



# CompTIA Cloud+ Certification

Course CT-10C      Five Days - Instructor-led - Hands-on

## Introduction

If you're looking to earn the challenging but rewarding CompTIA Cloud+ certification—and a career in cloud services, then this course is the ideal resource for you. This five-day, instructor led course not only helps you prepare for taking the new CompTIA Cloud+ Exam CV0-003, it will provide you with thorough coverage of the important topics that every cloud computing professional needs to be familiar with, including: configuration and deployment; security; maintenance; management; and troubleshooting.

In this course, you will apply the skills required to evaluate and implement standard deployments. You will implement, maintain, and deliver cloud technologies including network, storage, and virtualization technologies to create cloud solutions. You will manage workload migrations, manage cloud vendors to control costs, use automation and orchestration to bring business value from cloud solutions, and ensure security of cloud implementations through the use of cybersecurity best practices.

This comprehensive course covers all aspects of cloud computing infrastructure and administration, with a practical focus on real-world skills.

## Audience

This course is designed 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. Their 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.

This course is also designed for students who are preparing to take the CompTIA Cloud+ certification exam CV0-003, or who plan to use Cloud+ as the foundation for more advanced cloud certifications or career roles.

## At Course Completion

Upon successful completion of this course, students will gain the following skills and knowledge as you deploy, test, secure, manage, optimize, and troubleshoot a cloud solution.

- Prepare to deploy cloud solutions
- Deploy a pilot project.
- Test a pilot project deployment.
- Design a secure network for cloud deployment.

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- Determine CPU and memory sizing for cloud deployments.
- Determine storage requirements for cloud deployments.
- Plan Identity and Access Management for cloud deployments.
- Analyze workload characteristics to ensure successful migration to the cloud.
- Secure systems to meet access requirements.
- Maintain cloud systems.
- Implement backup, restore, and business continuity measures.
- Analyze cloud systems for required performance.
- Analyze cloud systems for anomalies and growth forecasting.
- Troubleshoot deployment, capacity, automation, and orchestration issues.
- Troubleshoot connectivity issues.
- Troubleshoot security issues

## **Prerequisites**

To ensure your success in this course, you should have 24-36 months' experience with IT networking, network storage, and data center administration. You should also have familiarity with any major hypervisor technologies for server virtualization, basic knowledge of common cloud service models, and common cloud deployment models.

## **CompTIA Certified Professional Exams**

This course is also designed for students who are preparing to take the CompTIA Cloud+ certification exam CV0-002, or who plan to use Cloud+ as the foundation for more advanced cloud certifications or career roles.

## **Student Materials**

The student kit includes the following:

- Comprehensive workbook

## **Course Outline**

### **Module 1: An Introduction to Cloud Computing Configurations and Deployments**

- Introducing cloud computing
- Creating and validating a cloud deployment
- Verifying system requirements

### **Module 2: Cloud Deployments**

- Executing a cloud deployment
- Matching data center resources to cloud resources
- Configuring and deploying storage

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- Performing a server migration
- Managing user identities and roles

### **Module 3: Security in the Cloud**

- Cloud security compliance and configurations
- Access control

### **Module 4: Implementing Cloud Security**

- Implementing security in the cloud
- Automating cloud security

### **Module 5: Maintaining Cloud Operations**

- Applying security patches
- Updating cloud elements
- Storage operations

### **Module 6: Disaster Recovery, Business Continuity and Ongoing Maintenance**

- Implement a disaster recovery and business continuity plan
- Business continuity
- Cloud maintenance

### **Module 7: Cloud Management**

- Cloud metrics
- Adding and removing cloud resources

### **Module 8: Cloud Management Baselines, Performance and SLAs**

- Measuring your deployment against the baseline

### **Module 9: Troubleshooting**

- Incident management
- Troubleshooting cloud capacity issues
- Troubleshooting automation and orchestration process and workflow issues

### **Module 10: Troubleshooting Networking and Security Issues and Understanding Methodologies**

- Troubleshooting cloud networking issues
- Troubleshooting security issues
- Troubleshooting methodology