EDUSUM
#1 Online Certification Guide

COMPTIA CV0-004

CompTIA Cloud+ Certification Questions & Answers

Exam Summary – Syllabus –Questions

CV0-004
CompTIA Cloud+
90 Questions Exam – 750/900 Cut Score – Duration of 90 minutes

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Know Your CV0-004 Certification Well:

The CV0-004 is best suitable for candidates who want to gain knowledge in the CompTIA Infrastructure. Before you start your CV0-004 preparation you may struggle to get all the crucial Cloud+ materials like CV0-004 syllabus, sample questions, study guide.

But don't worry the CV0-004 PDF is here to help you prepare in a stress-free manner.
The PDF is a combination of all your queries like-

- What is in the CV0-004 syllabus?
- How many questions are there in the CV0-004 exam?
- Which Practice test would help me to pass the CV0-004 exam at the first attempt?

Passing the CV0-004 exam makes you CompTIA Cloud+. Having the Cloud+ certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

CompTIA CV0-004 Cloud+ Certification Details:

Exam Name	CompTIA Cloud+
Exam Code	CV0-004
Exam Price	$369 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	750 / 900
Books / Training	**CertMaster Learn for Cloud+** **CertMaster Practice for Cloud+**
Schedule Exam	**Pearson VUE**
Sample Questions	**CompTIA Cloud+ Sample Questions**
Practice Exam	**CompTIA CV0-004 Certification Practice Exam**

CV0-004 Syllabus:

Topic	**Details**
Cloud Architecture - 23%	
Given a scenario, use the appropriate cloud service model.	- Cloud service models • Infrastructure as a service (IaaS) • Platform as a service (PaaS) • Software as a service (SaaS) • Function as a service (FaaS) - Shared responsibility model
Explain concepts related to service availability.	- Resource availability • Region • Availability zone • Cloud bursting • Edge computing • Availability monitoring - Disaster recovery (DR) • Recovery time objective (RTO) • Recovery point objective (RPO) • Hot site • Warm site • Cold site - Multicloud tenancy
Explain cloud networking concepts.	- Public and private connections to the cloud • Virtual private network (VPN) • Dedicated connections - Network functions, components, and services • Application load balancer • Network load balancer • Application gateway • Content delivery network (CDN) • Firewalls • Virtual private cloud (VPC) - Peering - Transit gateway • Subnets • Routing and switching - Virtual local area network (VLAN) - Software-defined network (SDN) - Border Gateway Protocol (BGP) - Static routes - Route tables

Topic	**Details**
Compare and contrast storage resources and technologies.	- Tiered storage • Hot • Warm • Cold • Archive - Disk types • Solid-state drive (SSD) • Hard disk drive (HDD) - Storage types • Object storage • Block storage • File storage - Performance implications - Cost implications
Explain the purpose of cloud-native design concepts.	- Cloud-provided managed services - Microservices - Loosely coupled architecture - Fan-out - Service discovery
Compare and contrast containerization concepts.	- Stand-alone - Workload orchestration - Networking • Port mapping - Storage types • Persistent volumes • Ephemeral storage - Image registries
Compare and contrast virtualization concepts.	- Stand-alone - Clustering - Cloning - Host affinity - Hardware pass-through - Network types • Overlay networks • Virtual machine (VM) networks - Storage • Local • Storage area network (SAN) • Network-attached storage (NAS)
Summarize cost considerations related to cloud usage.	- Billing models • Dedicated host • Reserved resources

Topic	Details
	• Pay-as-you-go • Spot instance - Resource metering - Tagging - Rightsizing
Explain the importance of database concepts.	- Types • Relational • Non-relational - Deployment options • Self-managed • Provider-managed
Compare and contrast methods for optimizing workloads using cloud resources.	- Compute resources • VM • Container • Serverless - Orchestration - Workflow - Network • Latency • Throughput - Storage • Input/output operations per second (IOPS) • Throughput - Managed services
Identify evolving technologies in the cloud.	- Machine learning and artificial intelligence (AI) • Text recognition • Text translation • Visual recognition • Sentiment analysis • Voice-to-text • Text-to-voice • Generative AI - Internet of Things (IoT) • Sensors • Gateways • Communication • Transmission protocols
Deployment - 19%	
Compare and contrast cloud deployment models.	- Public - Private • On premises

Topic	Details
	- Hybrid - Community
Given a scenario, implement appropriate deployment strategies.	- Blue-green - Canary - Rolling - In-place
Summarize aspects of cloud migration.	- Migration types • On-premises–to-cloud • Cloud-to–on-premises • Cloud-to-cloud - Resource allocation - Considerations • Storage • Platform compatibility • Compute • Cost • Networking • Management overhead • Service availability • Vendor lock-in • Environmental - Power and cooling • Regulatory • Compliance - Application migration strategies • Rehost • Replatform • Re-architect • Retain • Retire • Refactor
Given a scenario, use code to deploy and configure cloud resources.	- Infrastructure as code (IaC) - Configuration as code (CaC) - Scripting logic • Variables • Conditionals • Operators • Data types • Functions - Repeatability - Drift detection - Versioning

Topic	Details
	- Testing - Documentation - Formats • JavaScript Object Notation (JSON) • Yet Another Markup Language (YAML)
Given a set of requirements, provision the appropriate cloud resources.	- Storage requirements - Performance requirements - Security requirements - Cost requirements - Availability requirements - Compliance requirements - Network requirements - Compute requirements
Operations - 17%	
Given a scenario, configure appropriate resources to achieve observability.	- Logging • Collection • Aggregation • Retention - Tracing - Monitoring • Metrics - Alerting • Triage • Response
Given a scenario, configure appropriate scaling approaches.	- Approaches • Triggered - Trending - Load - Event • Scheduled • Manual - Types • Horizontal • Vertical
Given a scenario, use appropriate backup and recovery methods.	- Backup types • Incremental • Full • Differential - Backup locations • On site • Off site

Topic	Details
	- Schedule - Retention - Replication - Encryption - Testing • Recoverability • Integrity - Recovery types • In-place • Parallel - Recovery options • Bulk • Granular
Given a scenario, manage the life cycle of cloud resources.	- Patches - Updates • Major • Minor - Testing - Data • Ephemeral • Persistent - Decommissioning • End of life • End of support
Security - 19%	
Explain vulnerability management concepts.	- Steps • Scanning scope • Identification • Assessment • Remediation - Common Vulnerabilities and Exposures (CVEs)
Compare and contrast aspects of compliance and regulation.	- Data sovereignty - Data ownership - Data locality - Data classification - Data retention • Litigation hold • Contractual • Regulatory - Industry standards • Systems and Organization Controls 2 (SOC2)

Topic	Details
	• Payment Card Industry Data Security Standards (PCI DSS) • International Organization for Standardization (ISO) 27001 • Cloud Security Alliance
Given a scenario, implement identity and access management.	- Secure access to the cloud management environment • Programmatic access - Application programming interface (API) - Software development kit (SDK) • Common Language Infrastructure (CLI) • Web portal - Secure access to the cloud resources • API • Secure Shell (SSH) • Remote Desktop Protocol (RDP) • Bastion host - Authentication models • Local users • Federation - Security Assertion Markup Language (SAML) • Token-based • Directory-based • Multifactor authentication (MFA) • OpenID Connect - Authorization models • Role-based access control • Group-based access control • OAuth 2.0 • Discretionary - Accounting • Audit trail
Given a scenario, apply security best practices.	- Zero Trust - Benchmark • Center for Internet Security (CIS) • Vendor-specific - Hardening - Patching - Encryption • Data in transit • Data at rest - Secrets management - API security

Topic	Details
	- Principle of least privilege - Container security • Privileged • Unprivileged • File access permissions - Storage security • Object storage • File storage
Given a scenario, apply security controls in the cloud.	- Endpoint protection - Data loss prevention (DLP) - Intrusion prevention system/intrusion detection system (IPS/IDS) - Distributed denial-of-service (DDoS) protection - Identity and access management (IAM) policies - Firewall • Network access control list (ACL) • Web application firewall (WAF) • Network security group
Given a scenario, monitor suspicious activities to identify common attacks.	- Event monitoring - Deviation from the baseline - Unnecessary open ports - Attack types • Vulnerability exploitation - Human error - Outdated software • Social engineering - Phishing • Malware - Ransomware • DDoS • Cryptojacking • Zombie instances • Metadata
DevOps Fundamentals - 10%	
Explain source control concepts.	- Version management - Code review - Pull request - Code push - Code commit - Code merge - Branch management

Topic	Details
Explain concepts related to continuous integration/continuous deployment (CI/CD) pipelines.	- Automation - Code integration - Code deployment • Build - Testing - Security - Workflow - Artifacts • Images - VM - Container • Packages - Red Hat Package Manager (RPM) - Debian - ZIP - tar • Flat file - Repositories • Public • Private
Explain concepts related to integration of systems.	- Event-driven architectures - Web services • Representational State Transfer (REST) • Simple Object Access Protocol (SOAP) • Remote procedure call (RPC) - Web sockets - GraphQL
Explain the importance of tools used in DevOps environments.	- Ansible - Docker - Elasticsearch, Logstash, and Kibana (ELK) stack - Git - GitHub actions - Grafana - Jenkins - Kubernetes - Terraform
Troubleshooting - 12%	
Given a scenario, troubleshoot deployment issues.	- Incompatibility - Misconfigurations • Resource allocation • Permission issues • Oversubscription

Topic	Details
	• Sizing issues - Outdated component definitions - Deprecation of functionality - Outages • Full • Partial - Resource limits • API throttling • Service quotas - Regional service availability
Given a scenario, troubleshoot network issues.	- Network service unavailability • Dynamic Host Configuration Protocol (DHCP) • Domain Name System (DNS) • Network Time Protocol (NTP) • Network Address Translation (NAT) • Hypertext Transfer Protocol (HTTP) - Status codes - Latency - Bandwidth/throughput issues - Network device misconfiguration - Protocol incompatibility - Protocol deprecations - IP addressing issues • Scope exhaustion • Network overlap - Routing issues • Missing routes • Misconfigured routes - Switching issues • VLAN issues - Misconfigured tags • Access vs. trunk ports
Given a scenario, troubleshoot security issues.	- Cipher suite deprecations - Authorization issues • Privilege escalation • Unauthorized access - Authentication issues • Leaked credentials - Software vulnerability issues - Unauthorized software

CompTIA CV0-004 Sample Questions:

Question: 1

Developers want to speed up application deployment across multiple environments. Which DevOps practices should they implement?

a) Continuous delivery and automated testing
b) Manual configuration and testing
c) Enabling public repositories for all artifacts
d) Logging and manual scaling

Answer: a

Question: 2

A security audit reveals that several cloud resources are not encrypted. Which steps should you prioritize?

a) Enable encryption for data at rest
b) Disable public access for unencrypted resources
c) Apply key rotation policies
d) Use shared keys for encryption

Answer: a, c

Question: 3

In DevOps workflows, ________ ensures infrastructure provisioning is repeatable and consistent.

a) Manual deployment
b) Artifact management
c) Continuous delivery
d) Infrastructure as Code (IaC)

Answer: d

Question: 4

To ensure high availability, organizations often use _________ to replicate data across multiple locations.

a) Replication policies
b) Data encryption
c) Differential backups
d) Manual scaling

Answer: a

Question: 5

Which storage type is best suited for storing large, unstructured data, such as videos or backups?

a) Block storage
b) File storage
c) Object storage
d) Local storage

Answer: c

Question: 6

Cloud bursting refers to using a _________ to meet additional capacity during peak demand.

a) Dedicated private cloud
b) Hybrid cloud
c) Multi-cloud strategy
d) CDN

Answer: b

Question: 7

________ is the practice of ensuring that data access and usage comply with regulatory standards.

a) Data compliance
b) Vulnerability management
c) Encryption
d) Zero Trust

Answer: a

Question: 8

What is the primary function of a content delivery network (CDN)?

a) To provide persistent storage for large datasets
b) To cache content closer to end-users for faster access
c) To secure connections to public cloud networks
d) To manage container orchestration across regions

Answer: b

Question: 9

The primary objective of a _______ in a virtual network is to route traffic between subnets.

a) Gateway
b) Firewall
c) Load balancer
d) Router

Answer: d

Question: 10

Your team is using IaC to provision resources but finds discrepancies between the actual infrastructure and the code. What should they implement?

a) Continuous deployment
b) Drift detection
c) Configuration logs
d) Multi-cloud integration

Answer: b

Study Guide to Crack CompTIA Cloud+ CV0-004 Exam:

- Getting details of the CV0-004 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the CV0-004 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the CompTIA provided training for CV0-004 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the CV0-004 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on CV0-004 practice tests is must. Continuous practice will make you an expert in all syllabus areas.