

# VMware Install, Configure, Manage, v8: Hack The Cert (VICMHACK)

**ID** VICMHACK **Price** 4,900.— €(excl. tax) **Duration** 5 days

## Course Overview

The ICM hack, a 5-day true hands-on experience, operates on the learning-by-doing principle, emphasizing research and teamwork as its core strengths. Participants will be organized into teams, collaborating to tackle a series of challenges designed to enhance their knowledge significantly. These challenges are interconnected, with each one building upon the preceding one. Following lunch, all participants engage in a quiz to test their knowledge using a quiz-experience app such as Kahoot or AhaSlides. Each day concludes with a Q&A session and an exam preparation segment for attendees.

## Challenges

Every challenge consists of the following:

- **SITUATION DESCRIPTION** – Describing the real-world scenario behind the specific challenge
- **DEFINITION OF DONE** – Clearly described elements of the completion for the specific challenge
- **RESOURCES** – Documentation, Blogs, Hints, and Tips 'n' tricks, Connection to official VMware materials

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## Who should attend

System administrators System engineers

## Prerequisites

This course has the following prerequisites:

- System administration experience on Microsoft Windows or Linux operating systems

## Detailed Course Outline

### Challenge 1: Host install & Initial Config

- Basic config of the first host using embedded host client.
- Change client theme.
- Configure ntp.
- Add hosts to AD.
- Enable SSH and ESXi Shell.

### Challenge 2: vCenter Install & Initial Config

- Deploy VCSA, choose size and number of vCenters.
- Create vCenter inventory objects.
- Add hosts.
- Add licenses.
- Join domain and add identity source.
- Set permissions.
- Configure syslog.

### Challenge 3: Networking

- Create standard virtual switches and portgroups, edit policies.
- Create Distributed virtual switch.
- Migrate VMs from VSS to VDS.
- Backup VDS.
- Enable health check.
- Configure Port Mirroring.
- Restore VDS

### Challenge 4: Storage

- Configure iSCSI on ESXi hosts.
- Create, Expand, Remove & Add Additional iSCSI datastores.
- Datastore Maintenance Mode.
- Add NFS datastore.
- Add vSAN Disk Group
- Create vSAN storage policies

### Challenge 5: Working with VMs

- Create VM and install a Guest OS.
- Adding VMs into the Inventory.
- Deploy VM from OVF Template.
- Edit VM Settings.
- Adding resources into a VM.
- Expanding Virtual Disks.

#### **Challenge 6 – Creating VMs and Content Libraries**

- Create VM Template.
- Create Customisation specification.
- Deploy VMs from Template.
- Content Library.
- Clone a VM Template to Library.
- Deploy a VM from Content Library

#### **Challenge 7 – vMotion, SvMotion and Cross vCenter vMotion**

- Configure network for vMotion.
- Migrate VMs across hosts with vMotion.
- Migrate VMs between Datastores with SvMotion.
- Cross vCenter vMotion

#### **Challenge 8 – VM Resources and vSphere Clusters, DRS**

- Manage CPU and Memory resources.
- Enable Shares, Limits and Reservations.
- Create and manage Resource Contention.
- Create Clusters
- Enable EVC
- Enable DRS and create DRS Groups / Rules.
- Maintenance Mode

#### **Challenge 9 – Additional Cluster Features HA / FT / vSAN**

- Enable and test vSphere HA and FT.
- Configure management redundancy.
- Edit Datastore Heartbeat settings and Advanced HA settings.
- Edit Admission Control policies.

#### **Challenge 10 – Host, vCenter and VM maintenance**

- Create and manage VM Snapshots.
- Backup VCSA.
- Configure Product Locker location.
- Backup Hosts and vCenter.
- Explore Lifecycle Manager.
- Upgrading Hosts and vCenter.

# About Fast Lane



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