CompTIA Cloud+

Overview

the CompTIA Cloud+ course offers knowledge and skills required for working in a Cloud Computing environment. This course is intended for IT personnel who need to understand and deliver cloud infrastructures in their organizations. It is recommended for professionals with 2-3 years of work experience in data center administration, IT networking and storage or familiarity with hypervisor technology and server virtualization.

Course Outline

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

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

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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

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