

# CompTIA Cloud+ Certification Training (CV0-004)

## Course Overview

CompTIA Cloud+ goes beyond theoretical knowledge, focusing on practical, hands-on skills required of today's cloud operations job roles. Cloud+ covers all the essential areas of cloud infrastructure including implementation, optimization, security, and troubleshooting to ensure that learners are prepared for the diverse challenges they'll face as they advance in their IT careers. Organizations seeking to hire trained cloud professionals can count on Cloud+ to validate the skills necessary to be efficient and succeed on the job.

The Cloud+ certification exam validates successful candidates have the skills and knowledge required to:

- Understand cloud architecture and design concepts
- Implement and maintain a secure cloud environment
- Successfully provision and configure cloud resources
- Demonstrate the ability to manage operations throughout the cloud environment life cycle using observability, scaling and automation
- Understand fundamental DevOps concepts related to deployment and integration
- Troubleshoot common issues related to cloud management

The Cloud+ certification is good for three years from the day of passing the exam. Cloud+ is compliant with ISO 17024 standards and approved for DoD 8140.03M. Cloud+ shows what learners can do, not just what they know, for the work roles of network operations specialist, systems administrator, enterprise architect, and security architect.

## Course Prerequisites

Learners should possess 5 years of tech experience. Ideally 2-3 years of that experience would include networking or systems administration.

## Associated Certifications

Cloud+

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### Module 1: Understanding Cloud Architecture Concepts

- Lesson 1.1: Recognize Cloud Concepts and Service Models
- Lesson 1.2: Recognize Cloud Terms
- Lesson 1.3: Technologies in the Cloud
- Lesson 1.4: Troubleshoot the Cloud Environment

## Module 2: Planning Cloud Services

- Lesson 2.1: Cloud-native Design
- Lesson 2.2: Cloud Deployment Models
- Lesson 2.3: Cloud Deployment Strategies

## Module 3: Provisioning and Migrating Cloud Resources

- Lesson 3.1: Provision Cloud Resources
- Lesson 3.2: Aspects of Cloud Migration
- Lesson 3.3: Cloud Migration Considerations

## Module 4: Comparing Cloud Storage

- Lesson 4.1: Storage Resources and Technologies

## Module 5: Troubleshooting Deployment Issues and Cost

- Lesson 5.1: Troubleshoot Deployment and Migration Issues
- Lesson 5.2: Cost Considerations Related to Cloud Usage

## Module 6: Using Virtualization and Databases

- Lesson 6.1: Virtualization Concepts
- Lesson 6.2: Containerization Concepts
- Lesson 6.3: Database Concepts

## Module 7: Comprehending Cloud Networking

- Lesson 7.1: Cloud Networking Concepts
- Lesson 7.2: Network Functions
- Lesson 7.3: Network Components
- Lesson 7.4: Network Services
- Lesson 7.5: Cloud Network Services
- Lesson 7.6: Troubleshoot Network Issues

## Module 8: Automating Cloud Resources

- Lesson 8.1: Deploy and Configure Cloud Resources Using Code
- Lesson 8.2: Continuous Integration Continuous Deployment Pipelines
- Lesson 8.3: Tools Used in DevOps Environments
- Lesson 8.4: Source Control Concepts
- Lesson 8.5: Scripting
- Lesson 8.6: Integration of Systems

## Module 9: Implementing Security Management

- Lesson 9.1: Identity and Access Management Concepts
- Lesson 9.2: Security Controls in the Cloud
- Lesson 9.3: Vulnerability Management Concepts
- Lesson 9.4: Monitoring Suspicious Activities to Identify Common Attacks

## Module 10: Comprehending Security Compliance and Troubleshooting

- Lesson 10.1: Aspects of Compliance and Regulation
- Lesson 10.2: Security Best Practices
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## Module 11: Implementing Performance and Monitoring

- Lesson 11.1: Optimize Workloads Using Cloud Resources
- Lesson 11.2: Configure Appropriate Scaling Approaches
- Lesson 11.3: Configure Resources to Achieve Observability
- Lesson 11.4: Managing the Life Cycle of Cloud Resources

## Module 12: Managing Disaster Recovery and Business Continuity

- Lesson 12.1: Backup and Recovery Methods
- Lesson 12.2: Service Availability Concepts

## Exam Details

Launch date – September 2024

Number of questions – Maximum of 90 questions

Type of questions – Multiple choice and performance-based

Length of test – 90 minutes

Passing score – 750 (on a scale of 100–900)

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**For More Information Please Contact: Vnohow (Thailand) Co., Ltd.**

90/31 Sathorn Thani Building 1, 12FL., North Sathorn Road, Silom, Bangrak, Bangkok 10500 Thailand

Tel +662-634-3287-9, +662-634-3299 Email [vnohow@vnohow.com](mailto:vnohow@vnohow.com) Website [www.vnohow.com](http://www.vnohow.com)