

Microsoft MCSA: Windows Server 2016 70-741

Total Videos: 89 Time: 22 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.



Microsoft MCSA: Windows Server 2016

The Microsoft Certified Solutions Associate (MCSA): Windows Server 2016 certification is designed to prove mastery of the skills required to administer Windows Server 2016, including installation and implementation of storage solutions, Hyper-V, and Windows containers; networking with DNS, DHCP, IP address management, and advanced infrastructure; and administration of Active Directory Domain Services, group policy, Nano Server, and more.

Interestingly, Windows Server 2016 includes containers, which was once almost exclusively the purview of Linux/UNIX. The certification represents a new attitude of openness between Microsoft and the Linux Foundation and embodies Microsoft's embrace of open source.

The MCSA: Windows Server 2016 certification is made up of three exams, all of which are covered by CBT Nuggets training.

- 70-740: Installation, Storage, and Computer with Windows Server 2016
- 70-741: Networking with Windows Server 2016
- 70-742: Identity with Windows Server 2016

Typically, learners pursuing this certification path should have some familiarity (1-3 years) with Windows Server and experience working in an enterprise environment. The MCSA is considered an intermediate-level certification but has no prerequisite training or certifications.

Exam Details

Time allotted for exam: 120 minutes
Number of questions: 40-60*
Passing score: 700**
Question types: Multiple choice; multiple choice/multiple answer; scenario
Exam registration: Microsoft Learning or Pearson Vue
Exam cost: \$165 (USD)
Skills measured: Each exam registration page on the Microsoft website provides a
list of Skills Measured (which is a free resource) to guide your study and preparation.

• 70-741

Exam Replay: Microsoft exams have a reputation for being challenging. Many learners find they have to take an exam more than once to achieve a successful outcome. Fortunately, Microsoft is aware of the level of challenge associated with their exams, and often provides an "Exam Replay," allowing learners to retake exams at a fraction of the usual cost. Please note that the Exam Replay may not always be available.

*Microsoft does not publish the exact number of questions associated with its exams. Therefore, the number of questions a learner will see varies.

**Because the number of questions varies, it is not necessarily true that learners must earn a simple 70% to pass the exam.

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 doublespeed 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 doublespeed 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

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

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

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? 4. DNS Forwarding and PowerShell Intro ▶ 14 → 15-30 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 Microsoft MCSA: Windows Server 2016 70-741 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



Microsoft MCSA: Windows Server 2016 70-741

NEEK 1	1. Introduction to Networking with Windows Server 2016	3. Adding the DNS Server Role	4. DNS Forwarding and PowerShell Intro	5. DNS Root Hints	6. Adding Active Directory (AD)
	2. DNS and Labs Overview				
	🕞 15 🛱 15-30	D 17 🗇 30-45	🕞 14 🛱 15-30	D 18 🛱 30-45	▶ 17 🗊 30-45

EXTRA MILE

Explore the Microsoft Learning

website to learn more about the 70-741 exam, its requirements, and available resources.

Review the skills measured by the 70-741 exam. (Consider printing out the exam objectives to help guide your study!) Consider purchasing a textbook to supplement your training.

- MCSA Windows Server 2016 Complete Study Guide: Exam 70-740, Exam 70-741, Exam 70-742, and Exam 70-743, by William Panek
- Exam Ref 70-741 Networking with Windows Server 2016, by Andrew Warren
- MCSA Windows Server 2016 Study Guide: Exam 70-741, by William Panek

VIRTUAL 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.

WEEK 2	7. Troubleshooting DNS	8. DNS Records Overview	9. DNS Zones Overview	10. Reverse Lookup Zones	11. DNS Round Robin
	◎ 11 🛱 15-30	▶ 18 (1) 30-45	◎ 17 🖾 30-45	▶ 13 🖾 15-30	D 19 🖾 30-45
	EXTRA MILE Join the CBT Nugget Nuggets learners in study resources, con mentoring for your t	m Microsoft TechNet.	Create flashcards to quiz yourself on the content from your training! Or, use existing flashcard resources such as quizlet.com !		

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

WEEK 3	12. DNS Delegation 13. DNS Stub Zones	14. DNS GlobalNames Zone	16. DNS Security (DNSSEC)	17. DNS Cache Locking and Socket Pool 18. DNS Response Rate Limiting	19. DNS Policy: Load Balancing
	▶ 19 → 30-60	◎ 19 🗊 30-60	D 23	🕞 18 🗐 30-60	🕞 18 🗐 30-45
	EXTRA MILE Take some time to v review the DNS Police	cy Scenario Guide.	Learn more about security from the downloadable <mark>Windows Server 2016 Sec</mark> Guide from TechNet.		chievement is possible sistent work." ssell

20. DNS Policy: Client Source Address	21. DNS Policy: Time-based Requests	TAKE THE PRACTICE EXAM!	22. DNS Logging and Tuning	23. DNS Scavenging
▶ 14 🛱 15-30	⊚ 15 🛱 30-45	90-120	© 21 🛱 30-45	⊚ 6 🛱 15-30

TAKE THE PRACTICE EXAM!

Use the results to drive your review and practice as you continue your study*.

• Transcender Microsoft Cert - 70-741

Learn more about Understanding Aging and Scavenging from Microsoft's TechNet.

*Keep in mind that you've not completed the training yet, so you probably won't ace this exam. This is just to help you assess how well you are retaining the material you've learned so far!

WEEK 5	24. DANE and TLSA Records	25. DNS Stats, Management, and Servers	26. DNS Resource Record Hands-on Lab	27. DHCP Overview and Install	28. DHCP Scope Creation
	23 30-45	⊚ 10 🛱 15-30	🕑 18 🖾 30-45	D 13 🛱 15-30	D 26 🗇 30-45

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! Work your flashcards until you start dreaming Server 2016 concepts and acronyms! Visit **quizlet.com** or continue working with your own flashcards. Explore this bonus set of quizlet.com flashcards addressing **DNS Server Commandlets**.

WEEK 6	29. DHCP Reservations	30. DHCP Options	31. DHCP Relay Configuration	32. DHCP Relay Verification and Troubleshooting	33. DHCP Dynamic Updates to DNS
	▶ 16 → 30-45	▶ 16 → 30-45	🕑 19 🗊 30-45	22 30-45	⊚ 13 🛱 30-45
	EXTRA MILE Dig a little deeper Configuration Prov Microsoft Docs.		Learn more about <mark>What's New in DH</mark> Server 2016 from Microsoft Docs.	excellence.	is the twin sister of Dne is a matter of quality; matter of time." gan

WEEK 7	34. DHCP PXE Boot Support	35. DHCP Super and Multicast Scopes	36. DHCP Policies	37. DHCP Preparing IPv6 Networking	38. DHCP Creating IPv6 Scopes
	13 30-45	© 22 🗊 30-45	8 (15-30)	© 24 🛱 45-60	D 18 🛱 30-45

Return to your **flashcards** this week to ensure you are committing all the necessary content to memory!

Optional Supplemental Learning: Consider watching this additional course to deepen your understanding of IPv6.

• IPv6: Concepts, Implementation, and Verification of IPv6 with trainer Keith Barker (34 videos, 21 hours)

WEEN 8	39. DHCP Split Scopes	40. DHCP Failover	TAKE THE PRACTICE EXAM!	41. DHCP User Classes 42. DHCP Backup, Restore, Import, Export	43. DHCP L2 MAC Filtering
	🕞 13 🛱 30-45	◎ 17 🛱 30-45	90-120	🕞 19 🗊 30-60	9 15-30
	EXTRA MILE Use the results to • Transcender M *You should see strong results guide your stud	othing in the world can ce of persistence."			

WEEK 9	44. DHCP Troubleshooting	45. IPAM Overview and Installation	46. Manage DNS using IPAM	47. Manage DHCP using IPAM	48. IPAM Role-based Access Control (RBAC)
	D 16 💭 30-45	18 🗊 30-45	D 16 🗊 30-45	13 🗐 30-45	(▶) 15 (⊕) 30-45
	EXTRA MILE Learn more about (IPAM) from Micro	0	Consider adding these IPAM Cmdle Microsoft TechNet to your flashcards		

WEEK 10	49. Using IPAM to Manage IP Addresses	50. IPAM Migration and Auditing	51. Dynamic NAT/PAT	52. Port Forwarding NAT/PAT	53. Remote Access VPNs
	21 30-45	🕞 12 🛱 15-30	◎ 23 🛱 30-45	◎ 15 🗊 30-45	② 29 ⊕ 45-60
		/irtual Private Networking oft's Windows IT Center.	Learn more about how to Manage V in Windows Server Essentials from Microsoft Docs.	PN "Opportunit create them. - Chris Grosse	

WEEK 11	54. DirectAccess	55. VPN Connection Profiles using CMAK	56. Site-to-Site VPN	57. Local Network Policy Server Fundamentals	58. Local NPS and AD Interaction
	23 30-45	D 17 🗊 30-45	22 30-45	21 30-45	D 12 🗊 12-30
	EXTRA MILE Explore the Netwo Best Practices from IT Center.	n Microsoft's Windows	Learn more about How to Configur DirectAccess VPN on Server 2016 from technig.com.	e "I find that t luck I seem - Thomas Jeffe	

WEEK 12	59. NPS with RADIUS	60. RADIUS Proxy 61. RADIUS Accounting	TAKE THE PRACTICE EXAM!	62. NPS Imports, Exports, and Templates	63. Using Digital Certificates with VPNs
	22 🗇 30-45	② 27 ③ 30-60	90-120	▶ 8 → 15-30	D 16 🗊 30-45

TAKE THE PRACTICE EXAM!

Use the results to drive your review and practice as you continue your study*.

• Transcender Microsoft Cert - 70-741

Dig a little deeper with Microsoft's Windows IT Center to **Plan NPS as a RADIUS Proxy**.

*You still haven't finished your training yet, so don't expect to earn 100% on your practice exam. But look for areas of strength as well as areas where you can work to improve your performance.

WEEK 13	 64. IPv4 Overview and Considerations 65. Binary Basics 66. Learning to Convert Between Decimal and Binary 67. Unveiling the IPv4 Mask 	68. Stealing Host Bits for More Networks 69. Identifying New IPv4 Subnets	 70. Identify Valid Host Ranges on Subnets 71. Identify How Many Hosts Will Fit on a Subnet 72. Extract the Subnet ID from a Host Address 	73. Demonstrating Your IPv4 Skills in the Lab 74. IPv6 Fundamentals	75. Border Gateway Protocol (BGP)
	≥ 38	© 38	⊘ 37	© 27	🕞 13 🛱 15-30

EXTRA MILE

Optional Supplemental Learning: Consider watching this additional course to deepen your understanding of IPv4.

Get some **subnetting practice** from lammle.com.

• IPv4 Subnetting: The Ultimate Guide with trainer Keith Barker (16 videos, 4 hours)

WEEK 14	76. ISATAP	77. Teredo Tunnels	78. 6to4 Tunnels	79. Implementing DFS Namespaces	80. Namespace Availability 81. DFS Site Awareness
	◎ 15 🗊 30-45	⊚ 10 🗊 15-30	D 15 🗇 30-45	▶ 16 30-45	21 30-60
	Microsoft Exam Repl	e. Consider purchasing the	Review Microsoft's Exam Policies and FA fully understand the testing conditions y on the big day!	ou'll face The more they	ucceed have momentum. succeed, the more they want to he more they find a way
ۍ د	82. DFS Scheduling,	83. BranchCache Overview	84. NIC Teaming	86. High-performance	88. Software Load Balancer
IEK -	Staging, Compression, and Optimization	and Install	85. Switch Embedded	Network Solutions	(SLB) Overview
M			Teaming (SET)	87. Quality of Service (QoS) with Data Center Bridging (DCB)	89. Software Defined Networking (SDN) Overview
	10 15-30	D 18 🛱 30-45	▶ 15 🗊 30-60	◎ 16 🛱 15-30	▶ 16 🛱 30-60
	EXTRA				

MILE

Review the **Skills Measured** by the 70-741 exam. Review each section to ensure that your preparations align with the exam expectations.

Take some time this week to consider your test-taking strategies. Different people attack their exams differently. Be intentional about building a strategy that will help you manage your time well and set you up to be successful. Learn more about exam day strategies from the CBT Nuggets blog.

Understand the value of the various skills measured by the 70-741 exam:

- Implement Domain Name System (DNS) (15-20%)
- Implement DHCP (15-20%)
- Implement IP Address Management (15-20%)
- Implement network connectivity and remote access solutions (25-30%)
- Implement core and distributed network solutions (10-15%)
- Implement an advanced network infrastructure (15-20%)

TAKE THE PRACTICE EXAM! One last time Transcender Microsoft Cert - 70-741 Return to video Nuggets to brush up on areas of weakness identified by your practice exam results. Image: Po-120	ent that to work on acronyms you'll need	VIRTUAL LABS Flashcards: They worked for you in grade school, they can work for you now!	VIRTUAL LABS Your flashcards can help you deal with rote memorization.
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WEEK 16

TAKE THE PRACTICE EXAM!

Use the results to drive your review and practice as you continue your study*.

• Transcender Microsoft Cert - 70-741

*As a general rule of thumb, learners who successfully pass certification exams consistently score 90% or better on practice exams. Pay attention to those topics where you may need to dedicate more time and effort to master.

Take time to revisit a variety of your virtual labs to continue earning the hands-on experience you'll need ahead of your exam.

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 MCSA: Windows Server 2016 certification puts you on the path to a career in system administration, 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 MCSA:

ENTRY LEVEL				INTERMEDIATE					ADVANCED		
NETWORK	KING										
CompTIA Network+	Cisco CCENT	Juniper JNCIA-Junos	CCNA and Sw	<u> </u>	CNP Routing nd 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) ² CISSP	Cisco CCIE Security	

VIRTUALI	ZATION					
CompTIA Network+	VMware vSphere Foundation	MCSA: Windows Server 2012	CCNA Data Center	VMware VCP6.5-DCV	Cisco CCNP Data Center	MCSE: Cloud Platform and Infrastructure

CLOUD CC	MPUTING						
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	Platf	SE: Cloud form and astructure

SYSTEM ADMINISTRATION									
CompTIA A+	LPI Linux LPIC-1 and CompTIA Linux+	VMware vSphere Foundation	Powershell 4 Foundations (no associated certification)	Microsoft MCSA: Windows 10	Microsoft MCSA: Office 365	MCSA: Windows Server 2012	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: MCSA: Windows Server 2016

Learn more about the MCSA certification from the CBT Nuggets blog. The Roadmap to Success: MCSA: Windows Server 2016 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 MCSA is a building block to allow learners to earn a variety of other certifications from Microsoft. After earning the MCSA: Windows Server 2016 certification, most learners take the next step by earning an MCSE (Microsoft Certified Solutions Expert) certification. The MCSE allows learners to select from a variety of elective exams, effectively customizing the certification to meet their unique needs. The expert-level certification aligned with the MCSA: Windows Server 2016 is the MCSE: Cloud Platform and Infrastructure certification. To earn the MCSE, learners must choose one elective exam from a pool of exam options:

• 70-532	• 70-534	• 70-475	• 70-413	• 70-246
• 70-533	• 70-473	• 70-744	• 70-414	• 70-247

Some learners may choose to diversify their certification resumes by pursuing certifications outside the Microsoft universe. Those who choose this path often consider the following certifications:

- Cisco CCNA Routing and Switching (made up of two exams: ICND1 and ICND2)
- AWS Certified SysOps Administrator Associate (made up of one exam: AWS Certified SysOps Administrator Associate)
- VMware vSphere 6.5 (made up of one exam: VCP6.5-DCV)