CompTIA Cloud+

Duration	Delivery Methods
5 Days	VILT, Private Group

In this course, you will learn how to implement, maintain, and deliver cloud technologies including network, storage, and virtualization technologies to create cloud solutions.

This course will also prepare you for the CompTIA Cloud+ certification exam CV0-003.

Who Should Attend

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.

Course Objectives

On course completion, participants 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
- 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

Agenda

1 - PREPARING TO DEPLOY CLOUD SOLUTIONS

- Describe Interaction of Cloud Components and Services
- Describe Interaction of Non-cloud Components and Services
- Evaluate Existing Components and Services for Cloud Deployment
- Evaluate Automation and Orchestration Options
- Prepare for Cloud Deployment

2 - DEPLOYING A PILOT PROJECT

- Manage Change in a Pilot Project
- Execute Cloud Deployment Workflow
- Complete Post-Deployment Configuration

3 - TESTING PILOT PROJECT DEPLOYMENTS

- Identify Cloud Service Components for Testing
- Test for High Availability and Accessibility
- Perform Deployment Load Testing
- Analyze Test Results

4 - DESIGNING SECURE AND COMPLIANT CLOUD INFRASTRUCTURE

- Design Cloud Infrastructure for Security
- Determine Organizational Compliance Needs

EDUCATE 360
877.243.6690
info@educate360.com

5 - DESIGNING AND IMPLEMENTING A SECURE CLOUD ENVIRONMENT

- Design Virtual Network for Cloud Deployment
- Determine Network Access Requirements
- Secure Networks for Cloud Interaction
- Manage Cloud Component Security
- Implement Security Technologies

6 - PLANNING IDENTITY AND ACCESS MANAGEMENT FOR CLOUD DEPLOYMENTS

- Determine Identity Management and Authentication Technologies
- Plan Account Management Policies for the Network and Systems
- Control Access to Cloud Objects
- Provision Accounts

7 - DETERMINING CPU AND MEMORY SIZING FOR CLOUD DEPLOYMENTS

- Determine CPU Size for Cloud Deployment
- Determine Memory Size for Cloud Deployment

8 - DETERMINING STORAGE REQUIREMENTS FOR CLOUD DEPLOYMENTS

- Determine Storage Technology Requirements
- Select Storage Options for Deployment
- Determine Storage Access and Provisioning Requirements
- Determine Storage Security Options

9 - ANALYZING WORKLOAD CHARACTERISTICS TO ENSURE SUCCESSFUL MIGRATION

- Determine the Type of Cloud Deployment to Perform
- Manage Virtual Machine and Container Migration
- Manage Network, Storage, and Data Migration

10 - MAINTAINING CLOUD SYSTEMS

- Patch Cloud Systems
- Design and Implement Automation and Orchestration for Maintenance

11 - IMPLEMENTING BACKUP, RESTORE, DISASTER RECOVERY, AND BUSINESS CONTINUITY MEASURES

- Back Up and Restore Cloud Data
- Implement Disaster Recovery Plans
- Implement Business Continuity Plans

12 - ANALYZING CLOUD SYSTEMS FOR PERFORMANCE

- Monitor Cloud Systems to Measure Performance
- Optimize Cloud Systems to Meet Performance Criteria

EDUCATE 360
877.243.6690
info@educate360.com

13 - ANALYZING CLOUD SYSTEMS FOR ANOMALIES AND GROWTH FORECASTING

- Monitor for Anomalies and Resource Needs
- Plan for Capacity
- Create Reports on Cloud System Metrics

14 - TROUBLESHOOTING DEPLOYMENT, CAPACITY, AUTOMATION, AND ORCHESTRATION ISSUES

- Troubleshoot Deployment Issues
- Troubleshoot Capacity Issues
- Troubleshoot Automation and Orchestration Issues

15 - TROUBLESHOOTING CONNECTIVITY ISSUES

- Identify Connectivity Issues
- Troubleshoot Connectivity Issues

16 - TROUBLESHOOTING SECURITY ISSUES

- Troubleshoot Identity and Access Issues
- Troubleshoot Attacks
- Troubleshoot Other Security Issues

EDUCATE 360
877.243.6690
info@educate360.com