
COMPTIA CLOUD PLUS (CVO-002)

Who Should Attend

CompTIA Cloud+ validates the skills you need to maintain and optimize cloud infrastructure services. Ideal candidates should have completed CompTIA Network Plus and/or CompTIA Storage+, though not required. They should have at least 24-36 months of work experience in IT networking, network storage, or data center administration. Candidates should also have familiarity with any major hypervisor technologies for server virtualization, though vendor-specific certifications in virtualization are not required.

Course Objectives

Upon successful completion of this course, students will be able to:

- Understand characteristics and services of cloud environment from a business perspective.
- Understand types of Cloud from a technical perspective.
- Understand Business value and importance of cloud computing.
- Understand steps to successfully adopt and implement cloud in an enterprise.
- Understand changes and impact on IT service delivery management.
- Understand risks and consequences.

Course Outline

Lesson 1: Preparing to Deploy Cloud Solutions

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

Lesson 2: Deploying a Pilot Project

Topic A: Manage Change in a Pilot Project

Topic B: Execute Cloud Deployment Workflow

Topic C: Complete Post-Deployment Configuration

Lesson 3: Testing Pilot Project Deployments

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

Lesson 4: Designing a Secure and Compliant Cloud Infrastructure

Topic A: Design Cloud Infrastructure for Security

Topic B: Determine Organizational Compliance Needs

Lesson 5: Designing and Implementing a Secure Cloud Environment

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

Lesson 6: Planning Identity and Access Management for Cloud Deployments

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

Lesson 7: Determining CPU and Memory Sizing for Cloud Deployments

Topic A: Determine CPU Size for Cloud Deployment

Topic B: Determine Memory Size for Cloud Deployment

Lesson 8: Determining Storage Requirements for Cloud Deployments

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

Lesson 9: Analyzing Workload Characteristics to Ensure Successful Migration

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

Lesson 10: Maintaining Cloud Systems

Topic A: Patch Cloud Systems

Topic B: Design and Implement Automation and Orchestration for Maintenance

Lesson 11: Implementing Backup, Restore, Disaster Recovery, and Business Continuity Measures

Topic A: Back Up and Restore Cloud Data

Topic B: Implement Disaster Recovery Plans

Topic C: Implement Business Continuity Plans

Lesson 12: Analyzing Cloud Systems for Performance

Topic A: Monitor Cloud Systems to Measure Performance

Topic B: Optimize Cloud Systems to Meet Performance Criteria

Lesson 13: Analyzing Cloud Systems for Anomalies and Growth Forecasting

Topic A: Monitor for Anomalies and Resource Needs

Topic B: Plan for Capacity

Topic C: Create Reports on Cloud System Metrics

Lesson 14: Troubleshooting Deployment, Capacity, Automation, and Orchestration Issues

Topic A: Troubleshoot Deployment Issues

Topic B: Troubleshoot Capacity Issues

Topic C: Troubleshoot Automation and Orchestration Issues

Lesson 15: Troubleshooting Connectivity Issues

Topic A: Identify Connectivity Issues

Topic B: Troubleshoot Connectivity Issues

Lesson 16: Troubleshooting Security Issues

Topic A: Troubleshoot Identity and Access Issues

Topic B: Troubleshoot Attacks

Topic C: Troubleshoot Other Security Issues