

Cloud+

Course Description & Overview

SecureNinja's CompTIA Cloud+ (CV0-004) certification training prepares IT professionals to deploy, secure, and manage cloud environments that support mission-critical applications and infrastructure. This vendor-neutral course is ideal for enterprise technologists working across multiple cloud platforms. It covers hands-on configuration, resource management, security controls, and troubleshooting in public, private, and hybrid cloud deployments.

Participants will learn to evaluate cloud designs, implement secure automation, monitor and support performance, and resolve issues in complex cloud systems. This course supports roles such as cloud engineer, systems administrator, and DevOps professional by building a practical skill set applicable across AWS, Azure, Google Cloud, and more.

Why Choose CompTIA Cloud+ (CV0-004)

- **Vendor-Neutral Focus:** Covers multi-cloud and hybrid environments, not limited to a single provider.
- **Hands-On Readiness:** Emphasizes practical skills with automation, orchestration, and cloud toolchains.
- **Security-Driven:** Integrates risk management and identity/access control into cloud operations.
- **Career-Oriented:** Prepares for high-demand roles like cloud engineer, cloud analyst, and systems architect.

Topics Covered

- Analyze requirements for high availability, scalability, and secure design.
- Deploy cloud services using infrastructure as code, containers, and orchestration tools.
- Perform daily maintenance, automation, and resource lifecycle management in the cloud.
- Apply encryption, access control, monitoring, and compliance techniques to cloud platforms.
- Understand CI/CD pipelines, automation, integration strategies, and toolchains.
- Resolve configuration, connectivity, performance, and security-related cloud issues.

Who is it for

- **Systems Administrators:** Professionals managing servers, workloads, and environments in the cloud.
- **Cloud Engineers:** Those building and supporting cloud solutions across multiple platforms.
- **DevOps Specialists:** Individuals using automation and orchestration to optimize deployment pipelines.
- **Network Administrators:** IT staff tasked with supporting cloud-based networks and interconnectivity.

Who Would Benefit

- IT Professionals: Those transitioning into cloud-native infrastructure and services roles.
- Security Analysts: Professionals managing risk and security controls in cloud systems.
- Technical Project Managers: Leaders guiding cloud migration and implementation initiatives.

Prerequisites

2–3 years of experience in system administration, networking, or cloud computing is recommended. Prior exposure to virtualization technologies and basic cloud services is helpful but not required.

Course Outline

1.0 Cloud Architecture

- Design principles for secure, scalable, and highly available systems.
- Evaluating cloud service models and cloud-native design.

2.0 Deployment

- Automated provisioning with code and templates.
- Workload migration and multi-cloud deployments.

3.0 Operations

- Backup strategies, logging, monitoring, and maintenance tasks.
- Managing cloud resource lifecycles.

4.0 Security

- IAM, encryption, vulnerability management, and logging best practices.
- Applying policies and compliance frameworks to cloud operations.

5.0 DevOps Fundamentals

- Understanding DevOps culture, CI/CD pipelines, and infrastructure as code.
- Toolchains for integration, monitoring, and deployment automation.

6.0 Troubleshooting

- Diagnosing cloud-related issues in performance, configuration, security, and connectivity.
- Tools and methodologies for root cause analysis.

Course Length

- 5 Days
- 40 Hours

Exam Details

- Exam Number CV0-004
- Number of Questions: Up to 90
- Question Types: Multiple-choice and performance-based
- Duration: 90 Minutes
- Passing Score: 750 (on a scale of 100–900)

The CompTIA Cloud+ CV0-004 certification is an essential credential for professionals managing enterprise cloud environments. With a strong emphasis on security, automation, and multi-platform interoperability, this training ensures participants are prepared to support dynamic, resilient, and secure cloud systems in a production environment.