

# VMware Virtualization Deploy Service

## AT A GLANCE

Together, VMware vSphere enables you to aggregate server resources into logical pools that can be allocated on demand. The VMware Virtualization Deploy Service helps you to optimize infrastructure agility, availability, and security by quickly deploying server virtualization. The result is a comprehensive VMware vSphere virtual infrastructure based on validated reference designs, deployed in a production environment.

## KEY BENEFITS

- Reduce CapEx and OpEx by consolidating infrastructure without sacrificing performance
- Limit unplanned downtime and eliminate planned downtime for server maintenance
- Respond quickly to changing business needs without loss of security or control
- Deliver zero-touch infrastructure with built-in availability, scalability, and performance guarantees
- Leverage existing IT assets alongside next-generation IT services

## SKU

CON-VIRT-DPY

## Overview

The VMware Virtualization Deploy Service provides a comprehensive deployment of virtual infrastructure based on a VMware standard architecture and validation of the service using the capabilities provided by VMware vSphere®.

The project includes the following modules:

**ESXi Host Deploy:** Deployment of the VMware ESXi™ hosts to support the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.

**vCenter Infrastructure Deploy:** Deployment of the Platform Services Controller and VMware vCenter Server® infrastructure for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.

**vSphere Network Infrastructure Deploy:** Deployment of the core network configuration for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.

**vSphere Storage Infrastructure Deploy:** Deployment of the storage infrastructure for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.

**High Availability Deploy:** Deployment of the VMware vSphere High Availability (HA) feature for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.

**Dynamic Resourcing Deploy:** Deployment of the out-of-the-box Dynamic Resourcing technologies including VMware vSphere vMotion®, VMware vSphere Distributed Resource Scheduler™ (DRS), and VMware vSphere Distributed Power Management™ (DPM) for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.

**Virtual Machine Deploy:** Deployment of the virtual machine configurations for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.

## High-level Activities

**Implement:** Deployment and validation of technology components.

**Knowledge Transfer:** Knowledge transfer of the design, deployment, and operations procedures.

This project relates to the VMware vSphere® 7.0.x product.

## Project scope

The scope of the service is defined in this section.

### ESXi Host Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
ESXi hosts deployed	Up to thirty-two (32)	ESXi hosts deployed and configured.

### vCenter Infrastructure Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
Physical sites deployed	Up to one (1)	Physical data center locations deployed and configured.
Non-High Availability Platform Services Controller appliances deployed	Up to two (2)	Platform Service Controller appliances deployed and configured with no Platform Services Controller high availability.
vCenter server appliance instances deployed	Up to two (2)	vCenter server appliance instances deployed and configured.
<b>vSphere Operational Enablement Activities</b>		Additional activities performed in conjunction with this module include:
vSphere Update Manager Workshop	Up to one (1)	Demonstrate how to use vSphere Update Manager to update ESXi hosts with patches.

### vSphere Network Infrastructure Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
vSphere distributed switches	Up to two (2)	vSphere distributed switches created and configured.
Network port groups	Up to six (6)	Network port groups created and configured.
VMkernel network adapters	Up to two (2)	VMkernel network adapters and IP Addresses needed per host.
Network I/O Control enablement	Up to two (2)	Distributed switches to have VMware vSphere Network I/O Control enabled.

### vSphere Storage Infrastructure Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
NFS Storage Configured	Up to thirty-two (32)	ESXi hosts configured for NFS storage.

## High Availability Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
vSphere HA clusters	Up to two (2)	vSphere High Availability enabled clusters configured.
<b>vSphere Operational Enablement Activities</b>		Additional activities performed in conjunction with this module include:
High Availability Failover Workshop	Up to one (1)	Demonstrate vSphere HA failover in the environment.

## Dynamic Resourcing Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
vMotion enabled hosts	Up to thirty-two (32)	vMotion enabled hosts configured.
vSphere DRS clusters	Up to two (2)	DRS enabled clusters configured.
<b>vSphere Operational Enablement Activities</b>		Additional Activities performed in conjunction with this module include:
vMotion Workshop	Up to one (1)	Demonstrate the vSphere vMotion capabilities of the environment.

## Virtual Machine Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
Virtual Machine Configurations	Up to four (4)	Virtual machine configurations deployed with no operating system installed that map to small, medium, large, and extra-large sizing for virtual machines.
<b>vSphere Operational Enablement Activities</b>		Additional activities performed in conjunction with this module include:
Virtual Machine Creation and VMware Tools Workshop	Up to one (1)	Demonstrate VM creation and discuss VMware Tools.

## Out of scope

### General

- Installing and configuring 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.
- Managing 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.
- Installing or configuring VMware products not included in the scope of this document.
- Installing or configuring third-party software or other technical services that are not applicable to VMware components.
- Installing or configuring Customer-signed certificates.
- Configuring 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.

### ESXi Host Deploy

- Planning or designing a custom virtualization solution.
- Documenting or performing any migration activities, such as physical to virtual or virtual to virtual migration.
- Business continuity / disaster recovery design and deployment beyond the core capabilities of vSphere.
- Analyzing capacity for physical servers.

### vCenter Infrastructure Deploy

- Planning or designing a custom virtualization solution.
- Documenting or performing any migration activities, such as physical to virtual or virtual to virtual migration.
- Business continuity / disaster recovery design and deployment beyond the core capabilities of vSphere.
- Analyzing capacity for physical servers.

### vSphere Network Infrastructure Deploy

- Planning or designing a custom network infrastructure solution.
- Documenting or performing any migration activities between networks.
- Business continuity / disaster recovery design and deployment beyond the core capabilities of vSphere.
- VMware NSX design.

### vSphere Storage Infrastructure Deploy

- Planning or designing a custom storage infrastructure solution.
- Documenting or performing any migration activities between storage arrays.
- Configuring Physical Storage Arrays outside of the ESXi configuration. Storage Vendor needs to be contacted for configuration-specific details.

- Business continuity / disaster recovery design and deployment beyond the core capabilities of vSphere.

**High Availability Deploy**

- Planning or designing a custom High Availability solution.
- Configuring external systems, such as networking and storage, to support vSphere HA.

**Dynamic Resourcing Deploy**

- Planning or designing a custom dynamic resourcing design.
- Configuring external systems, such as networking and storage, to support vSphere vMotion, vSphere DRS, or vSphere DPM features.

**Virtual Machine Deploy**

- Planning or designing a custom virtual machine design.
- Configuring external systems, such as networking and storage, to support the virtual machine configuration.
- Installing operating systems to example virtual machines.

**Estimated Schedule**

VMware estimates that the duration of this project will not exceed two (2) weeks. 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).

ACTIVITIES / WEEK	1	2
Phase 1: Initiate		
Phase 2: Plan		
Phase 3.1: Execute: Asses		
Phase 4: Close		

**Project Activities**

**Phase 1: Initiate**

The VMware Project Manager hosts one (1) 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.
- Participating team members are confirmed and contact details are exchanged to schedule the project kickoff meeting.

**Deliverables**

- One (1) project initiation call

### Phase 2: Plan

VMware leads one (1) project kickoff meeting with Customer project sponsors and stakeholders to review expectations about the purpose of the engagement, the delivery approach, and estimated timelines.

The objectives of the meeting are:

- Introduce the VMware team, roles, and responsibilities.
- Describe the project goals, phases, and key dates.
- Agree on communication and reporting process and create a communications plan.
- Validate the project expectations and clarify roles and responsibilities.
- Confirm prerequisites are met as detailed in the solution checklist for specified solutions.
- Present 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.

#### Deliverables

- Virtual Infrastructure Solution Checklist
- Virtual Infrastructure Solution Overview presentation
- Communications Plan
- One (1) project kickoff meeting
- Project Plan

### Phase 3: Execute

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

- Implement
- Knowledge transfer

#### Phase 3.1: Implement

VMware implements the solution according to the VMware solution specification.

VMware does the following:

- Implements the specified solution as detailed in the specification workbooks.
- Verifies the implementation and documents the results in the verification workbooks for the specified solutions.

#### Deliverables

- Virtual Infrastructure Solution Specific Workbook
- Virtual Infrastructure Solution Verification Workbook

#### Phase 3.2: Knowledge Transfer

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

VMware does the following:

- Conducts up to eleven (11) hours of knowledge transfer sessions for appropriate Customer representatives.

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- Provides an Adoption Guide Document (s) that contain operational guidance for 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

- Up to eleven (11) hours of knowledge transfer sessions
- Virtual Infrastructure Adoption Guide document
- Virtual Infrastructure Knowledge Transfer Workshop presentation

#### Phase 4: Close

The VMware Project Manager conducts one (1) closure meeting with the Customer covering project status, next steps, and how to engage further with VMware.

#### Deliverables

- Engagement summary presentation
- One (1) closure meeting

### Service Checklist

The Customer is responsible for executing all items discussed in the Service Checklist prior to arrival of the VMware Consultants on site.

The participation of the following Customer stakeholders is required for the Service to be performed:

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

The following prerequisites are required to enable VMware to perform this service:

- Number of hosts required. Defined minimum: 8.
- Number of hosts per cluster. Defined minimum: 4
- ESXi Version. Defined Minimum: vSphere 7.0 or above.
- vCenter Server version. Defined Minimum: vSphere 7.0 or above.
- DNS must be configured and tested for forward, reverse, short and long name resolution.
- Active Directory required.
- Number of IP addresses required. Defined minimum 2 per host.
- NTP must be setup and time verified to be correct.
- Number of VLANS configured. Defined minimum: 2 (Management, and vMotion).
- Hardware must be verified against the VMware compatibility guide.
- Shared Storage must be provisioned. Defined minimum: 1.
- Static IP addressing required.

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