

# Course : VMware virtual SAN 8, deployment and administration

Practical course - 3d - 21h00 - Ref. VV8

Price : 2410 CHF E.T.

NEW

Apprenez à déployer et gérer une solution de stockage avec VMware vSAN 8. Vous verrez comment mettre en œuvre la configuration et les fonctionnalités vSAN, surveiller et identifier les problèmes pour mieux les dépanner.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Configuring vSAN network components
- ✓ Deploy virtual machines in a vSAN datastore
- ✓ Planning and designing a vSAN cluster
- ✓ Configuring vSAN encryption

## Intended audience

This course is aimed at system administrators and architects who want to get to grips with the VMware vSAN software suite quickly.

## Prerequisites

Good knowledge of VMware vSphere 6.x administration or equivalent to the VMware vSphere 6.5, installation, configuration and administration course (ref. HVM) or ref. MWI for version 6.

## Practical details

Alternating practice and theory

## Course schedule

### PARTICIPANTS

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### PREREQUISITES

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### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

## 1 Storage

- Storage technologies.
- Magnetic and flash storage devices.
- Different types of storage architectures.
- vSAN architecture and components.
- Hybrid and Full Flash vSAN architectures.
- vSAN's space-efficiency features.

## 2 vSAN configuration

- Network prerequisites for configuring vSAN.
- Configure network for vSAN, vSAN cluster.
- Test and validate vSAN configuration and functionality.

### Hands-on work

Configure vSAN network components and a vSAN cluster.

## 3 vSAN and virtual machines

- How storage policies work with vSAN.
- Define and create a virtual machine storage policy.
- Apply and modify "storage policies" for virtual machines.
- vsanSparse snapshot format.
- Issues linked to vSanSparse snapshots.

### Hands-on work

Configure storage strategies for virtual machines.

## 4 Management and administration

- Manage hardware storage devices.
- Manage hardware device failures.
- Identify vCenter Server alarms for vSAN events.
- Configure fault domains.
- Upgrade to vSAN 8.

### Hands-on work

Improve management tasks. Create and manage nested defect domains.

## 5 Two-node and extended clusters

- Architecture of extended clusters and two-node clusters.
- Create an extended cluster from the two-node configuration.
- Configure vSphere HA and vSphere DRS for an extended cluster.
- Failover scenarios for extended clusters.

### Hands-on work

Set up an extended cluster and observe failover scenarios.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

## 6 Monitoring and troubleshooting

- Use the vSphere Web Client to detect problems.
- Use vSAN Health Service to check health and performance.
- Use ESXi commands to monitor the vSAN environment.
- Control vSAN with the vSphere Ruby console.

### Hands-on work

Use the vSAN service to monitor operation and performance.

## 7 Deployment design

- vSAN design considerations.
- Design and size vSAN clusters.
- Design and sizing tools for vSAN.

## Dates and locations

### REMOTE CLASS

2026 : 10 June, 16 Sep., 25 Nov.