

# VMWARE MICRO-SEGMENTATION AND SECURITY DEPLOY SERVICE

## AT A GLANCE

VMware NSX for vSphere expands the power of virtualization and automation to the data center network, which is fully provisioned in software. Once provisioned, administrators can use VMware NSX for vSphere to implement microsegmentation, which establishes virtual firewalls around particular workloads or network segments. The VMware Micro-Segmentation and Security Deploy Service helps customers rapidly deploy a micro-segmentation solution based on a validated architecture with a predefined design and deliverables.

## KEY BENEFITS

- Expands security protections and capabilities within the virtual data center
- Shifts security from perimeter defense to fine-grained isolation
- Provides granular, dynamic control over guest security policies down to the individual virtual NIC
- Increases agility with a security solution that automatically deploys and dynamically adapts to changing conditions

## Overview

The *VMware Micro-Segmentation and Security Deploy Service* entails a rapid installation, configuration, and high-level validation (deployment) of a reference design for micro-segmentation using VMware NSX® for vSphere®. This project includes the following module:

- **Micro-Segmentation Foundation.** The Micro-Segmentation Foundation module takes a validated architecture with predefined design and deliverables to provide a foundation for the micro-segmentation function. The service includes technical validation of platform prerequisites, the deployment of micro-segmentation technology based on NSX for vSphere, validation of NSX for vSphere functionality, and a knowledge transfer session for Customer. The installation and configuration is conducted jointly with Customer team members to enhance the learning experience during the deployment.

The following are the high-level activities included in this project:

- **Deploy.** Deployment and validation of technology components.
- **Knowledge Transfer.** Knowledge transfer of the design, deployment and operations procedures.

This project relates to the following VMware products:

### Service Capabilities

This service contributes to the full development of the following capabilities:

### Virtual Infrastructure

- Infrastructure monitoring with performance and capacity

### IT Outcomes Developed

The service being delivered by VMware Professional Services contributes to the delivery of the following IT outcomes:

- Data center virtualization and hybrid cloud extensibility
- Security controls native to infrastructure

## Project Scope

The scope of the service includes the following:

### Micro-Segmentation Foundation

SPECIFICATION	PARAMETERS	DESCRIPTION
<b>Micro-segmentation Deployment</b>	Up to one (1)	Implementation for one (1) data center.
NSX Manager	Up to one (1)	Installation and configuration of a VMware NSX Manager™ instance.
Firewall Rule(s)	Up to fifteen (15)	Installation and configuration of sample firewall rules to support infrastructure service delivery. Configured only for the distributed firewall.
Security Group(s)	Up to eight (8)	Installation and configuration of security group(s) defined.
<b>Micro-segmentation Workload(s)</b>	Up to one (1)	Example of micro-segmentation configured on the same logical subnet.
Virtual Machine(s)	Up to two (2)	Configuration of workload virtual machines with up to two (2) communication flows between them that can be allowed or blocked individually.

### Out of Scope

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

#### General

- 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.

**Micro-Segmentation Foundation**

- NSX technologies not specifically mentioned in this data sheet. Examples include bridging, VPN, load balancing, activity or flow monitoring, service composer and all underlying operations, identity or Layer 3 Edge firewall, NSX data security, and VMware vShield Endpoint™.
- Analyzing customer workloads for use with an NSX for vSphere environment.
- Operationalizing the NSX for vSphere production environment. “Operationalizing” refers to operational handover activities such as development of run books, procedural documentation, enabling optics, management system integration, and the like.

**Estimated Schedule**

VMware estimates that the duration of this project will not exceed one week. VMware consulting services will operate 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**

After the statement of work (SOW) is signed and the purchase order is received, the VMware Project Manager 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 data sheet.
- 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**

- Initial pre-engagement call

**Phase 2: Plan**

VMware leads a project kickoff meeting with Customer project sponsors and stakeholders to review expectations about the purpose of the engagement, the delivery approach, and timelines.

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 processes.
- Validating the project expectations and clarifying roles and responsibilities.
- 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**

- Project kickoff meeting minutes

**Phase 3: Execute**

The key activities for this phase are organized in the following sub-phases:

- Deploy
- Knowledge Transfer

**Deploy**

VMware deploys, documents, and validates the technology components according to the design.

VMware does the following:

- Installs and configures the VMware technologies according to the design.
- Finalizes the *Configuration Workbook* with physical design elements.
- Executes service and service component functional test validation.

**Deliverables**

- Micro-segmentation and Security Configuration Workbook
- Micro-segmentation and Security Validation Workbook

**Knowledge Transfer**

VMware conducts knowledge transfer sessions covering the design, deployment procedures, and operations procedures relating to the technologies in the scope of this project.

VMware does the following:

- Conducts technical knowledge transfer sessions for administrators and operators.
- Conducts up to XX hours of knowledge transfer sessions.

**Deliverables**

- Micro-segmentation and Security Knowledge Transfer session

**Phase 4: Close**

The VMware Project Manager conducts a closure meeting of up to XX hours with the Customer covering project status, reviewing completions, next steps and how to engage further with VMware.

**Deliverables**

- Project closure meeting presentation

**Appendix – Service Checklist**

The following are the prerequisites for this service engagement:

- A minimum of two (2) vSphere clusters with management function separated.
- A management vSphere cluster with a minimum of one (1) vSphere host with no maximum number of vSphere hosts specified.
- A payload vSphere cluster with a minimum of one (1) vSphere host and a maximum of fourteen (14) vSphere hosts specified.
- MTU of 1600 or larger is strongly recommended both on the physical and virtual networks.

## FOR MORE INFORMATION OR TO PURCHASE VMWARE PRODUCTS

### CALL

877-4 -VMWARE (outside North America, +1-650 -427-5000),

### VISIT

<http://www.vmware.com/products>, or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the documentation.

- VMware vSphere Distributed Switch™ is required. Workloads to be protected by the distributed firewall must be connected to distributed port groups. vSphere standard virtual switch is not supported by the NSX distributed firewall.

The following stakeholders are required to deliver this service:

- Enterprise Architect
- Infrastructure Architect
- Network Architecture team leads
- Firewall/DMZ team leads
- Security policy team leads

The following are the technical prerequisites required to deliver this service:

- Number of Hosts 2
- vCenter Version 5.5 U3/6.0 Update 2
- ESXi Version 5.5 U3/6.0 Update 2
- Windows Desktop OS Version 7

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## About VMware Professional Services

VMware Professional Services transform IT possibilities into business outcomes. Our comprehensive portfolio of services uncovers and exploits the unique opportunities made possible by VMware technology. Drawing on our unparalleled product expertise and customer experience, we collaborate with your team to address the technical, people, process, and financial considerations for IT transformation to deliver results that are positive, tangible, and material to IT and your business.

