CompTIA Cloud+ Certification

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

Target 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 CV0-002, or who plan to use Cloud+ as the foundation for more advanced cloud certifications or career roles.

Course Objectives
In this course, you will deploy, test, secure, manage, optimize, and troubleshoot a cloud solution.

You will:
- 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

Course Outline

Register Online

Schedule
Class Length: 5 Days

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Register Online
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

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

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

Designing a Secure and Compliant Cloud Infrastructure
Design Cloud Infrastructure for Security
Determine Organizational Compliance Needs

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

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

Determining CPU and Memory Sizing for Cloud Deployments
Determine CPU Size for Cloud Deployment
Determine Memory Size for Cloud Deployment
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

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

Maintaining Cloud Systems

Patch Cloud Systems
Design and Implement Automation and Orchestration for Maintenance

Implementing Backup, Restore, Disaster Recovery, and Business Continuity Measures

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

Analyzing Cloud Systems for Performance

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

Analyzing Cloud Systems for Anomalies and Growth Forecasting

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

Troubleshooting Deployment, Capacity, Automation, and Orchestration Issues

Troubleshoot Deployment Issues
Troubleshoot Capacity Issues
Troubleshoot Automation and Orchestration Issues
Troubleshooting Connectivity Issues

Identify Connectivity Issues
Troubleshoot Connectivity Issues

Troubleshooting Security Issues

Troubleshoot Identity and Access Issues
Troubleshoot Attacks
Troubleshoot Other Security Issues

Related Courses, Certifications, Exams

- CV0-002 - CompTIA Cloud+