

# Data Center Virtualization: Core Technical Skills

## OVERVIEW

**Release date:** January 1, 2021

**Micro-course length:** 16 hours

**Micro-course format:** Online accessible through Kivuto or D2L

**Delivery:** Instructor-led or self-paced

**Upon completion:** Users will be ready for the VCTA-DCV certification exam

## Summary

Through VMware IT Academy, “Data Center Virtualization: Core Technical Skills” prepares the learner for a starting position in the datacenter domain. Through a series of targeted, self-paced lessons, the student acquires the skills to perform operational tasks typically assigned to the roles of operator or junior administrator.

## Prerequisites

Learners should have a good understanding of the basic compute components of the data center.

## Target audience

- Upper-secondary students
- Community college/technical college
- College and university
- Technical learners/professionals



## Modules

1. Introduction to Virtual Machines
2. How Virtualization Works
3. vSphere and the Software-Defined Data Center
4. Components of a vSphere Environment
5. vSphere Graphical User Interfaces
6. VMware SDDC Solutions
7. SDDC Business Continuity
8. Getting Started with the vSphere Client
9. Organizing your vCenter Server Inventory
10. Managing the vSphere Configuration
11. vCenter Server Roles and Permissions
12. VM Virtual Hardware
13. Virtual Machine Configuration
14. Creating and Removing Virtual Machines
15. Installing the Guest Operating System
16. Installing VMware Tools
17. Upgrading Virtual Machines
18. Virtual Switches Overview
19. vSphere Standard Switches
20. vSphere Distributed Switches
21. Virtual Switch Networking: Security Policy
22. Virtual Switch Networking: Traffic Shaping Policy
23. Virtual Switch Networking Policy: NIC Teaming and Failover
24. VM Network Connectivity Checks
25. vSphere Network Connectivity Checks
26. Datastores Overview
27. Viewing Datastore Information
28. Monitoring Datastore Usage
29. Overview VM Templates
30. Creating VM Templates
31. Updating VM Templates
32. Deploying VMs Using Templates
33. Cloning Virtual Machines
34. Guest OS Customization
35. Content Library Overview
36. Virtual Appliance Overview
37. VM Migration Overview
38. Migrating VMs Using vSphere vMotion
39. Migrating VMs with vSphere Storage vMotion
40. Virtual Machine Snapshots
41. Working with Virtual Machine Snapshots
42. Virtual Machine Resource Controls
43. Working with Virtual Machine CPU Shares
44. Using vSphere Alarms
45. Introduction to Performance Charts
46. Monitoring vSphere Tasks and Events
47. Overview of vSphere Clusters
48. Overview of vSphere HA
49. Monitoring of vSphere HA
50. Overview of vSphere DRS
51. vSphere DRS Settings
52. vSphere DRS Functionality
53. Overview of vSphere Fault Tolerance
54. Overview of Enhanced vMotion Compatibility
55. Certification Information
56. VMware Core Technical Skills Survey \*

For additional information, please contact  
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