



# VMware Virtualization Deployment

## At a glance

The VMware Virtualization Deployment service helps you quickly deploy server virtualization. The result is a comprehensive VMware vSphere virtual infrastructure based on validated reference designs, deployed in a production environment.

## Key benefits

- Quickly deploy a virtualized environment
- Take advantage of a validated architecture from VMware that uses and proven best practices.
- Mitigate risk by leveraging experienced consultants

## SKU

CON-VIRT-DPY

## Service overview

The VMware Virtualization Deployment 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 service includes the following:

- 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.
- Deployment of the VMware vCenter Server® infrastructure for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.
- 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.
- Deployment of the storage infrastructure for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.
- 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.
- 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.
- Deployment of example virtual machine configurations for the virtualization solution according to a VMware standard architecture that is implemented and validated in the Customer environment.
- Deployment and validation of technology components.
- Knowledge transfer of the design, deployment, and operations procedures.

This project relates to the VMware vSphere® 7.x or 8.x product versions.

## Project scope

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

ESXi host deployment		
Specification	Parameters	Description
ESXi hosts deployed	Up to thirty-two (32)	ESXi hosts deployed and configured.

vCenter Server deployment		
Specification	Parameters	Description
Physical sites deployed	Up to one (1)	Physical data center locations deployed and configured.
VMware vCenter Server Appliance™ instances deployed	Up to two (2)	vCenter Server Appliance instances deployed and configured.
vSphere Lifecycle manager workshop	Up to one (1)	Demonstrate how to use vSphere Lifecycle Manager to update ESXi hosts with patches.

vSphere network infrastructure deployment		
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 deployment		
Specification	Parameters	Description

NFS storage configured	Up to thirty-two (32)	ESXi hosts configured for NFS storage.
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### High availability deployment

Specification	Parameters	Description
vSphere HA clusters	Up to two (2)	vSphere high availability enabled clusters configured.
High availability failover workshop	Up to one (1)	Demonstrate vSphere HA failover in the environment.

### Dynamic resourcing deployment

Specification	Parameters	Description
vMotion enabled hosts	Up to thirty-two (32)	vMotion enabled hosts configured.
vSphere DRS clusters	Up to one (1)	DRS enabled clusters configured.
vMotion workshop		Demonstrate the vSphere vMotion capabilities of the environment.

### Virtual machine deployment

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.
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 deployment**

- 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 deployment**

- 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 deployment**

- 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 deployment**

- 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 deployment**

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

### **Dynamic resourcing deployment**

- 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 deployment**

- 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 Professional 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**

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.
- Provides an Adoption Guide Document 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 [VMware Learning](#).

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

## Learn more

Visit [vmware.com/services](https://vmware.com/services).

## Appendix

### 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.x or 8.x.
- vCenter Server version. Defined Minimum: vSphere 7.x or 8.x.
- 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.

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.