



Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
VMW_WS-VSANMO7	24 Hours (3 days)	€2,750.00

Description

Finnish Edition VMware vSAN: Management and Operations [V7]

Tällä kurssilla opit vSAN ympäristön ylläpidon, hallinnan ja kokoonpanon muuttamisen sekä vaativimmatkin vSAN ympäristön tietoturva ja määrittely optiot.

Huom. tämä kurssi olettaa, että sinulle on jo vSAN perusteet ja käyttöönoton vaatimukset ja vaihtoehdot tuttuja.

Kurssin vetäjänä toimii pitkäaikainen VMware vSphere -ammattilainen, VCI, VCIX, VCAP, vSAN Specialist Pertti Pellonpoika. Opetus on suomeksi.

Objectives

Kurssin jälkeen osaat käytännössä kaiken vSAN ympäristön hallintaan ja ylläpitoon tarvittavan. Erityisesti mm. seuraavat taidot:

- Define the tasks involved in vSAN node management
- Updating and upgrading vSAN using VMware vSphere Lifecycle Manager™
- Explain vSAN resilience and data availability features
- Reconfigure vSAN storage policies and observe the cluster-wide impact
- Perform vSAN cluster scale-out and scale-up operations
- Describe common vSAN cluster maintenance operations
- Control vSAN resync operations
- Configure vSAN storage efficiency and reclamation features
- Use VMware Skyline™ Health to monitor cluster health, performance, and storage capacity
- Describe vSAN security operations
- Configure vSAN Direct for cloud native applications
- Configure remote vSAN datastore and vSAN native file services
- Manage two-node cluster and stretched cluster advance operations

Audience

Tämä kurssi sopii kaikille, joilla on tarvetta osata käytännössä vSAN ympäristön ylläpito ja hallinta ja joilla on jo perustiedot vSAN:sta.

Prerequisites

VMware vSphere: Install, Configure, Manage -kurssi tai vastaavat tiedot sekä lisäksi VMware vSAN: Plan and Deploy 7-kurssi

Programme

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. vSAN Node Management

- Recognize the importance of hardware compatibility
- Ensure the compatibility of driver and firmware versioning
- Use tools to automate driver validation and installation
- Apply host hardware settings for optimum performance

3. vSAN Resilience and Data Availability Operations

- Use vSphere Lifecycle Manager to perform upgrades
- Describe vSAN storage policies
- Recognize the impact of a vSAN storage policy change
- Describe and configure the Object Repair Timer advanced option
- Plan disk replacement in a vSAN cluster
- Plan maintenance tasks to avoid vSAN object failures
- Recognize the importance of managing snapshot utilization in a vSAN cluster
- Configure the vSAN fault domains

4. vSAN Cluster Maintenance

- Perform typical vSAN maintenance operations
- Describe vSAN maintenance modes and data evacuation options
- Assess the impact on cluster objects of entering maintenance mode
- Determine the specific data actions required after exiting maintenance mode
- Define the steps to shut down and reboot hosts and vSAN clusters
- Use best practices for boot devices

5. vSAN Storage Space Efficiency

- Replace vSAN nodes
- Discuss deduplication and compression techniques
- Understand deduplication and compression overhead
- Discuss compression only mode
- Configure erasure coding
- Configure swap object thin provisioning
- Discuss reclaiming storage space with SCSI UNMAP

6. vSAN Cluster Performance Monitoring

- Describe how the Customer Experience Improvement Program (CEIP) enables VMware to improve products and services
- Use vSphere Skyline Health for monitoring vSAN cluster health
- Manage alerts, alarms, and notifications related to vSAN in VMware vSphere® Client™
- Create and configure custom alarms to trigger vSAN health issues
- Use IO Insight metrics for monitoring vSAN performance
- Analyse vsantop performance metrics
- Use a vSAN proactive test to detect and diagnose cluster issues

7. vSAN Security Operations

- Identify differences between VM encryption and vSAN encryption
 - Perform ongoing operations to maintain data security
 - Describe the workflow of data-in transit encryption
 - Identify the steps involved in replacing Key Management Server (KMS)
- ### 8. vSAN Direct
- Discuss the use cases for vSAN Direct
 - Understand the overall architecture of vSAN Direct
 - Describe the workflow of vSAN Direct datastore creation
 - Explore how vSAN Direct works with storage policy tagging
- ### 9. Remote vSAN
- Discuss the use cases for remote vSAN
 - Understand the high-level architecture
 - Describe remote datastore operations
 - Discuss the network requirement
 - Interoperability between remote vSAN and VMware vSphere® High Availability

10. vSAN Native File Service

- Discuss the use cases for vSAN file service
- Understand the high-level architecture of vSAN file service
- Discuss the authentication model
- Configure file shares
- Monitor file share health and capacity utilization

11. Manage Advanced vSAN Cluster Operations

- Describe the architecture for stretched clusters and two node clusters
- Understand the importance of witness node
- Describe how stretched cluster storage policies affect vSAN objects
- Create and apply a vSAN stretched cluster policy to meet specific needs
- Discuss stretched cluster failure scenarios and responses

Test and Certification

Tämä kurssi yhdessä vSAN: Plan and Deploy -kurssin kanssa valmentaa hyvin testiin VMware vSAN Specialist Exam (5V0-22.21), jolla saavutat VMware Certified Specialist - vSAN 2022 sertifiointin.

Session Dates

Aikataulutamme kiinnostuksen mukaan. [Ota yhteyttä](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)