

VMware vSAN Deployment



In an ever-changing technological landscape, it is imperative that IT departments remain agile and innovative. There is a demand for readily-available IT with no downtime - despite legacy systems no longer being suited to the hybrid cloud.

VMware vSAN delivers availability for the modern data centre. Our packaged service offers an infrastructure that enables enterprise scalability and dramatically lowers management and deployment time. Configurations can range from 2 node ROBO and 3 node configurations, up to 64 nodes. Typically, 4 nodes are offered to provide the most suitable initial cluster and availability for businesses.

Scope

We will deliver a VMware vSAN hyper-converged solution to host virtual machines in your on-premises environment, alongside dedicated network switches. This engagement includes:

- Discovery, analysis and design workshop
- Deployment of a 4 node VMware vSAN cluster
- Migration/creation of up to 2 servers

Engagement Approach

We will arrange a pre-sales call with a consultant to validate the requirements, including any other additional options that are identified. Then, our experienced specialist will assist in the appropriate service selection as per the steps below:



VMware vSAN Deployment Service Summary

Key Benefits

- Architecturally refined solution to meet requirements, based on analysis
- Fast service to deploy a hyper-converged infrastructure
- Simplified management, administration and support
- Training and documentation

Prerequisites¹

- Speak to an Ultima Consultant for sizing
- Access to current infrastructure for discovery and performance analysis
- 10U rack space and 10 x IEC-C14 power ports required (servers and switches)

Key Deliverables

- VMware vSAN discovery, analysis and design
- vSAN cluster installation and configuration
- Migration/creation of up to 2 servers into the new vSAN cluster
- Documentation of design and configuration

Typical Duration 10 Days²

¹ The customer is expected to shadow the build and deployment for installation training.

² Based on a 4 node and single site infrastructure, larger environments or extra sites can be scaled with more effort.



Stage 1 - Design & Planning

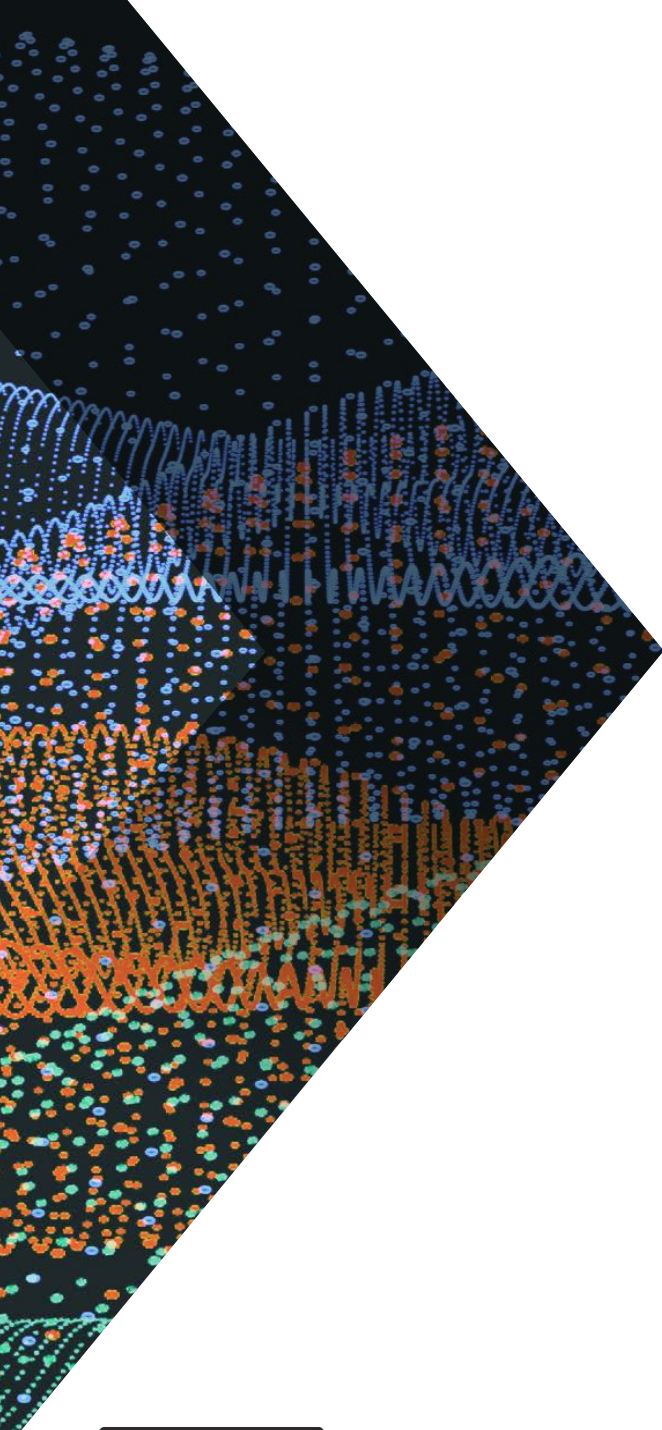
Our technologist will analyse the current workloads and carry out a design workshop to discuss configuration options for the new infrastructure. Information such as IP addresses, hostnames, service accounts, network configuration, storage profiles and hypervisor configuration will be identified and recorded.

Stage 2 - Build & Deploy

At this stage, the vSAN cluster will be connected into the new dedicated network switching and built with the VMware ESXi operating system and vSAN enabled. The vSAN cluster will be configured and up to 2 servers migrated or created in the new cluster.

Stage 3 - Service Introduction

The final stage ensures the agreed design and configuration document is completed, and the vSAN solution handed over to your team to manage going forward.



**VMware vSAN
(Optional Services)**

VMware Site Recovery Manager - Duration 5 Days

- Set up vSphere Replication and SRM servers
- Configure SRM across 2 sites
- Replication job with orchestration to disaster recovery (DR)
- Test a single failover and failback to DR

VMware vCenter High Availability - Duration 2 Days

- Design and configure new VCHA configuration
- Provide training on failover and capabilities that improve availability in management of the cluster

VMware vRealize Operations - Duration 3 Days

- Design and deploy vRealize appliance
- Configure and integrate into vSphere and vSAN infrastructure for optimisation

VMware vSAN Service Support³

- Fully managed backup service
- Support for the vSAN cluster
- Operational support for the VMs being backed up

³Requires a managed service assessment

**vSAN Hardware
(Typical Options)**

**VMware vSphere and vSAN Software
(Typical Options)**

All Flash/Hybrid Configuration

- 4 x 2U 24SFF rack server (CPU/RAM sized to requirement)
- 2 x SSD SAS cache drives and multiple SSD/HDD SAS capacity drives (depending on the capacity required)
- Multiple storage controllers

- VMware vCenter Server Standard
- VMware ESXi Standard (per CPU)
- VMware vSAN Standard/Advanced (per CPU)

Network Switching

Option 1 – 2 x HPE FlexFabric 5700 switches 24 ports 10GbE (small 3-4 environment)

Option 2 – 2 x HPE FlexFabric 5900 switches 24 ports 10GbE (>5 nodes more scalable)

Note: Exact hardware and software licensing quantities will depend on the customer environment.



Head Office
Gainsborough House
Manor Park, Basingstoke Road
Reading, Berkshire, RG2 0NA

☎ 0333 015 8000
✉ enquiries@ultima.com
🌐 www.ultima.com

Contact us for more information
0333 015 8000