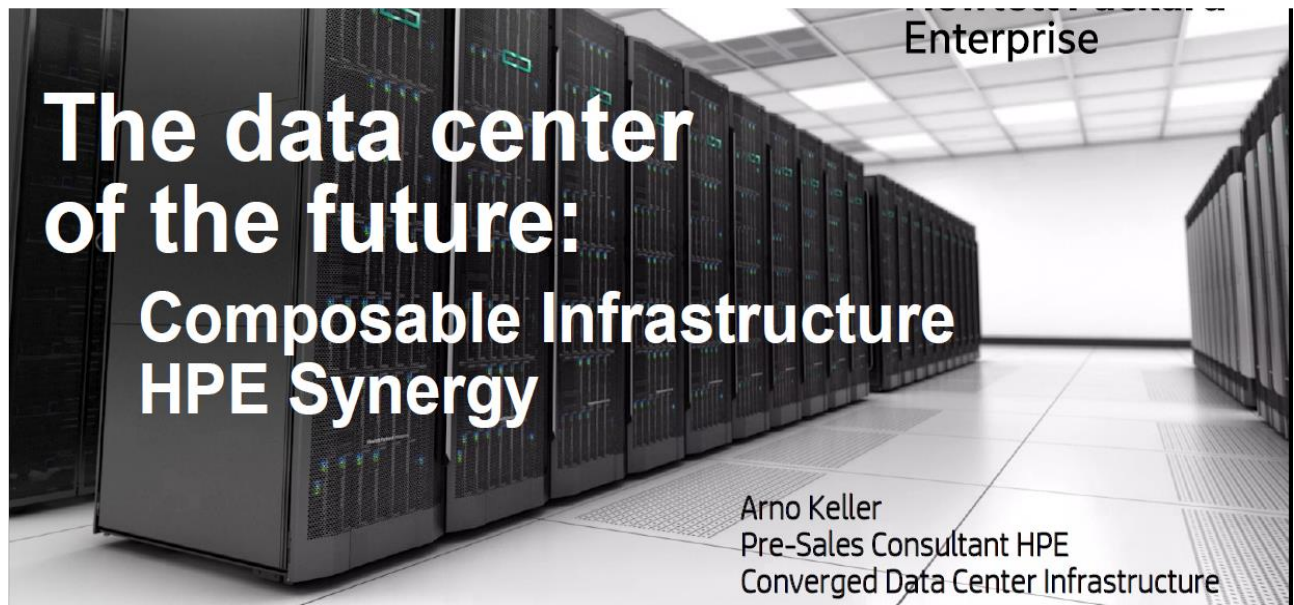


## Training guide

**COMPACT**

# Cloud Computing AND VIRTUALIZATION



# Training guide

**Course:** Cloud Computing & Virtualization

**Lecturer:** ing. Sichtman Geo

**Topics by Keywords:** VMware vSphere, vCenter, VMotion, DRS, HA

## Detailed Course Information

### Training Overview

This training focuses on installing, configuring and managing VMware vSphere 6, which includes VMware vSphere 6 and VMware vCenter 6 in data centers. The training prepares the student to administer a VMware vSphere for an organization of any size and forms the foundation for the most other VMware technologies in the software defined data center and infrastructures in the cloud. The intended audience are system administrators or engineers with base experience in windows and Linux concepts.

### Learning Outcomes

By the end of this training, participants should be able to

- Describe the software-defined data center
- Deploy an ESXi host and create virtual machines
- Describe vCenter Server architecture
- Deploy a vCenter Server instance or VMware vCenter Server™ Appliance™
- Use vCenter Server to manage an ESXi host
- Configure and manage vSphere infrastructure with VMware vSphere® Client™ and VMware vSphere® Web Client
- Configure virtual networks with vSphere standard switches
- Use vCenter Server to manage various types of host storage: VMware vSphere® VMFS, NFS, virtual SAN, and Virtual Volumes
- Manage virtual machines, templates, clones, and snapshots
- Create a vApp
- Describe and use the content library
- Migrate virtual machines with VMware vSphere® vMotion®
- Use VMware vSphere® Storage vMotion® to migrate virtual machine storage
- Monitor resource usage and manage resource pools
- Manage VMware vSphere® High Availability and VMware vSphere® Fault Tolerance
- Use VMware vSphere® Replication™ and VMware vSphere® Data Protection™ to replicate virtual machines and perform data recovery
- Use VMware vSphere® Distributed Resource Scheduler™ clusters to improve host scalability
- Use vSphere distributed switches to improve network scalability
- Use VMware vSphere® Update Manager™ to apply patches and perform basic troubleshooting of ESXi hosts, virtual machines, and vCenter Server operations

### Accreditation/ Certification/ Recognition

*These courses are an integral part of the IMIT education program accredited by the “National Orgaan voor Accreditatie” (NOVA). The successful completion of the course entitles non-IMIT students an IMIT (sub) certificate. IMIT is recognized by The Ministry of Education, Science and Culture (MINOWC).*

IMIT

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