CompTIA
AUTHORIZED
PARTNER

COURSE OUTLINE

Course Name: CompTIA Cloud+

DURATION	SKILLS LEVEL	DILIVERY METHOD	TRAINING CREDITS	TECHNOLOGY
5 Days	Intermediate	Instructor-Led	50	Cloud Computing

Course Description:

The CompTIA Cloud+ course provides participant with the knowledge 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.

Those attending this course will have their focus on ensuring 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 participants 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.

Prerequisites:

Before attending this course, students should have:

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

Target Audience:

This guide 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.

Learning Objectives:

On completion of the course, delegates will be able to:

- Prepare to deploy cloud solutions.
- Deploy a pilot project.
- Test a pilot project deployment.
- Design a secure network for cloud deployment.
- Determine CPU and memory sizing for cloud deployments.
- Determine storage requirements for cloud deployments.
- Plan Identity and Access Management for cloud deployments.
- Analyse 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.
- Analyse cloud systems for required performance.
- Analyse cloud systems for anomalies and growth forecasting.
- Troubleshoot deployment, capacity, automation, and orchestration issues.
- Troubleshoot connectivity issues.
- Troubleshoot security issues.

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: Analyse 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

Lesson 9: Analysing 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 This course will prepare students to take the CompTIA Cloud+ CVO-002 exam Recovery Plans
- Topic C: Implement Business Continuity Plans

Lesson 12: Analysing Cloud Systems for Performance
- Topic A: Monitor Cloud Systems to Measure Performance
- Topic B: Optimize Cloud Systems to Meet Performance Criteria

Lesson 13: Analysing 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

Associated Exam and Certification
This course will prepare students to take the **CompTIA Cloud+ CVO-002 exam.**

Successfully passing this exam will result in the attainment of the **CompTIA Cloud+ certification.**

After completing this course students will receive a Netcampus course attendance certification.

The CompTIA Cloud+ certification is valid for three (3) years from the day of your successful completion of the exam.

Exams and Certifications

Notes and Annotations

What is Next