

# VMware Virtual Network Segmentation Deployment Service

## AT A GLANCE

The primary objective of this service is a rapid installation, configuration, and high-level validation (deployment) of a reference design for segmentation using VMware NSX-T™ Data Center.

The installation and configuration are conducted jointly with your team members to enhance the learning experience during the deployment.

## KEY BENEFITS

- Learn the fundamentals of securing an application
- Deploy a best practice-based, foundational VMware NSX implementation
- Develop key skills to be able to support a virtual network environment
- Improve operational efficiency and increase network security

## SKU

CON-NSX-NVM-DPY

## Service overview

The VMware Virtual Network Segmentation Deployment Service entails a rapid installation, configuration, and high-level deployment validation of a reference design for segmentation using VMware NSX-T™ Data Center.

This service takes a validated architecture with a predefined design and deliverables to provide a foundation for getting started with virtual networking and segmentation.

This service is ideal for organizations who are just starting out with VMware NSX-T Data Center but are not yet ready for leveraging segmentation.

The service includes deployment of a virtual network solution based on NSX-T Data Center according to a VMware standard architecture that is implemented and verified in the Customer environment. The service includes technical verification of platform prerequisites, deployment of NSX-T Manager cluster, securing an example application leveraging Distributed Firewall, functional testing, and a knowledge transfer session for the Customer.

## Project scope

The scope of the service is defined in the following tables.

VIRTUAL NETWORK SEGMENTATION DEPLOYMENT SERVICE		
SPECIFICATION	PARAMETERS	DESCRIPTION
Data Center Location(s)	Up to one (1)	Data center deployment of NSX-T components.
NSX Manager Cluster	Up to one (1)	Management cluster of three (3) NSX Managers providing high availability of the user interface, API services, and central control plane function.
Hypervisor Hosts Configured as Transport Nodes	Up to one (1)	Hypervisor hosts (ESXi or KVM) with NSX-T modules installed, registered to the NSX-T management plane, and configured as transport nodes
Applications to secure	Up to five (5)	Sample application consisting of no more than five (5) Virtual Machines to be secured leveraging Distributed Firewall rules to allow or deny traffic communication.

Backup scheduling	Up to one (1)	Backup scheduling configuration to enable automatic backup of the system to external server.
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### Out of scope

The following are out-of-scope items for this project.

#### General

- Installation and configuration of custom or third-party applications and operating systems on deployed virtual machines
- Installation and configuration of custom or third-party applications and operating systems on deployed virtual machines.
- Operating system administration including the operating system itself or any operating system features or components.
- Management of change to virtual machines, operating systems, custom or third-party applications, databases, and administration of general network changes within Customer control.
- Remediation work associated with any problems resulting from the content, completeness, accuracy, and consistency of any data, materials, or information supplied by Customer.
- Installation or configuration of VMware products not included in the scope of this document.
- Installation and configuration of third-party software or other technical services that are not applicable to VMware components.
- Installation and configuration of Customer-signed certificates.
- Configuration of VMware products used for the service other than those implemented for the mutually agreed to use cases.
- Customer solution training other than the defined knowledge transfer session.

### Estimated Schedule

VMware estimates that the duration of this project will not exceed two (2) weeks. VMware consulting services will be performed according to a schedule agreed to by both parties. Typically, consulting services are performed during normal business hours and workdays (weekdays and non-holidays).

## Project Activities

### Phase 1: Initiate

VMware hosts a project initiation call with key Customer and VMware stakeholders.

Topics to be discussed include:

- Project business drivers, scope, and objectives
- Project deadlines, timelines, scheduling, and logistics
- Identification of key Customer team members who VMware will work with to accomplish the tasks defined in this datasheet
- Technology prerequisites necessary for a successful project, including review of the Service Checklist for the VMware solution
- Confirmation of team members and contact details will be exchanged to schedule the project kickoff meeting

Deliverables include:

- One project initiation call

### Phase 2: Plan

VMware leads a project kickoff meeting with Customer to assess prerequisite completion readiness, review the VMware standard architecture, and confirm project milestone dates.

The objectives of the meeting are as follows:

- Introducing the VMware team, roles, and responsibilities
- Describing the project goals, phases, and key dates
- Explaining the expected project results and deliverables
- Agreeing on communication and reporting process
- Validating the project expectations and clarifying roles and responsibilities
- Confirming prerequisites are met as detailed in the solution checklist for specified solutions.
- Presenting the solution overview for specified solutions including expected project results and deliverables.
- The VMware Project Manager and the Customer Project Manager collaborate to develop the project plan.

After Customer and VMware agree on project expectations, the VMware Project Manager and the Customer Project Manager work together on the detailed project plan.

Deliverables include:

- Communications plan
- One (1) project kickoff meeting
- Project Plan
- Solution checklist
- Solution overview presentation

### Phase 3: Execute

The key activities for this phase are organized into Deploy and Knowledge Transfer subphases.

In the Deploy subphase, VMware deploys, documents, and validates the technology components according to the specifics. VMware does the following:

- Installs and configures the VMware technologies according to the specifications
- Finalizes the Configuration Workbook

#### Deliverables

- Solution specification workbook
- Solution verification workbook

In the Knowledge Transfer subphase, VMware conducts knowledge transfer sessions covering the design, implementation, and operational considerations relating to the scope of this project. VMware does the following:

- Conducts up to two (2) hours of knowledge transfer sessions for appropriate Customer representatives.
- Provides an adoption guide document(s) containing operational guidance for the specified solutions.

Note: For the avoidance of doubt, the Knowledge transfers herein do not comprise VMware product training or certification courses as offered by the VMware Education unit – (<http://mylearn.vmware.com/mgrreg/index.cfm>).

#### Deliverables

- Adoption guide document
- Knowledge transfer workshop presentation
- Up to two (2) hours of knowledge transfer sessions

### Phase 4: Close

VMware conducts a closure meeting of up to 2 hours with the Customer covering project status, reviewing completions, next steps, and how to engage with VMware support.

#### Deliverables

- Engagement summary presentation
- One (1) closure meeting

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This service must be delivered and accepted within the first 12 months of purchase, or the service will be forfeited. Pricing for this service excludes travel and other expenses. For detailed pricing, contact your local VMware representative.

## Appendix

### Service checklist

The following Customer stakeholders are required to deliver this service:

- Network Architecture team leads
- Network Operations team leads
- Infrastructure Architect
- VMware operations team leads
- Enterprise Architect

The following are the technical prerequisites to deliver this service:

- Number of IP subnets required. Defined minimum: 1
- Minimum number of hosts required. Defined minimum: 4
- Number of 10Gb Ethernet physical NIC interfaces recommended: four (4) per host.
- Virtual Appliance Virtualized CPU Capacity (GHz). Defined minimum: Enough CPU capacity must be available to deploy three (3) NSX Manager nodes
- Virtual Appliance Virtualized RAM Capacity (GB). Defined minimum: Enough memory capacity must be available to deploy three (3) NSX Manager nodes: 72 GB
- Shared Storage must be provisioned. Defined minimum: Enough storage capacity must be available to deploy three (3) NSX Manager nodes: 900 GB
- Maximum network latency between nodes in an NSX Manager cluster: 10ms.
- Maximum network latency between NSX Managers and Transport Nodes: 150ms.
- NTP must be setup and time verified to be correct.
- DNS must be configured and tested for forward, reverse, short, and long name resolution.
- An SFTP (Secure File Transfer Protocol) server with a SHA256 hashed ECDSA key for the fingerprint to be configured as a backup destination.
- Hardware must be verified against the VMware compatibility guide and VMware NSX-T Data Center official documentation.

