

VMware vSAN Small Scale Deployment Service (12 Host)

AT A GLANCE

VMware vSAN™ is a fast, resilient, easy-to-manage software-defined storage platform that delivers flash-optimized, hyper-converged storage for any application at a fraction of the cost of traditional solutions. The VMware vSAN Small Scale Deployment Service (12 host) remotely configures vSAN, VMware ESXi Hosts, vCenter Server and supporting components, VMware vSphere High Availability, VMware vMotion, and VMware Distributed Resource Scheduler (DRS).

KEY BENEFITS

- Accelerates responsiveness to changing business demands with simplified infrastructure, automated management, flash optimizations, and granular scaling
- Reduces the total cost of ownership by consolidating core data center functions on x86 hardware and vSphere
- Creates an IT environment that is prepared for future IT needs by delivering a software-defined infrastructure that leverages the latest hardware technologies

SKU

VA-PS-VSAN-SSDPY-12

Overview

The VMware vSAN Small Scale Deployment Service (12 host) provides a foundational deployment of VMware vSAN™ and the underlying supporting virtual infrastructure. A VMware consultant installs this service remotely using the capabilities provided by VMware vSphere®. This service is available in Standard and Remote Office Branch Office (ROBO) architectures and includes configuring vSAN, VMware ESXi™ hosts, VMware vCenter Server® and supporting components, VMware vSphere High Availability, VMware vSphere vMotion®, and VMware vSphere Distributed Resource Scheduler™ (DRS). 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 VMware vCenter Server infrastructure, including the VMware Platform Services Controller™, 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.

vSAN Deploy: Deployment of the environment using VMware vSAN™ for shared storage according to one of two VMware standard architectures that can be implemented and verified in the Customer environment. As a part of the engagement, one of the following two architectures has to be chosen:

- A Standard Cluster (standard scope below)
- A 2-node ROBO configuration (ROBO scope below)

High-level Activities

Deploy: Deployment of the VMware standard architecture and validation of technology components.

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

This project relates to the following vSphere products:

- VMware vSphere
- VMware vSAN

Project scope

The scope of the service includes the specifications as described in this section. Only one of the two architectures, either the standard or the ROBO option, can be chosen for this service. The service includes the following scope as appropriate to the individual architectures:

ESXi Host Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
ESXi Host Deployment (Standard Option)		
ESXi hosts deployed	Up to twelve (12)	ESXi hosts deployed and configured.
ESXi Host Deployment (ROBO Option)		
ESXi hosts deployed	Up to six (6)	ESXi hosts deployed and configured in remote sites.

vCenter Infrastructure Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
vCenter Infrastructure Deployment (Standard Option)		
Physical sites deployed	Up to one (1)	Physical data center locations deployed and configured.
vCenter Server Appliance instances deployed	Up to one (1)	VMware vCenter Server Appliance instances deployed and configured with an embedded Platform Services Controller.
vSphere HA clusters configured	Up to one (1)	vSphere HA enabled clusters configured.
vMotion enabled hosts configured	Up to twelve (12)	vMotion enabled hosts configured.
vSphere DRS clusters configured	Up to one (1)	DRS enabled clusters configured.
vCenter Infrastructure Deployment (ROBO Option)		
Physical central sites deployed	Up to one (1)	Central data center location deployed and configured.
Physical Remote sites deployed	Up to three (3)	Remote site data center locations deployed and configured.
vCenter Server Appliance instances deployed	Up to one (1)	VMware vCenter Server Appliance instances deployed and configured with an embedded Platform Services Controller, if creating a secondary ROBO management cluster.

SPECIFICATION	PARAMETERS	DESCRIPTION
vSphere HA clusters configured	Up to one (1)	vSphere HA enabled clusters configured.
vMotion enabled hosts configured	Up to six (6)	vMotion enabled hosts configured.
vSphere DRS clusters configured	Up to one (1)	DRS enabled clusters configured.

vSphere Network Infrastructure Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
Virtual Network Infrastructure Deployment Standard and ROBO Options		
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 Deploy

SPECIFICATION	PARAMETERS	DESCRIPTION
vSAN Deployment (Standard Option)		
vSAN clusters	Up to one (1)	vSAN enabled clusters deployed.
vSAN Deployment (ROBO Option)		
vSAN clusters	Up to three (3)	vSAN enabled clusters deployed in a 2-node ROBO configuration.
vSAN witness appliances	Up to three (3)	vSAN witness appliances deployed in a remote site.

Out of scope

The following items are out of scope for this project.

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.
- Documentation and deliverables not in the English language.

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.
- Deploying vSphere from the Unified Extensible Firmware Interface (UEFI).

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.
- VMware NSX® design.
- Planning or designing a custom high availability design.
- Configuring external systems, such as networking and storage, to support vSphere HA and VMware vSphere Fault Tolerance features.
- Planning or designing a custom dynamic resourcing design.
- Configuring external systems, such as networking and storage, to support the vSphere vMotion, DRS, or VMware vSphere Distributed Power Management™ (DPM) features.

- *ROBO Option Only*: Deploying the central management site. This service assumes that a centralized management site with appropriate shared storage allocation is completed prior to the start of the service.

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.
- *ROBO Option Only*: Configuring inter-site network connectivity. It is assumed that the network between central and remote sites has been configured prior to the start of this service.

vSAN Deploy

- Planning or designing a custom vSAN solution.
- *Standard Option Only*: Configuring vSAN Stretch Clustering or 2-node configurations.
- Configuring custom storage policies.
- Configuring vSAN Native Encryption.

Estimated Schedule

This is a fixed-fee service, requiring an estimated fifty-two (52) hours of effort over a duration of sixty (60) days after project kick-off. VMware Professional Services are performed during normal business hours and workdays (weekdays and non-holidays).

Project Activities

Phase 1: Initiate

VMware hosts one (1) project initiation call with key Customer 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.
- Customer technology prerequisites necessary for a successful project, including review of the Service Checklist for the VMware solution.

Deliverables

- One (1) project initiation meeting
- Prerequisites checklist

Phase 2: Plan

VMware leads one (1) project kickoff meeting with Customer project sponsors and stakeholders to assess prerequisite completion readiness, review the VMware standard architecture, and confirm project milestone dates.

The objectives of the meeting are:

- Introduce the VMware team, roles, and responsibilities.

- Describe the project goals, phases, and key dates.
- Review technical prerequisites completion readiness.
- Explain the expected project results and deliverables.

Deliverables

- One (1) project kickoff meeting
- VMware standard architecture
- vSAN Deploy Kickoff presentation

Phase 3: Execute

VMware deploys the VMware standard architecture and validates the technology components.

VMware does the following:

- Installs and configures the VMware technologies according to the VMware standard architecture.
- Finalizes the Configuration Workbook with physical design elements.
- Executes service and service component functional test validation.
- Conducts technical knowledge transfer sessions for administrators and operators

Deliverables

- Virtualization Configuration Workbook
- Virtualization Installation and Configuration Procedures document
- Knowledge Transfer presentation

Phase 4: Close

VMware conducts one (1) closure meeting with the Customer covering project status, reviewing completions, next steps, and how to engage with VMware support.

Deliverables

- One (1) closure meeting
- Transition to Customer Support

[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:

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

The following prerequisites are required for this service engagement:

- Physical hardware, including servers, storage, and networking, must be procured, installed, and confirmed to be operational.
- ROBO Option Only: Network connectivity between the central and remote sites is configured, tested, and functional.

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- ROBO Option Only: Central management vCenter Server is provisioned and available with enough storage resources to host the vSAN Witness appliance. This service does not include installing and configuring the central site vCenter or ESXi hosts.

The following are required for component installation (ESXi host and vCenter Server) before the VMware consultant arrives on site:

- Static IP address assignment.
- Configured DNS entries.
- Host names tested for forward, reverse, short name, and long name resolution.
- Access to an NTP server that can be used for configuration
- Physical network provisioned for the appropriate VLANs for ESXi configuration completed. Standard configuration of ESXi hosts includes distributed virtual switches and VMkernel ports configured and tested to support management traffic on a dedicated VLAN, vMotion on a dedicated VLAN, and vSAN traffic on a dedicated VLAN.
- The hardware must be supported as listed on the VMware vSAN Compatibility List.
- Supported remote access protocols must be configured, such as DRAC, ILO, and so on.

The following technical prerequisites are required to deliver this service:

- Standard Option Only: Number of Hosts twelve (12).
- ROBO Option Only: Number of Hosts six (6).
- vCenter Version 7.0 or above.
- ESXi Version 7.0 or above.
- DNS must be configured and tested for forward, reverse, short and long name resolution.
- Active Directory required.
- Number of 10Gb Ethernet Physical NIC interfaces: Required 1.
- Number of IP subnets: Required 3.
- Number of VLANS: Required 3.
- ROBO Option Only: Network latency for vSAN Witness Appliance between Central and Remote sites: Required <500ms.
- ROBO Option Only: Network latency for vSAN Witness Appliance between Central and Remote sites: Required <5ms.

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