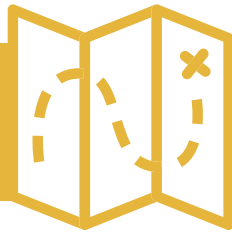


# STUDY PLAN



## VMware vSphere 6.5 (VCP6.5-DCV)

Total Videos: **74**    Time: **18 hours\***

\*The time indicated above represents the total time to view all videos in the course, but does not include time spent using virtual labs, practice exams, embedded quizzes, etc.

## VMware Certified Professional 6.5 - Data Center Virtualization (VCP6.5-DCV)

The VMware Certified Professional 6.5 – Data Center Virtualization (VCP6.5-DCV) certification is designed to validate a learner’s knowledge and skills of implementing, managing, and troubleshooting a vSphere 6.5 infrastructure. The VCP6.5-DCV is made up of two exams:

Select the exam of your choice:

- VMware vSphere 6 Foundations exam (2V0-620) or vSphere 6.5 Foundations exam (2V0-602);
- VMware Certified Professional 6.5 – Data Center Virtualization exam (VCP6.5-DCV) (2V0-621).

CBT Nuggets training currently covers both the Foundations-level exam and the professional-level exam in one comprehensive online course with trainer [Keith Barker, VMware vSphere 6.5 \(VCP6.5-DCV\)](#).

The VCP6.5-DCV certification is an intermediate-level certification. Therefore, we recommend that learners have a basic understanding of [virtualization](#) concepts, experience working with VMware Workstation, familiarity with [Windows Server 2012](#) (or [Windows Server 2016](#)) and [IP networking](#), and six (6) months of experience working with directly with vSphere 6.5.

## Exam Eligibility

It is important to note that the VCP6.5-DCV is a VMware Certified Professional-level certification, and as such, learners must pass the Foundations exam (choose either [version 6](#) or [6.5](#)). In addition, learners must attend an official VMware course (there are eight to choose from and any one course fulfills the attendance requirement) in order to be authorized to sit for the VCP6.5-DCV exam.

## Exam Details

**Time allotted for exam:** 105 minutes

**Number of questions:** 70

**Passing score:** 300

**Question types:** Single and multiple choice, proctored

**Exam registration:** [Request Exam Authorization](#) through VMware\* or [Pearson VUE](#)

**Exam cost:** \$250 (USD)

**Exam objectives:** [VMware Certified Professional 6.5 – Data Center Virtualization \(exam number 2V0-622\)](#) (free downloadable PDF)

**Eligibility:** As noted above, to qualify for the VCP6.5-DCV exam, learners must complete an official and approved VMware course, and pass the Foundations exam in order to earn certification.

*\*Learners must create an account with VMware in order to request exam authorization.*

## STUDY STRATEGIES

Learners use a great variety of strategies to attack their training. Here are some options you can choose from to get the most out of your training experience:

Proceed through all CBT Nuggets video training on double-speed to develop a strong overview of the material; then proceed through all the training for a second time, taking good notes and focusing on deeper learning.

**OR**

Proceed through all CBT Nuggets video training, taking good notes and focusing on deep learning on the first pass; then proceed back through all training a second time, using double-speed when appropriate.

Supplement all video training with book study and practical application of knowledge.

Use the hands-on virtual labs throughout the course to practice your skills.

Learn more about how to get all you can out of your practice exam experience from a quick video by Keith Barker



## PRACTICE EXAM STRATEGIES

CBT Nuggets offers practice exams as part of your subscription. You can take the practice exams as many times as you like! Here are some tips to help you take full advantage of this excellent resource:

### ! PLAN TO TAKE THE PRACTICE EXAM 3 TIMES

#### FIRST EXAM

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Create a baseline against which you can measure your progress with future exams.

Identify areas of weakness in order to direct your training as you move forward.

#### SECOND EXAM

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Measure your progress since your first practice exam! Ask yourself: Are you retaining the information and material you learned at the beginning of your training? Are there areas to which you should return now to ensure your understanding before moving forward?

The results from your second practice exam experience should help you identify areas where you may need to spend extra effort and energy in the training ahead.

#### THIRD EXAM

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Measure your progress against your first two practice exams! Ask yourself: Are you scoring 90% by now? If so, you might be ready for the real

Allow the results from your practice exam to direct your review ahead of your certification exam. Ask yourself: Are you retaining all the material? And are you understanding it well?

KEY

7. Deploying the vCSA

23 30-45

The duration of the video in minutes.

Time required to complete a virtual lab in minutes.

The number and title for each video corresponds to the number and title you will find on the VMware vSphere 6.5 (VCP6.5-DCV) course page online (and on your mobile device).

The Extra Mile section of your study plan challenges you to dig a little deeper with your training. The Extra Mile might be a textbook recommendation, supplemental materials downloads, or other resources to help you take your training to the next level. Nothing in the Extra Mile is required, but it is here to help you learn.



"I recommend watching the video first, then replaying the video step-by-step so you can reinforce what you learn by using the provided lab. Using this approach, you can expect between 30-90 minutes per Nugget/Lab."

- Keith Barker



## VMware vSphere 6.5 (VCP6.5-DCV)

WEEK 1

- 1. Welcome to vSphere
- 2. Hypervisor Overview
- 3. vSphere Overview
- 4. Installing ESXi

31 15-30

- 5. Using the DCUI
- 6. The VMware Host Client

21 30-60

- 7. Deploying the vCSA

23 30-45

- 8. Adding Hosts to vCenter

17 30-45

- 9. vCSA's Management UI

11 15-30

EXTRA MILE

Download the [VMware vSphere 6.5 VCP6.5-DCV Exam Guide](#). Use this document as a blueprint for your training.

Explore the [vSphere Resource Management](#) documentation from VMware.

PRACTICE LAB\*

This CBT Nuggets course includes virtual labs to give you hands-on experience and help ensure that you are deeply understanding what you learn.

*\*Keep a list of any virtual lab experiences that you find particularly challenging so you can come back to them for additional practice later.*

Explore the [VMware Certification Market Place](#) for resources\* to supplement your training.

*\*At the time this document was published, no resources were yet available for the VCP6.5-DCV.*

WEEK 2

10. Deploying a VM

▶ 23 📦 30-45

11. Virtual Switch (vSwitch) Overview

▶ 22

12. vSwitch Creation and Configuration

▶ 25 📦 30-45

13. Adding More vSwitches

14. iSCSI Datastore Concepts

▶ 9 📦 10-15

15. Creating an iSCSI Datastore

16. Managing VMFS Datastores

▶ 24 📦 25-45

EXTRA MILE

Join the [CBT Nuggets Learner Community](#) on Slack! Join other CBT Nuggets learners in a community where you can post questions, share study resources, connect with IT experts from all over the world, and get mentoring for your training.

*\*Please allow 48 hours for your request to join the community to be processed.*

Explore (and maybe even join!) the [VMware Technology Network VCP Community](#).

Learn more about [Configuring vSwitch or vNetwork Distributed Switch from the command line in ESXi/ESX](#) from the VMware Knowledge Base.

WEEK 3

17. Creating an NFS Datastore

▶ 11 📦 15-30

18. VM Templates and Cloning

▶ 25 📦 30-45

19. Using Content Libraries

20. Cloning a VM From a VM

▶ 21 📦 25-45

21. vMotion and Migration of VMs

▶ 26 📦 30-45

22. Using Snapshots

▶ 19 📦 30-45

EXTRA MILE

Learn more about [vSphere Virtual Machine Administration](#) from VMware Docs.

Dig a little deeper with [Snapshot Workflows](#) from VMware Docs.

Create flashcards to quiz yourself on the content from your training! Or, use existing flashcard resources such as [quizlet.com](#)!

**"The results you achieve will be in direct proportion to the effort you apply."**

- Denis Waitley

23. VM Inventory and Renaming

▶ 17 📦 15-30

24. NIC Teaming and Other Standard vSwitch Policies

▶ 19 📦 15-30

25. Distributed vSwitch Concepts and Lab

26. Distributed vSwitch: Additional Features

▶ 28 📦 30-45

27. vDS Feature Configuration

▶ 29 📦 30-45

TAKE THE PRACTICE EXAM!

🕒 90-120

### EXTRA MILE

#### TAKE THE PRACTICE EXAM!

VMware offers a practice exam for \$109 (USD)\*. Consider purchasing the opportunity to get some experience with exam-like conditions and questions. Use the results to drive your review and practice as you continue your study.

- [VMware Official Practice Test: VCP6.5-DCV 2V0-622](#)

*\*You can purchase 30-day or 60-day access to the VMware practice test. If you are concerned about accessibility, consider purchasing your access in another week or two after you've progressed further in this plan to ensure access closer to the conclusion of your training.*

If you would prefer a free practice exam experience, consider using the exam available from [SimonLong/blog](#).

28. Creating a DRS Cluster

29. Affinity Rule Concepts

▶ 27 📦 30-45

30. Implementing Affinity Rules

31. vSphere High Availability (HA) Concepts

▶ 21 📦 15-30

32. Implementing High Availability (HA)

33. Testing vSphere High Availability (HA)

▶ 29 📦 30-60

34. Adding iSCSI Multipath

35. Migrating VMKernel Adapters to a vDS

▶ 24 📦 25-45

36. VM CPU and Memory Control Overview

37. Configuring VM CPU Limits and Reservations

▶ 28 📦 15-30

### EXTRA MILE

Remember that list of virtual lab experiences that challenged you? Take some time this week to return to those labs to see if you can conquer them now!

Master the [Best Practices for VMware vSphere High Availability Clusters](#) from VMware Docs.

**"Effort only fully releases its reward after a person refuses to quit."**

*- Napoleon Hill*

## WEEK 6

38. Resource Pool Concepts

39. Using Resource Pools

 23  10-15

40. vApps

 18  30-45

41. Storage DRS

42. VM Fault Tolerance (FT) Concepts

 25  20-30

43. Implementing FT

 20  30-45

44. vCenter Server Alarms

 20  30-45

## EXTRA MILE

Register for your [certification exam](#). Remember: learners must attend an official VMware course in order to be authorized to sit for the VCP6.5-DCV exam. This is a good time to sign up for the required course attendance.

Learn more about [Resource Pools](#) from VMware Docs.

**"A winning effort begins with preparation."**

- Joe Gibbs

## WEEK 7

45. Adding an LDAP Identity Source

 13  15-30

46. vCenter Permissions

 19  30-45

47. Troubleshooting vCSA Permissions

48. vSAN

 29  40-60

49. vSAN Tidbits

50. Troubleshooting vCSA Not Responding

 21  15-30

51. Storage Policy-based Management (SPBM)

52. vSAN Fault Domains

 23  30-45

## EXTRA MILE

Learn more about [Designing and Sizing vSAN Fault Domains](#) from VMware Docs.

Master the [Best Practices for vSAN Networking](#) from VMware Docs.

**"Success is peace of mind, which is a direct result of self-satisfaction in knowing you made the effort to become the best of which you are capable."**

- John Wooden

WEEK 8

53. Storage I/O Control (SIOC)

54. ESXi Host Profiles

▶ 16 📦 25-45

55. vSphere Update Manager

▶ 13 📦 15-30

56. ESXi Shell, SSH, and CLI

▶ 19 📦 20-30

57. Auto Deploy Concepts

▶ 11 📦 15-30

TAKE THE PRACTICE EXAM!

🕒 90-120

EXTRA MILE

Dig deeper to [Configure ESXi Hosts with Host Profiles](#) from VMware docs.

Learn more about [Understanding vSphere Auto Deploy](#) from VMware Docs.

**"No one succeeds without effort. Those who succeed owe their success to perseverance."**

*- Ramana Maharshi*

WEEK 9

58. Implementing Auto Deploy

▶ 29 📦 30-45

59. ESXi Lockdown Mode

60. Installing Windows Certificate Services

▶ 18 📦 25-45

61. vCSA Integration with External CAs Overview

62. Replacing vCSA Certificates Lab

▶ 24 📦 30-45

63. Troubleshooting Reservations

▶ 21 📦 30-45

64. Troubleshooting VM Network Connectivity

65. Troubleshooting Admission Control

▶ 16 📦 30-60

EXTRA MILE

Learn more about [Lockdown Mode](#) from VMware Docs.

Learn more with the [vCenter Server Appliance Overview](#) from VMware Docs.

**"Many of life's failures are people who did not realize how close they were to success when they gave up."**

*- Thomas Edison*



66. Troubleshooting VM Fault Tolerance

67. Monitoring CPU

🎥 22 📦 30-60

68. Working with Datastores

🎥 17 📦 20-30

69. Pluggable Storage Architecture

70. vCenter High Availability (HA) Concepts

🎥 24 📦 20-30

71. vCenter HA Implementation

🎥 21 📦 30-45

72. Using VMware Docs and PDFs

73. vCenter Converter

74. Certification and Exam Prep Guidance

🎥 21 📦 10-15

## EXTRA MILE

### TAKE THE PRACTICE EXAM! One last time...

If you purchased the VMware practice exam, go through the test experience one last time ahead of your certification exam. Return to video Nuggets to brush up on areas of weakness identified by your practice exam results.

- [VMware Official Practice Test: VCP6.5-DCV 2V0-622](#)

## THE BIG DAY

Take the exam.

Get a good night's sleep ahead of your exam!



**Brag about it! Tweet us or let us know how your exam went and what you're doing to celebrate your success!**

The VCP6.5-DCV certification puts you on the path to a career in virtualization, but also opens up other pathways as well, including networking, virtualization, security, cloud computing, system administration, and more. Consider these pathways as you move beyond your VCP:

ENTRY LEVEL			INTERMEDIATE				ADVANCED	
NETWORKING								
CompTIA Network+	Cisco CCENT	Juniper JNCIA-Junos	CCNA Routing and Switching	CCNP Routing and Switching	Juniper JNCIS-ENT	Palo Alto Networks Firewall	Cisco CCIE Routing and Switching	
SECURITY								
CompTIA Security+	Cisco CCENT		CCNA Security	CCNP Security	Penetration Testing with Linux Tools	EC-Council Certified Ethical Hacker	(ISC) <sup>2</sup> CISSP	Cisco CCIE Security
VIRTUALIZATION								
CompTIA Network+	VMware vSphere Foundation		MCSA: Windows Server 2012 or 2016	CCNA Data Center	VMware VCP6.5-DCV	Cisco CCNP Data Center	MCSE: Cloud Platform and Infrastructure	VMware VCAP6.5-DCV Design or Deploy
CLOUD COMPUTING								
CompTIA Network+	LPI Linux LPIC-1 and CompTIA Linux+	AWS: Technical Essentials	AWS: Certified Solutions Architect - Associate	AWS: Certified SysOps Administrator - Associate	MCSA: Cloud Platform	MCSA: Linux on Azure	MCSE: Cloud Platform and Infrastructure	
SYSTEM ADMINISTRATION								
CompTIA A+	LPI Linux LPIC-1 and CompTIA Linux+	VMware vSphere Foundation	Microsoft MCSA: Windows 10	Microsoft MCSA: Office 365	MCSA: Windows Server 2012 or 2016	VMware vSphere 6.5 (VCP6.5-DCV)	MCSE: Cloud Platform and Infrastructure	

## CAREER PATHWAYS

CBT Nuggets is committed to providing you with the resources necessary to plan your training, certification, and career pathway effectively and efficiently. Review our Career Pathway blog posts to learn more.

- [Mapping Your IT Networking Career Pathway](#)
- [Mapping Your IT Networking Career Pathway Infographic](#)
- [Unlocking Your IT Security Career Pathway](#)
- [Decoding Your IT SysAdmin Career Pathway](#)
- [Charting Your IT Cloud and Virtualization Career Pathway](#)
- [Engineering Your IT DevOps Career Pathway](#)

### Roadmap to Success:

#### VMware vSphere 6.5 (VCP6.5-DCV)

Learn more about the VCP6.5-DCV certification from the CBT Nuggets blog. The [Roadmap to Success: VMware vSphere 6.5 \(VCP6.5-DCV\)](#) is part of a [series of blog posts](#) designed to help learners better understand certification pathways, career opportunities associated with those certifications, and next steps beyond certification.

## THE NEXT STEP

The VCP6.5-DCV certification is a professional-level certification that opens up a variety of opportunities. Usually, learners will pursue further VMware certifications following their VCP6.5-DCV, including:

- [VMware Network Virtualization \(VCA or VCP\)](#), or
- [VMware Cloud Management and Automation \(VCA or VCP\)](#).

If learners choose to continue to advance their careers with VMware products, some choose to pursue the VMware Advanced Professional Level.

- [VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design \(VCAP6.5-DCV Design\)](#) (made up of one exam: 3V0-624)
- [VMware Certified Advanced Professional 6.5 - Data Center Virtualization Deployment \(VCAP6.5-DCV Deploy\)](#) (made up of one exam: 3V0-623)

Many learners will opt to diversify their certification portfolios, so they may consider pursuing virtualization certifications from other vendors. Learners who earn their VCP6.5-DCV typically also consider:

- [Cisco CCNA Data Center](#) (made up of two exams: 200-150 DCICN and 200-155 DCICT)
- [Cisco CCNP Data Center](#) (made up of four exams: 300-175 DCUCI, 300-165 DCII, 300-170 DCVAI, and 300-160 DCID or 300-180 DCIT)
- [Microsoft MCSA: Windows Server 2012](#) (made up of three exams: 70-410, 70-411, and 70-412) or [Microsoft MCSA: Windows Server 2016](#) (made up of three exams: 70-740, 70-741, and 70-742)
- [Microsoft MCSE: Cloud Platform and Infrastructure](#) (following a prerequisite MCSA certification, the MCSE is made up of just one additional exam of your choice: 70-532, 70-533, 70-534, 70-473, 70-745, 70-744, 70-413, 70-414, 70-246, or 70-247).