Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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VMware vSAN: Plan and Deploy [V7]

CODE:	LENGTH:	PRICE:
VMW_VSANPD7	16 Hours (2 days)	€1,650.00

Description

This two-day, hands-on training course provides you with the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. In this course, you are taught the many considerations that the vSAN configuration has on the initial planning of the vSAN datastore. You also manually configure a vSAN cluster.

Objectives

By the end of the course, you should be able to meet the following objectives: • Explain the key features and use cases for vSAN
• Detail the underlying vSAN architecture and components • Describe the different vSAN deployment options
• Detail vSAN cluster requirements and considerations
• Apply recommended vSAN design considerations and capacity sizing practices
• Explain the influence of vSAN objects and components on the initial cluster plan
• Determine and plan for storage consumption by data growth and failure tolerance • Design vSAN hosts for operational needs
• Explain Maintenance Mode use and its impacts on vSAN • Apply best practices for vSAN network configurations
• Manually configure a vSAN cluster using VMware vSphere® Client™ • Explain and configure vSAN fault domains
• Understand and apply vSAN storage policies • Define encryption in the vSAN cluster
• Describe the architecture and use cases for stretched clusters • Configure a stretched cluster
• Understand the steps involved in creating the vSAN iSCSI target services

Audience

• Experienced VMware vSphere® administrators

Prerequisites

You should have the following understanding or knowledge:
• Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage course
• Knowledge of basic storage concepts
• Experience using vSphere Client to perform administrative tasks on vSphere clusters

Programme

1 Course Introduction
• Introductions and course logistics
• Course objectives

2 Introduction to vSAN
• Describe vSAN architecture
• Describe the advantages of object-based storage
• Describe the difference between All-Flash and Hybrid vSAN architecture
• Explain the key features and use cases for vSAN
• Discuss the vSAN integration and compatibility with other VMware technologies
• Identify vSAN objects and components
• Describe a vSAN object
• Describe how objects are split into components
• Explain the purpose of witness components
• Explain how vSAN stores large objects
• View object and component placement on the vSAN datastore

3 Planning a vSAN Cluster
• Identify requirements and planning considerations for vSAN clusters
• Apply vSAN cluster planning and deployment best practices
• Determine and plan for storage consumption by data growth and failure tolerance
• Design vSAN hosts for operational needs
• Identify vSAN networking features and requirements
• Describe ways of controlling traffic in a vSAN environment
• Recognize best practices for vSAN network configurations

4 Deploying a vSAN Cluster
• Deploy and configure a vSAN cluster using the Cluster QuickStart wizard
• Manually configure a vSAN cluster using vSphere Client
• Explain and configure vSAN fault domains
• Using VMware vSphere® High Availability with vSAN
• Understand vSAN cluster maintenance capabilities
• Describe the difference between implicit and explicit fault domains
• Create explicit fault domains

5 vSAN Storage Policies
• Explain how storage policies work with vSAN
• Explain the role of storage policies in planning a vSAN cluster
• Define and create virtual machine storage policies
• Apply and modify virtual machine storage policies
• Change virtual machine storage policies dynamically
• Identify virtual machine storage policy compliance status
6 Introduction to Advanced vSAN Configurations
• Define and configure compression and deduplication in the vSAN cluster
• Define and configure encryption in the vSAN cluster
• Understand the remote vSAN datastore topology
• Identify the operations involved in managing the remote vSAN datastore
• Configure the vSAN iSCSI target service

7 vSAN Stretched and Two-Node Clusters
• Describe the architecture and use cases for stretched clusters
• Detail the deployment and replacement of a vSAN witness node
• Describe the architecture and use cases for two node clusters
• Explain the benefits of vSphere HA and VMware Site Recovery Manager™ in a vSAN stretched cluster
• Explain storage policies for vSAN stretched cluster

Session Dates

Aikataulutamme kiinnostuksen mukaan. Ota yhteyttä

Additional Information

This training is also available as onsite training. Please contact us to find out more.