

# CCP MODULE 17

## Advanced Cloud Virtualization

Arcitura®  
CERTIFIED  
Cloud Virtualization  
Specialist

### OVERVIEW

This course builds upon Module 16 by exploring a range of industry practices and management and design topics for cloud-based contemporary virtualization environments, by breaking them down into design patterns and technologies that can be combined to form common cloud-based technology architectures and solutions.

The following primary topics are covered:

- Connectivity and Accessibility Considerations
- Virtual Server and Virtual Switch Isolation
- NAT/Host and External Connectivity
- Performance, Capacity and Scaling Considerations
- Direct I/O and Single Root I/O Virtualization
- LUN Access and NIC Teaming
- Elastic Resources and Resource Workload Management
- Load Balanced Virtual Server and Virtual Switches
- Different Forms of Virtual Server and Host Affinity/Non-Affinity
- Memory Over-Committing and Power Consumption Reduction
- Failover and Recovery and Zero Downtime
- Resource Pooling and Reservation and Auto Crash Recovery
- Hypervisor Clustering and Redundant Physical Connections
- Migration and Relocation Considerations
- Cross-Hypervisor Workload Mobility and Non-Disruptive Service Relocation
- Persistent Virtual Network Configurations and Virtual Server Folder Migration
- Virtual Disk Splitting and Stateless Hypervisors

Duration: 1 Day

### TRAINING + CERTIFICATION

This course is part of a training and accreditation program through which official certification can be achieved and for which official training and certification badges can be issued.

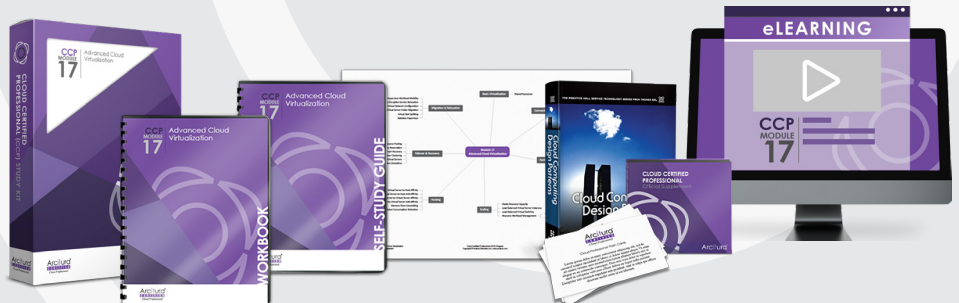


[www.arcitura.com/ccp/virtualization](http://www.arcitura.com/ccp/virtualization)

### eLEARNING + PRINTED STUDY KITS

This Arcitura study kit includes the contents listed below. These course materials are available in full-color printed format, as well as in eLearning subscription format, via online access and offline file download.

- Workbook
- Self-Study Guide
- Mind Map Poster
- Flashcards
- Cloud Computing Design Patterns eBook
- Audio Tutor Recordings (usb)



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## Advanced Cloud Virtualization

	Certified Cloud Professional*	Certified Cloud Technology Professional	Certified Cloud Architect	Certified Cloud Security Specialist	Certified Cloud Governance Specialist	Certified Cloud Storage Specialist	Certified Cloud Virtualization Specialist
MODULE 01 Fundamental Cloud Computing	●	●	●	●	●	●	●
MODULE 02 Cloud Technology Concepts	●	●	●	●	●	●	●
MODULE 03 Cloud Technology Lab		●					
MODULE 04 Fundamental Cloud Architecture			●				
MODULE 05 Advanced Cloud Architecture			●				
MODULE 06 Cloud Architecture Lab			●				
MODULE 07 Fundamental Cloud Security				●			
MODULE 08 Advanced Cloud Security				●			
MODULE 09 Cloud Security Lab				●			
MODULE 10 Fundamental Cloud Governance					●		
MODULE 11 Advanced Cloud Governance					●		
MODULE 12 Cloud Governance Lab					●		
MODULE 13 Fundamental Cloud Storage						●	
MODULE 14 Advanced Cloud Storage						●	
MODULE 15 Cloud Storage Lab						●	
MODULE 16 Fundamental Cloud Virtualization							●
<b>MODULE 17 Advanced Cloud Virtualization</b>							●
MODULE 18 Cloud Virtualization Lab							●

\* The Certified Cloud Professional designation is automatically issued when achieving any other CCP certification. It can also be achieved by receiving passing grades on Exams C90.01 + C90.02.