

VMware Data Center Virtualization Foundations

Delivery Methods

- Instructor-led training
- Live-online
- [Onsite training](#)

Course Duration

Three (4) Hours

Target Audience

This course is suitable for customers, channel partners, and employees. Many potential customers, partners, and new VMware employees might benefit from an introduction to VMware products and technologies. This course prepares individuals for success with the certification track of choice, while enabling them to be productive as they enhance their VMware expertise.

Course Suitability

- | | |
|---|--|
| <input checked="" type="checkbox"/> Administrator | <input type="checkbox"/> Expert |
| <input type="checkbox"/> Engineer | <input type="checkbox"/> Advanced |
| <input type="checkbox"/> Architect | <input type="checkbox"/> Professional |
| | <input checked="" type="checkbox"/> Fundamentals |

Prerequisites

None. Foundation-level training. Familiarity and some experience with IT technology assumed.

Certifications

[VCA – VMware Certified Associate](#)

More Information

Courses are conveniently scheduled around the world. Go to <http://www.vmware.com/education> to find the class that is right for you.

Course Overview

The VMware Data Center Virtualization Foundations course provides a fundamental understanding of the VMware® data center virtualization products. This course also includes the business challenges that these products are intended to solve.

The course starts by covering the concepts of data center virtualization, including some common IT challenges faced by organizations. The course covers the VMware vSphere® 5.5 product line, showing the various components and features and how they help resolve business and technical challenges. The course also relates products and features to challenges that they are intended to resolve.

Course Objectives

At the end of this course, you should be able to:

- Describe the need for data center virtualization
- Provide an overview of the vSphere features and define how the VMware products help to solve business and technical challenges related to data center virtualization



Course Modules

1 Introduction to Data Center Virtualization with VMware vSphere

- Introduction to data center virtualization with vSphere
- What is data center virtualization?
- Why do we need data center virtualization?
- Availability, scalability, optimization, and management challenges

3 Applying What You Have Learned

- Availability challenges for data center virtualization
- Scalability challenges for data center virtualization
- Optimization challenges for data center virtualization
- Management challenges for data center virtualization

2 Components of VMware vSphere

- Components of vSphere
- What is a virtual machine?
- VMware vSphere® ESXi Hypervisor
- VMware® vCenter™
- VMware vSphere® vMotion®
- VMware vSphere® Distributed Resource Scheduler™
- VMware vSphere® Distributed Power Management™
- VMware vSphere® Storage vMotion®
- VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control
- VMware vSphere® Data Protection™
- VMware vSphere® High Availability
- VMware vSphere® Fault Tolerance
- VMware vSphere® vSphere Replication
- Storage types (VMware® Virtual SAN™, VMware vSphere® Flash Read Cache™, Datastores)
- Virtual networking introduction
- Data center virtualization products (VMware® vCenter™ Operations Manager™, VMware® vCenter™ Site Recovery Manager™)



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