

VMWARE NSX-T™ MENTORED INSTALL

Service Overview:

At Netnology, we specialize in VMware Network Virtualization Platform (NSX-T™) enablement and implementation services. As part of this VMware NSX-T™ Mentored Install service offer, our subject matter experts (SME) partner with your team to ensure a smooth deployment of the VMware NSX-T™ solution and provide knowledge transfer to equip your staff with the necessary skills to configure and manage the VMware NSX-T™ environment.

Solution Oerview:

VMware NSX-T™ is the network virtualization and security platform that extends software-defined approach to Data Center networking. It provides an infrastructure where security and networking are deployed closer to the applications. With NSX-T™ Data Center, networks can be provisioned and managed independent of underlaying hardware. Being a software-defined in nature, any network topology can be deployed faster. It provides wide rich feature which includes logical switching, routing, VPN, L4-L7 services like firewalling, load balancing, QoS and monitoring. These services are provisioned in virtual network and provides several key benefits to customers including the following:

- Network overlay across the host across on-prem Data Center and cloud.
- Micro-segmentation of applications at workload level.
- Accelerate operational efficiency with the use of automation.
- · Brings network provision time from days to seconds.
- Provides granular application topology view and real time flow monitor.
- Built-in advance threat prevention mechanism on east-west traffic.

Service Benefits:

Netnology has a team of world class engineers who specialize in VMware NSX-T™ solution and are passionate about customer success. Netnology will partner with you to provide:

- Step-by-step guidance from an SME on VMware NSX-T™ solution deployment.
- Configuration and documentation of VMware NSX-T™ solution.
- Knowledge transfer to ensure customer is ready to configure and manage the environment.





Service Scope:

As part of the 10-days Mentored Install engagement, Netnology will help with the following:

- Project Kickoff
- NSX Solution Overview
- NSX-T Data Center Deployment Multi-Site (up to 2 sites)
 - VMware vCenter integration (up to 4 per site)
 - Management and Compute Cluster Preparation
 - NSX-T Manager node deployment (3 per site)
 - NSX-T Global Manager Node deployment (up to 1)
 - o Transport Zone Creation (up to 2 per site)
 - Transport Node Profile Creation N-VDS and VDS (up to 6 per site)
 - Uplink profile Creation (up to 2 per site)
 - o IP Pool Creation
- Logical switching
 - o Geneve tunnel encapsulation
 - Logical Segment Creation (up to 20 per site)
 - VM attachment (up to 20 VMs)
 - o L2 unicast packet flows
- Logical Routing
 - Edge node deployment (up to 4 per site)
 - Edge cluster Creation
 - Logical routing use cases discussion
 - VRF creation (up to 4 per site)
 - Tier-0 and Tier-1 gateway creation
 - Service Routing and Distributed Router
 - Routing protocol (BGP) configuration and packet flows
- Bridge cluster and Profile creation
- Micro-segmentation Native FW
 - Distributed FW architecture discussion
 - o Planning micro-segmentation
 - Distributed firewall section and rule creation (up to 24 per site)
 - o Gateway firewall section and rule creation (up to 24 per site)
- L4-L7 Services Native Services
 - o Load Balancer deployment and Configuration (up to 6 per site)
 - o NAT, DNS, DHCP, IPsec VPN configuration
- Role-Based Access and Backup Management
 - o Functions of VMware Identity Manager
 - VMware Identity Manager Integration
 - o LDAP integration
 - Assign roles to various types of users
 - Back up Management and restoration





- Federation
 - Use case discussion
 - Global Manager Configuration
 - o Stretched T0/T1 Gateway Configuration
 - Site Failover testing
- Monitoring
 - o Installation of NSX Intelligence
 - Discover the flows
 - o Recommendation process for firewall rule recommendation
 - o Publish the recommended rules to security policy
- Firmware Upgrade If Applicable
- Knowledge Transfer

Target Audience:

This service is designed for Network Architects, Network Engineers and Administrators configuring, deploying, and managing the VMware NSX-T™solution.

Pre-requisites:

Customer needs to ensure that all network devices, hosts are rack & stacked, cabled and powered-up, connectivity is established and required firewall port should be opened prior to the kick-off. Customer also needs to acquire the necessary hardware, software, and licenses for the deployment of VMware NSX-T™ solution.

Service Deliverables:

No	Deliverable	Service Details
1.	Project Kickoff	Project Overview
		Solution Overview
2.	Manager & Host	Install and setup NSX-T Manager
	Preparation	Discover and prepare the host for NSX-T
3.	Switching	Create Logical Segment
		Attach VMs to Logical Segment
		 L2 Unicast traffic testing over routed (layer 3) underlay
4.	Routing	Edge node deployment and edge cluster configuration
		Create Tier-0 and Tier-1 gateway
		Configure BGP Routing protocol
		Layer 3 packet flow analysis
		Configure Edge HA, failure detection
5.	Bridging	Create Bridge profiles
		Create Bridge cluster
6.	Security	Implementation of Micro-segmentation use cases



		Creation of Security groups
		Creation of Security rules
		Creation of Gateway firewall sections and rules
7.	Services	Deploy L4-L7 load balancer
		Configure load balancing policy
		Configure NAT
		Configure IPsec VPN
		Configure DNS/DHCP
8.	Role Management	VMware Identity Manager integration
		LDAP integration
		Addition and role definition of users
		Configure role-based access control to restrict user access
9.	Configuration	Schedule/Create Backup policy
	Backup	Test Rollbacks from Backup
		Configure External Backups
10.	Federation	Configure Global Manager
		Configure Site 2
		Stretch T0/T1 gateway across the site
		Packet walk across the stretch sites
		Site failover
11.	Monitoring	Install and NSX Intelligence Appliance
		Flow discovery of VMs
		Recommendation process for firewall rule recommendation
		 Analyze and publish the firewall rule recommendation
12.	Firmware Upgrade	NSX Manager upgrade
		NSX Edge Cluster Upgrade
		Post upgrade validation checks
13.	Knowledge Transfer	Explain to the customer how to configure and manage the solution
		in the lab environment
		A walkthrough of the customer's environment