VMWARE NSX-T™ MENTORED POV PLUS

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 POV Plus 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 Overview:

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 lab environment.

Service Scope:

As part of the 5-days Mentored POV Plus engagement, Netnology will help with the following:

- Project Kickoff
- NSX Solution Overview
- NSX-T Data Center Deployment – (up to 4 hosts/ESXi)
    - VMware vCenter integration (up to 1)
    - Management and Compute Cluster Preparation
    - NSX-T Manager node deployment (up to 3 NSX-T nodes in a cluster)
    - Transport Zone Creation (up to 2)
    - Transport Node Profile Creation (up to 1)
    - Uplink profile Creation (up to 1)
    - IP Pool Creation
- Logical switching
    - Geneve tunnel encapsulation
    - Logical Segment Creation (up to 3)
    - VM attachment (up to 5 VMs)
    - L2 unicast packet flows
- Logical Routing
    - Edge node deployment (up to 2)
    - Edge cluster Creation
    - Logical routing use cases discussion
    - Tier-0 and Tier-1 gateway creation
    - Service Routing and Distributed Router
    - Routing protocol (BGP) configuration and packet flows
- Bridge cluster and Profile creation
- Role-Based Access, Backup Management and Troubleshooting
    - Functions of VMware Identity Manager
    - VMware Identity Manager Integration
    - LDAP integration
    - Assign roles to various types of users
    - Back up Management and restoration
- 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 Preparation	• Install and setup NSX-T Manager • 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.	Role Management	• VMware Identity Manager integration • LDAP integration • Addition and role definition of users • Configure role-based access control to restrict user access
7.	Configuration Backup	• Schedule/Create Backup policy • Test Rollbacks from Backup • Configure External Backups
8.	Knowledge Transfer	• Explain to the customer how to configure and manage the solution in the lab environment • A walkthrough of the customer's environment