

CompTIA Cloud+ (CV0-003)

This foundational CompTIA Cloud+ training prepares cloud specialists for the CV0-003 exam, which is the one required exam to earn the Cloud+ certification. This Cloud+ training gives you everything you need to prepare for Cloud+ and covers the diverse skills and knowledge needed to excel in a data center job.

[CBT Nuggets course material](#) →

WEEK 1

Get Started with CompTIA Cloud+

- Getting Started with the Cloud+
- Why Get Cloud Certified?
- Why Get a CompTIA Certification?
- Is Cloud+ Right For Me?
- CompTIA Resources
- How to Use the Course Ahead

Explain Cloud Principles

- Overview
- Explaining Cloud Principles
- Cloud Characteristics
- Shared Responsibility
- Infrastructure-as-a-Service
- Platform-as-a-Service
- Software-as-a-Service
- Deployment Models

Identify Benefits of Utilizing Cloud Services

- Overview
- Benefits of Utilizing Cloud Services
- Big Data, Machine Learning, and Artificial Intelligence
- Marketing Campaigns
- Service Subscriptions
- Self-Service Catalogs

WEEK 2

Collaboration Tools

Plan for Advanced Cloud Deployment Models

Overview

Planning for Advanced Cloud Models

Understanding Multitenancy

Hybrid versus Multi-Cloud

Cloud within a Cloud

Internet of Things

Serverless Applications

Identify Cloud Survivability Patterns

Overview

Identifying Cloud Survivability Patterns

Recovery Time Objective

Recovery Point Objective

Redundant Redundancy

High Availability

Disaster Recovery

Hybrid Cloud Disaster Recovery Patterns

Perform Cloud Assessments

Overview

Performing Cloud Project Assessments

Gap Analysis

Gather Requirements

WEEK 3

Working with Stakeholders

Baselines, Benchmarks, and Reporting

Documentation and Diagrams

Feasibility Study

Plan for Cloud Security and Compliance

Overview

Cloud Security and Compliance

Threats and Vulnerabilities

Proactive Security Scanning

Data Security

Application and Infrastructure Security

Compliance Standards and Certifications

Plan for Cybersecurity in the Cloud

Overview

Plan for Cloud Cybersecurity

Security Patterns and Controls

Cloud Storage Security

WEEK 4

Cloud Network Security

Cloud Compute Security

Cloud Security Solutions

Certificates and the PKI

Overview

Intro to Digital Certificates and the PKI

Symmetrical vs Asymmetrical Encryption

Scanning, Monitoring & Patching

Scanning, Monitoring & Patching

Plan for Cloud Policies, Procedures, and Risk Management

Overview

Plan for Cloud Governance

Risk Management

Resource Management

Vendor Lock-In and Data Portability

Documentation

Policies and Procedures

WEEK 7

Regulatory and Policy-Based Incident Response

Overview

Regulatory and Policy-Based Incident Response - Objectives

Dealing with Prohibited Activities

Incident Response

The Chain of Custody

Software Licensing

Sensitive Data

Incident Response and Forensic Data Collection

Overview

Identifying an Incident

Containing and Mitigating an Outbreak

Forensic Data Collection

Forensics In the Cloud

Forensic Evidence Management

Identify Cloud Service Architectures

Overview

Cloud Service Architectures and Patterns

Identity and Access Management

Microservices and Containers

Event-driven Behavior

Blockchain

Virtual Desktop Infrastructure

Identify Cloud Storage Technologies

Identifying Cloud Storage Technologies

Cloud Storage Features

WEEK 8

Cloud Storage Characteristics

Block Storage

File Storage

Object Storage

Software-Defined Storage

Content Distribution Networks

Provision Cloud and Virtualized Storage

Overview

Plan for Virtual Storage

Types of Storage

SAN vs NAS Comparison

File Storage Protocols
Block Storage Protocols
Plan for Tiered Storage
Redundant Array of Independent Disks
Hyper-Converged Storage

Identify Cloud Networking Concepts

Overview
Identifying Cloud Networking Concepts
Connectivity Types
Access Types

WEEK 9

Software Defined Networks
Load Balancers
Name Resolution and Domain Name System
Filtering Network Traffic with Firewalls

Plan for Capacity, High Availability, and Scaling

Overview
Plan for Capacity Management
Determine Baselines
Virtual Host Capacity Planning
Resource Oversubscription
Hypervisor Affinity
Automated Scaling
Cloud Bursting

Plan for Cloud Migration and Vendor Relations

Overview
Cloud Migrations and Vendor Relations
Evaluate Cloud Solutions
Training and Up-Skilling
Professional Services

WEEK 10

Statement of Work
Service Level Agreements
Open Source vs Proprietary Software
Migration Approaches

Plan for Cloud Workload Migration

Overview
Migrating to Virtualized Workloads
Virtualization Suitability Assessment
Migrate Physical-to-Virtual Workloads
Migrate Virtual-to-Virtual Workloads
Migrate Cloud-to-Cloud Workloads
Storage Migration
Database Migration

Plan for Cloud DevOps

Overview
Planning for Cloud DevOps
Defining DevOps
Provisioning Cloud Resources
Continuous Integration, Deployment, and Delivery

WEEK 11

Testing and Configuration Management

API Integration

Plan for Cloud Deployment Finances and Reporting

Overview

Cloud Finances and Reporting

Service Usage & Plans

Budgeting

Bills and Billing

Licensing and License Management

Maintenance and Optimization

Cloud Account Management

Plan for Backup, Restore, and Disaster Recovery

Overview

Plan for Backup and Recovery

Backup Sources

Types of Backups

Backup Destinations and Media

Plan to Restore

WEEK 12

Disaster Recovery Sites

Cloud Architecture and Design Exam Review

Overview

Cloud+ Domain 1 Exam Objectives

Cloud Models Review

Capacity Planning Review

Scaling and High Availability Review

Designing for Business Requirements Review

Capacity Planning Scenario Challenge

Cloud Security Exam Review

Overview

Cloud+ Domain 2 Exam Objectives

Identity & Access Management Review

Network Security Review

OS and Application Security Controls Review

WEEK 13

Data Security & Compliance Review

Security Requirements Review

Incident Response Review

Network Security Scenario

Cloud Deployment Exam Review

Overview

Cloud+ Domain 3 Exam Objectives

Integrating Cloud Components Review

Provisioning Cloud Storage Review

Deploying Cloud Networks Review

Compute Sizing Review

Cloud Migrations Review

Cloud Operations & Support Exam Review

Overview

Cloud+ Domain 4 Exam Objectives

Logging, Monitoring, and Alerting Review

Cloud Operations Review

Cloud Optimization Review

Automation and Orchestration Review

Backup and Restore Review

Disaster Recovery Review