

Official CompTIA learning resources  
for Instructor-Led Training:

# CompTIA Cloud+

Official CompTIA learning resources for Instructor-Led Training are designed with the instructor in mind, providing insights and tools for successfully training learners pursuing their CompTIA Cloud+ certification.

## OVERVIEW

**The Official CompTIA Cloud+ Guide (Exam CV0-002)** will give students the skills necessary to evaluate and implement standard cloud deployments. Students will use cloud technologies, including network, storage, and virtualization components, to create cloud solutions. Students will also manage workload migrations, manage cloud vendors to control costs, use automation and orchestration to bring business value from cloud solutions, and ensure cloud security. It provides full coverage of the objectives for the CompTIA Cloud+ certification and will help prepare students to take the exam.

### OFFICIAL LEARNING RESOURCES

- The Official CompTIA Cloud+ Instructor Guide (Exam CV0-002)
- The Official CompTIA Cloud+ Student Guide (Exam CV0-002)
- CompTIA Learning Center – Digital Learning Platform – included with purchase of print and eBook
- CompTIA Cloud+ (Exam CV0-002) CompTIA Labs

## WHY ARE OFFICIAL COMPTIA LEARNING RESOURCES DIFFERENT?

- **For Exam Takers by the Exam Developer** - Official CompTIA learning resources are the only study material exclusively developed by CompTIA for the CompTIA certification candidate.
- **Developed with the instructor in mind** - Official CompTIA learning resource's focus on instruction are unique, providing instructors ease and flexibility to teach to any audience within any modality.
- **Complete Library** - No other content library covers all exam objectives for all certifications. It provides complete breadth, depth and currency of material unavailable with competitors.

## KEY FEATURES AND BENEFITS

- **Designed and Class-tested for Instructor-Led Training** using proven instructional design. Topics are presented in a hierarchy that offers knowledge, procedural tasks and hand-on activities that require students put knowledge into practice. This approach keeps student engaged and ensures success.
- **Focused on job roles and 100% coverage of exam objectives** means learning resources are practical, based on real performance scenarios. In addition, learning resources are aligned to certification exam objectives.
- **Active Learning** is integrated with one activity per topic designed to enable students to practice guidelines and procedures as well as solidify understanding of the informational material presented in the course.
- **Flexible and customizable based on course format** whether the course is co-located or remote, synchronous or asynchronous. Class resources can be easily configured based on modality.

## LABS

CompTIA Labs, hosted by Learn on Demand Systems, allow students to learn in actual software applications through a remote lab environment. Labs allow students to practice what they are learning using real, hands-on experiences. Students have access to the software environment for 180 days after a CompTIA Labs access key is redeemed, providing a post-class resource for students to practice their skills.

## EXAM PREP OPTION

CertMaster Practice is an online assessment and remediation tool designed to help students feel more confident and prepared for their CompTIA exam.



## ENHANCED LEARNING RESOURCES

The Official CompTIA Cloud+ Guides include the accompanying resources:

Comprehensive <b>INSTRUCTOR</b> resources ensure successful course delivery by providing:	Comprehensive <b>STUDENT</b> resources engage students by providing:
<ul style="list-style-type: none"><li>• <b>Course-specific delivery tips</b> provide the instructor with additional insights to deliver the course successfully</li><li>• <b>Facilitator notes</b> in instructor guide</li><li>• <b>Solutions</b> to activities and discussions</li><li>• <b>PowerPoint slides:</b> A complete set of slides to facilitate the class including lists, tables, diagrams, illustrations, annotated screens and activity summaries</li><li>• <b>Presentation Planners</b> help plan and schedule courses based on different course lengths</li><li>• <b>Solutions:</b> Instructors have solutions to Activities and Discussion Questions embedded within the Instructor Guide.</li></ul>	<ul style="list-style-type: none"><li>• <b>eBook:</b> An interactive online version of the book, along with secure PDF and downloadable versions</li><li>• <b>Files:</b> Any course files available to download</li><li>• <b>Videos:</b> Brief videos, developed exclusively for CompTIA by ITProTV, provide demonstrations of key activities in the course</li><li>• <b>Assessment:</b> A series of different assessments for each lesson as well an overall self-assessment</li><li>• <b>PowerPoint slides</b></li><li>• <b>Solutions</b> to activities and discussions</li><li>• <b>Strengths and Weaknesses Dashboard:</b> Students assessments results are aggregated in the Strengths and Weaknesses dashboard to provide an indicator of their overall performance in the course.</li></ul>

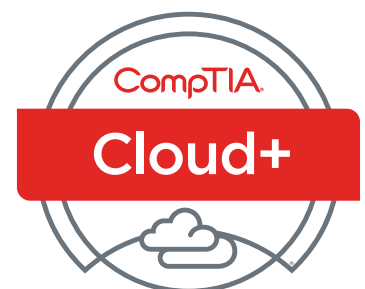
## COURSE OVERVIEW

This course is for students who are preparing for the CompTIA Cloud+ certification exam CV0-002.

The course is intended for IT professionals who wish to develop cloud computing skills to enable them to move IT workloads to the cloud and integrate products and services from different providers and industries. The focus is to ensure that cloud deployments are secure, that automation and orchestration are used effectively to bring business value from the cloud, and that costs are controlled through effective management of cloud vendors.

## JOB ROLES

- **Systems Administrator**
- **Network Administrator**
- **Systems Engineer**
- **Network Engineer**
- **Cloud Developer**
- **Project Manager, Cloud**
- **Cloud Engineer**
- **Cloud Specialist**
- **Computing Services**
- **Manager, Data Center SANs**
- **Business Analyst, Cloud Computing**



## PREREQUISITES

Students should have 24-36 months' experience with IT networking, network storage, and data center administration. Students should also have familiarity with any major hypervisor technologies for server virtualization, basic knowledge of common cloud service models, and common cloud deployment models.

TABLE OF CONTENTS		
<p><b>Lesson 1: Preparing to Deploy Cloud Solutions</b>            Topic A: Describe Interaction of Cloud Components and Services            Topic B: Describe Interaction of Non-cloud Components and Services            Topic C: Evaluate Existing Components and Services for Cloud Deployment            Topic D: Evaluate Automation and Orchestration Options            Topic E: Prepare for Cloud Deployment</p>	<p><b>Lesson 2: Deploying a Pilot Project</b>            Topic A: Manage Change in a Pilot Project            Topic B: Execute Cloud Deployment Workflow            Topic C: Complete Post-Deployment Configuration</p>	<p><b>Lesson 3: Testing Pilot Project Deployments</b>            Topic A: Identify Cloud Service Components for Testing            Topic B: Test for High Availability and Accessibility            Topic C: Perform Deployment Load Testing            Topic D: Analyze Test Results</p>
<p><b>Lesson 4: Designing a Secure and Compliant Cloud Infrastructure</b>            Topic A: Design Cloud Infrastructure for Security            Topic B: Determine Organizational Compliance Needs</p>	<p><b>Lesson 5: Designing and Implementing a Secure Cloud Environment</b>            Topic A: Design Virtual Network for Cloud Deployment            Topic B: Determine Network Access Requirements            Topic C: Secure Networks for Cloud Interaction            Topic D: Manage Cloud Component Security            Topic E: Implement Security Technologies</p>	<p><b>Lesson 6: Planning Identity and Access Management for Cloud Deployments</b>            Topic A: Determine Identity Management and Authentication Technologies            Topic B: Plan Account Management Policies for the Network and Systems            Topic C: Control Access to Cloud Objects            Topic D: Provision Accounts</p>
<p><b>Lesson 7: Determining CPU and Memory Sizing for Cloud Deployments</b>            Topic A: Determine CPU Size for Cloud Deployment            Topic B: Determine Memory Size for Cloud Deployment</p>	<p><b>Lesson 8: Determining Storage Requirements for Cloud Deployments</b>            Topic A: Determine Storage Technology Requirements            Topic B: Select Storage Options for Deployment            Topic C: Determine Storage Access and Provisioning Requirements            Topic D: Determine Storage Security Options</p>	<p><b>Lesson 9: Analyzing Workload Characteristics to Ensure Successful Migration</b>            Topic A: Determine the Type of Cloud Deployment to Perform            Topic B: Manage Virtual Machine and Container Migration            Topic C: Manage Network, Storage, and Data Migration</p>
<p><b>Lesson 10: Maintaining Cloud Systems</b>            Topic A: Patch Cloud Systems            Topic B: Design and Implement Automation and Orchestration for Maintenance</p>	<p><b>Lesson 11: Implementing Backup, Restore, Disaster Recovery, and Business Continuity Measures</b>            Topic A: Back Up and Restore Cloud Data            Topic B: Implement Disaster Recovery Plans            Topic C: Implement Business Continuity Plans</p>	<p><b>Lesson 12: Analyzing Cloud Systems for Performance</b>            Topic A: Monitor Cloud Systems to Measure Performance            Topic B: Optimize Cloud Systems to Meet Performance Criteria</p>
<p><b>Lesson 13: Analyzing Cloud Systems for Anomalies and Growth Forecasting</b>            Topic A: Monitor for Anomalies and Resource Needs            Topic B: Plan for Capacity            Topic C: Create Reports on Cloud System Metrics</p>	<p><b>Lesson 14: Troubleshooting Deployment, Capacity, Automation, and Orchestration Issues</b>            Topic A: Troubleshoot Deployment Issues            Topic B: Troubleshoot Capacity Issues            Topic C: Troubleshoot Automation and Orchestration Issues</p>	<p><b>Lesson 15: Troubleshooting Connectivity Issues</b>            Topic A: Identify Connectivity Issues            Topic B: Troubleshoot Connectivity Issues</p>
<p><b>Lesson 16: Troubleshooting Security Issues</b>            Topic A: Troubleshoot Identity and Access Issues            Topic B: Troubleshoot Attacks            Topic C: Troubleshoot Other Security Issues</p>		

## PURCHASE EVERYTHING IN ONE PLACE

Official CompTIA learning resources are available on the CompTIA Store at <https://store.comptia.org/>, which means partners will be able to obtain Official CompTIA learning resources, CompTIA CertMaster products and exam vouchers all in one place. Please contact your CompTIA business development representative for more information.

