

# VMware vSAN Deployment

## End of Sale March 1, 2024

### At a glance

The VMware vSAN Deployment service quickly deploys vSAN and the underlying supporting virtual infrastructure.

### Key benefits

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

### SKU

CON-VSAN-DPY

### Service overview

The VMware vSAN™ Deployment service provides a base deployment of VMware vSAN and the underlying supporting virtual infrastructure 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 according to a VMware standard architecture that is implemented and validated in the Customer environment.
- Deployment of the core network configuration for according to a VMware standard architecture that is implemented and validated in the Customer environment.
- Deployment of VMware vSAN for shared storage according to a VMware standard architecture that is implemented and verified in the Customer environment.
- Deployment of the VMware vSphere High Availability (vSphere HA) and VMware vSphere Fault Tolerance (vSphere FT) 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) 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 service requires the following products:

- VMware vSphere 7.x or 8.x
- VMware vSAN 7.x or 8.x

## Project scope

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

ESXi host deployment		
Specification	Parameters	Description
ESXi hosts deployed	Up to sixteen (16)	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.
vCenter Server instances deployed	Up to one (1)	vCenter Server 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 one (1)	vSphere distributed switches created and configured.
Network port groups	Up to four (4)	Network port groups created and configured.
VMkernel network adapters	Up to three (3)	VMkernel network adapters and IP Addresses needed per host.

vSAN deployment		
Specification	Parameters	Description
vSAN clusters	Up to one (1)	vSAN enabled clusters deployed.

Storage policy workshop	Up to one (1)	Discuss vSAN storage policies and their importance to vSAN operational management. Create a policy suited to the environmental requirements.
Basic vSAN monitoring workshop	Up to one (1)	Discuss basic monitoring of a vSAN cluster. Review out-of-the-box dashboards and metrics for the cluster.
vSAN maintenance mode workshop	Up to one (1)	Discuss performing maintenance on hosts in a vSAN cluster. Review the impact of maintenance mode on hosts and how to properly power cycle a vSAN cluster.
Hardware, driver, and firmware maintenance workshop	Up to one (1)	Discuss hardware, driver, and firmware maintenance for a vSAN cluster. Show how to update the compatibility list and discuss considerations for ongoing maintenance of these items.
Hardware failures workshop	Up to one (1)	Discuss different types of hardware failures for a vSAN cluster. Review disk failures and the impact to a cluster.

### High availability deployment

Specification	Parameters	Description
vSphere HA clusters	Up to one (1)	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 sixteen (16)	vMotion enabled hosts configured.
vSphere DRS clusters	Up to one (1)	DRS enabled clusters configured.

vMotion workshop	Up to one (1)	Demonstrate the vSphere vMotion capabilities of the environment.
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## 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 Server 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.

### **vSAN deployment**

- Planning or designing a custom vSAN solution.
- Configuring vSAN Stretch Clustering.
- Configuring vSAN two-node clustering, including ROBO.

### **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.

## **Estimated schedule**

VMware estimates that the duration of this project will not exceed one (1) week. VMware 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: 4.
- 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
- VMware vSAN version. Defined Minimum: vSAN 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 3 per host (Management vMotion and vSAN Traffic).
- NTP must be setup and time verified to be correct.
- Number of VLANS configured. Defined minimum: 3 (Management vMotion and vSAN Traffic).
- 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.