributed fire wall rules are possible.

Q. Does NSX Hybrid Connect encrypt in-flight data?

A. NSX Hybrid Connect secures all in-flight data using Suite-B encryption.

Q. Are NSX security policies migrated along with the workloads?

A. If NSX is present in the source environment and security policies like distributed fire walls have been set on constructs that are portable such as IPs, these will be migrated to the destination environment.

Q. What kind of WAN optimization does NSX Hybrid Connect provide?

A. NSX Hybrid Connect has inbuilt WAN optimization at the transport level.

Q. Does NSX Hybrid Connect support zero downtime migration?

A. NSX Hybrid Connect supports the live migration of VMs with no downtime.

Q. Does NSX Hybrid Connect support multisite interconnects?

A. NSX Hybrid Connect has the ability to connect multiple source environments into the destination environment. NSX Hybrid Connect comes in the NSX Ent Plus bundle which provides a license for a single site pairing. Additional site instances can be purchased if there is a requirement to pair multiple sites simultaneously.

Q. What virtual appliances are deployed by NSX Hybrid Connect?

A. An appliance must be installed in the source and destination to create a site pairing between a source and destination environment manager. Depending on what services are required additional appliances will be deployed, such as a Hybrid Interconnect appliance – this provides a secure hybrid interconnect to the destination environment, a WAN Optimization appliance – this improves performance by utilizing optimization techniques such as de-duplication and line conditioning, Network Extension appliance – this extends Layer-2 networks from source to destination, enabling the movement of workloads without IP and MAC address changes. The appliances must be mirrored in both the source and destination environment.

Q. How do I manage NSX Hybrid Connect?

A. NSX Hybrid Connect registers itself as a vCenter plugin extension and can be accessed from the source environments vCenter web client.

Q. Could I have different management domains?

A. Yes, you can have multiple management domains.

