Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS Finland Oy, Lars Sonckin kaari 16, 02600 Espoo, Finland

Email: education.ecs.fi@arrow.com
Phone: 0870 251 1000

VMware Data Center Virtualization: Core Technical Skills

CODE:	LENGTH:	PRICE:
VMW_DCVCTS	32 Hours (4 days)	€3,080.00

Description

This four-day, hands-on training course is an introduction to VMware vSphere®. In this course, you acquire the skills needed to perform Day 2 operational tasks that are typically assigned to the roles of operator or junior administrator in a vSphere environment.

Objectives

By the end of the course, you should be able to meet the following objectives:
- Describe virtualization and virtual machines
- Describe vSphere components and the software-defined data center (SDDC)
- Explain the concepts of server, network, and storage virtualization
- Monitor network and datastore configurations in VMware vSphere® Client™
- Deploy, configure, and clone virtual machines
- Migrate, monitor, and manage virtual machines
- Monitor tasks and events in VMware vSphere® Client™
- Recognize how vSphere DRS and VMware vSphere® High Availability improve performance and availability of a vSphere cluster

Audience

Technical professionals with basic system administration skills and operators responsible for managing virtual machines using VMware ESXi™ and VMware vCenter Server®

Prerequisites

- Working knowledge of operating systems
- Understanding of basic network, storage, and computer hardware concepts

Programme

1 Course Introduction
- Introductions and course logistics
- Course objectives

2 Virtualization and vSphere Concepts
- Describe how virtual machines (VMs) work
- Recognize the purpose of a hypervisor
- Describe how VMs share resources in a virtualized environment
- Recognize the components of an SDDC
- Describe the relationship between vSphere, the SDDC, and cloud computing
- Recognize the functions of the components in a vSphere environment
- Access and view vSphere graphical user interfaces
- Identify VMware solutions that integrate with vSphere in the SDDC

3 Navigating the vSphere Client
- View and organize the inventory objects managed by vCenter Server
- Add and assign vSphere licenses
- Change the log level of vCenter Server
- Edit the startup policy of ESXi services
- Describe how vCenter Server roles and permissions work
- Add permissions to virtual machines

4 Lifecycle of Virtual Machines
- Add and remove VM virtual hardware components
- Identify the purpose of different VM files
- Configure VM settings
- Create and delete virtual machines
- Recognize the benefits of installing VMware Tools™
- Install VMware Tools into a guest operating system
- Upgrade VMware Tools and VM hardware compatibility

5 vSphere Networking
• Describe virtual networking
• Recognize ways that virtual switches connect VMs and ESXi hosts to the network
• View components and properties of a vSphere standard switch configuration
• View a vSphere distributed switch configuration in vSphere Client
• Recognize when and how to use the settings for the security networking policy
• Recognize when and how to use the settings for the traffic shaping networking policy
• Describe how the NIC teaming and failover policy helps maintain network connectivity
• Perform basic checks to diagnose VM connectivity issues

6 vSphere Storage
• Describe the function of a datastore
• Recognize types of vSphere datastores
• View datastore information in vSphere Client
• Monitor datastore usage in vSphere Client

7 Virtual Machine Management
• Recognize the benefits of using VM templates
• Create and update a VM template
• Deploy a VM from an existing template
• Clone a virtual machine
• Recognize how to use guest OS customization specifications
• Deploy VMs from a content library
• Deploy a virtual appliance from an OVF template
• Perform a hot and cold migrations of VMs
• Identify requirements for using VMware vSphere® Storage vMotion®
• Perform a vSphere Storage vMotion migration
• Identify use cases for VM snapshots
• Create and manage snapshots of a virtual machine

8 Resource Monitoring
• Recognize the purpose of each type of VM resource control
• Configure the resource allocation settings of a VM
• Observe the behavior of virtual machines with different share values
• Manage and acknowledge vSphere alarms
• Use performance charts to monitor VM CPU and memory usage
• Monitor tasks and events in vSphere Client

9 vSphere Clusters
• View information about the services that a vSphere cluster offers
• Recognize how vSphere HA responds to different types of failures
• Monitor vSphere HA during a host failure
• Describe how vSphere DRS works
• Interpret DRS scores given to VMs
• Recognize how to apply the appropriate vSphere DRS automation and migration threshold levels
• Describe how vSphere Fault Tolerance works
• Recognize how Enhanced vMotion Compatibility works

Test and Certification

Attending this course is recommended to achieve the following certification:
• VMware Certified Technical Associate - Data Center Virtualization (VCTA-DCV)

Session Dates

Aikataulutamme kiinnostuksen mukaan. Ota yhteyttä

Additional Information

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