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# COMPTIA CV0-003

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**CompTIA Cloud+ Certification Questions & Answers**

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Exam Summary – Syllabus – Questions

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**CV0-003**

**[CompTIA Cloud+](#)**

**90 Questions Exam - 750/900 Cut Score - Duration of 90 minutes**

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## Know Your CV0-003 Certification Well:

The CV0-003 is best suitable for candidates who want to gain knowledge in the CompTIA Infrastructure. Before you start your CV0-003 preparation you may struggle to get all the crucial Cloud+ materials like CV0-003 syllabus, sample questions, study guide.

But don't worry the CV0-003 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 CV0-003 syllabus?
- How many questions are there in the CV0-003 exam?
- Which Practice test would help me to pass the CV0-003 exam at the first attempt?

Passing the CV0-003 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 CV0-003 Cloud+ Certification Details:

Exam Name	CompTIA Cloud+
Exam Code	CV0-003
Exam Price	\$338 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	750 / 900
Schedule Exam	<a href="#">CompTIA Marketplace</a> <a href="#">Pearson VUE</a>
Sample Questions	<a href="#">CompTIA Cloud+ Sample Questions</a>
Practice Exam	<a href="#">CompTIA CV0-003 Certification Practice Exam</a>

## CV0-003 Syllabus:

Topic	Details
<p><b>Cloud Architecture and Design - 13%</b></p>	
<p>Compare and contrast the different types of cloud models.</p>	<ul style="list-style-type: none"> <li>- Deployment models               <ul style="list-style-type: none"> <li>• Public</li> <li>• Private</li> <li>• Hybrid</li> <li>• Community</li> <li>• Cloud within a cloud</li> <li>• Multicloud</li> <li>• Multitenancy</li> </ul> </li> <li>- Service models               <ul style="list-style-type: none"> <li>• Infrastructure as a Service (IaaS)</li> <li>• Platform as a Service (PaaS)</li> <li>• Software as a Service (SaaS)</li> </ul> </li> <li>- Advanced cloud services               <ul style="list-style-type: none"> <li>• Internet of Things (IoT)</li> <li>• Serverless</li> <li>• Machine learning/Artificial intelligence (AI)</li> </ul> </li> <li>- Shared responsibility model</li> </ul>
<p>Explain the factors that contribute to capacity planning.</p>	<ul style="list-style-type: none"> <li>- Requirements               <ul style="list-style-type: none"> <li>• Hardware</li> <li>• Software</li> <li>• Budgetary</li> <li>• Business need analysis</li> </ul> </li> <li>- Standard templates               <ul style="list-style-type: none"> <li>• Per-user</li> <li>• Socket-based</li> <li>• Volume-based</li> <li>• Core-based</li> <li>• Subscription</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Licensing</li> <li>- User density</li> <li>- System load</li> <li>- Trend analysis               <ul style="list-style-type: none"> <li>• Baselines</li> <li>• Patterns</li> <li>• Anomalies</li> </ul> </li> <li>- Performance capacity planning</li> </ul>
<p>Explain the importance of high availability and scaling in cloud environments.</p>	<ul style="list-style-type: none"> <li>- Hypervisors               <ul style="list-style-type: none"> <li>• Affinity</li> <li>• Anti-affinity</li> </ul> </li> <li>- Oversubscription               <ul style="list-style-type: none"> <li>• Compute</li> <li>• Network</li> <li>• Storage</li> </ul> </li> <li>- Regions and zones</li> <li>- Applications</li> <li>- Containers</li> <li>- Clusters</li> <li>- High availability of network functions               <ul style="list-style-type: none"> <li>• Switches</li> <li>• Routers</li> <li>• Load balancers</li> <li>• Firewalls</li> </ul> </li> <li>- Avoid single points of failure</li> <li>- Scalability               <ul style="list-style-type: none"> <li>• Auto-scaling</li> <li>• Horizontal scaling</li> <li>• Vertical scaling</li> <li>• Cloud bursting</li> </ul> </li> </ul>
<p>Given a scenario, analyze the solution design in support of the business requirements.</p>	<ul style="list-style-type: none"> <li>- Requirement analysis               <ul style="list-style-type: none"> <li>• Software</li> <li>• Hardware</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Integration</li> <li>• Budgetary</li> <li>• Compliance</li> <li>• Service-level agreement (SLA)</li> <li>• User and business needs</li> <li>• Security</li> <li>• Network requirements               <ol style="list-style-type: none"> <li>1. Sizing</li> <li>2. Subnetting</li> <li>3. Routing</li> </ol> </li> <li>- Environments               <ul style="list-style-type: none"> <li>• Development</li> <li>• Quality assurance (QA)</li> <li>• Staging</li> <li>• Blue-green</li> <li>• Production</li> <li>• Disaster recovery (DR)</li> </ul> </li> <li>- Testing techniques               <ul style="list-style-type: none"> <li>• Vulnerability testing</li> <li>• Penetration testing</li> <li>• Performance testing</li> <li>• Regression testing</li> <li>• Functional testing</li> <li>• Usability testing</li> </ul> </li> </ul>
<p><b>Security - 20%</b></p>	
<p>Given a scenario, configure identity and access management.</p>	<ul style="list-style-type: none"> <li>- Identification and authorization               <ul style="list-style-type: none"> <li>• Privileged access management</li> <li>• Logical access management</li> <li>• Account life-cycle management                   <ol style="list-style-type: none"> <li>1. Provision and deprovision accounts</li> </ol> </li> <li>• Access controls                   <ol style="list-style-type: none"> <li>1. Role-based</li> <li>2. Discretionary</li> <li>3. Non-discretionary</li> <li>4. Mandatory</li> </ol> </li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Directory services               <ul style="list-style-type: none"> <li>• Lightweight directory access protocol (LDAP)</li> </ul> </li> <li>- Federation</li> <li>- Certificate management</li> <li>- Multifactor authentication (MFA)</li> <li>- Single sign-on (SSO)               <ul style="list-style-type: none"> <li>• Security assertion markup language (SAML)</li> </ul> </li> <li>- Public key infrastructure (PKI)</li> <li>- Secret management</li> <li>- Key management</li> </ul>
<p>Given a scenario, secure a network in a cloud environment.</p>	<ul style="list-style-type: none"> <li>- Network segmentation               <ul style="list-style-type: none"> <li>• Virtual LAN (VLAN)/Virtual extensible LAN (VXLAN)/Generic network virtualization encapsulation (GENEVE)</li> <li>• Micro-segmentation</li> <li>• Tiering</li> </ul> </li> <li>- Protocols               <ul style="list-style-type: none"> <li>• Domain name service (DNS)                   <ol style="list-style-type: none"> <li>1. DNS over HTTPS (DoH)/DNS over TLS (DoT)</li> <li>2. DNS security (DNSSEC)</li> </ol> </li> <li>• Network time protocol (NTP)                   <ol style="list-style-type: none"> <li>1. Network time security (NTS)</li> </ol> </li> <li>• Encryption                   <ol style="list-style-type: none"> <li>1. IPsec</li> <li>2. Transport layer security (TLS)</li> <li>3. Hypertext transfer protocol secure (HTTPS)</li> </ol> </li> <li>• Tunneling                   <ol style="list-style-type: none"> <li>1. Secure Shell (SSH)</li> <li>2. Layer 2 tunneling protocol (L2TP)/Point-to-point tunneling protocol (PPTP)</li> <li>3. Generic routing encapsulation (GRE)</li> </ol> </li> </ul> </li> <li>- Network services               <ul style="list-style-type: none"> <li>• Firewalls                   <ol style="list-style-type: none"> <li>1. Stateful</li> <li>2. Stateless</li> </ol> </li> <li>• Web application firewall (WAF)</li> <li>• Application delivery controller (ADC)</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Intrusion protection system (IPS)/Intrusion detection system (IDS)</li> <li>• Data loss prevention (DLP)</li> <li>• Network access control (NAC)</li> <li>• Packet brokers</li> </ul> <p>- Log and event monitoring</p> <p>- Network flows</p> <p>- Hardening and configuration changes</p> <ul style="list-style-type: none"> <li>• Disabling unnecessary ports and services</li> <li>• Disabling weak protocols and ciphers</li> <li>• Firmware upgrades</li> <li>• Control ingress and egress traffic               <ol style="list-style-type: none"> <li>1. Allow list (previously known as whitelisting) or blocklist (previously known as blacklisting)</li> <li>2. Proxy servers</li> </ol> </li> <li>• Distributed denial of service (DDoS) protection</li> </ul>
<p>Given a scenario, apply the appropriate OS and application security controls.</p>	<p>- Policies</p> <ul style="list-style-type: none"> <li>• Password complexity</li> <li>• Account lockout</li> <li>• Application approved list (previously known as whitelisting)</li> <li>• Software feature</li> <li>• User/group</li> </ul> <p>- User permissions</p> <p>- Antivirus/anti-malware/endpoint detection and response (EDR)</p> <p>- Host-based IDS (HIDS)/Host-based IPS (HIPS)</p> <p>- Hardened baselines</p> <ul style="list-style-type: none"> <li>• Single function</li> </ul> <p>- File integrity</p> <p>- Log and event monitoring</p> <p>- Configuration management</p> <p>- Builds</p> <ul style="list-style-type: none"> <li>• Stable</li> <li>• Long-term support (LTS)</li> <li>• Beta</li> <li>• Canary</li> </ul>



Topic	Details
	<ul style="list-style-type: none"> <li>- Operating system (OS) upgrades</li> <li>- Encryption               <ul style="list-style-type: none"> <li>• Application programming interface (API) endpoint</li> <li>• Application</li> <li>• OS</li> <li>• Storage</li> <li>• Filesystem</li> </ul> </li> <li>- Mandatory access control</li> <li>- Software firewall</li> </ul>
<p>Given a scenario, apply data security and compliance controls in cloud environments.</p>	<ul style="list-style-type: none"> <li>- Encryption</li> <li>- Integrity               <ul style="list-style-type: none"> <li>• Hashing algorithms</li> <li>• Digital signatures</li> <li>• File integrity monitoring (FIM)</li> </ul> </li> <li>- Classification</li> <li>- Segmentation</li> <li>- Access control</li> <li>- Impact of laws and regulations               <ul style="list-style-type: none"> <li>• Legal hold</li> </ul> </li> <li>- Records management               <ul style="list-style-type: none"> <li>• Versioning</li> <li>• Retention</li> <li>• Destruction</li> <li>• Write once read many</li> </ul> </li> <li>- Data loss prevention (DLP)</li> <li>- Cloud access security broker (CASB)</li> </ul>
<p>Given a scenario, implement measures to meet security requirements.</p>	<ul style="list-style-type: none"> <li>- Tools               <ul style="list-style-type: none"> <li>• Vulnerability scanners</li> <li>• Port scanners</li> </ul> </li> <li>- Vulnerability assessment               <ul style="list-style-type: none"> <li>• Default and common credential scans</li> <li>• Credentialed scans</li> <li>• Network-based scans</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Agent-based scans</li> <li>• Service availabilities</li> </ul> <p>- Security patches</p> <ul style="list-style-type: none"> <li>• Hot fixes</li> <li>• Scheduled updates</li> <li>• Virtual patches</li> <li>• Signature updates</li> <li>• Rollups</li> </ul> <p>- Risk register</p> <p>- Prioritization of patch application</p> <p>- Deactivate default accounts</p> <p>- Impacts of security tools on systems and services</p> <p>- Effects of cloud service models on security implementation</p>
<p>Explain the importance of incident response procedures.</p>	<p>- Preparation</p> <ul style="list-style-type: none"> <li>• Documentation</li> <li>• Call trees</li> <li>• Training</li> <li>• Tabletops</li> <li>• Documented incident types/categories</li> <li>• Roles and responsibilities</li> </ul> <p>- Incident response procedures</p> <ul style="list-style-type: none"> <li>• Identification               <ol style="list-style-type: none"> <li>1. Scope</li> </ol> </li> <li>• Investigation</li> <li>• Containment, eradication, and recovery               <ol style="list-style-type: none"> <li>1. Isolation</li> <li>2. Evidence acquisition</li> <li>3. Chain of custody</li> <li>4. Root cause analysis</li> </ol> </li> <li>• Post-incident and lessons learned</li> </ul>
<p><b>Deployment - 23%</b></p>	
<p>Given a scenario, integrate components into a cloud solution.</p>	<p>- Subscription services</p> <ul style="list-style-type: none"> <li>• File subscriptions</li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Communications               <ol style="list-style-type: none"> <li>1. Email</li> <li>2. Voice over IP (VoIP)</li> <li>3. Messaging</li> </ol> </li> <li>• Collaboration</li> <li>• Virtual desktop infrastructure (VDI)</li> <li>• Directory and identity services</li> <li>• Cloud resources               <ol style="list-style-type: none"> <li>1. IaaS</li> <li>2. PaaS</li> <li>3. SaaS</li> </ol> </li> <li>- Provisioning resources               <ul style="list-style-type: none"> <li>• Compute</li> <li>• Storage</li> <li>• Network</li> </ul> </li> <li>- Application               <ul style="list-style-type: none"> <li>• Serverless</li> </ul> </li> <li>- Deploying virtual machines (VMs) and custom images</li> <li>- Templates               <ul style="list-style-type: none"> <li>• OS templates</li> <li>• Solution templates</li> </ul> </li> <li>- Identity management</li> <li>- Containers               <ul style="list-style-type: none"> <li>• Configure variables</li> <li>• Configure secrets</li> <li>• Persistent storage</li> </ul> </li> <li>- Auto-scaling</li> <li>- Post-deployment validation</li> </ul>
<p>Given a scenario, provision storage in cloud environments.</p>	<ul style="list-style-type: none"> <li>- Types               <ul style="list-style-type: none"> <li>• Block                   <ol style="list-style-type: none"> <li>1. Storage area network (SAN)                       <ul style="list-style-type: none"> <li>- Zoning</li> </ul> </li> </ol> </li> <li>• File                   <ol style="list-style-type: none"> <li>1. Network attached storage (NAS)</li> </ol> </li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Object               <ol style="list-style-type: none"> <li>1. Tenants</li> <li>2. Buckets</li> </ol> </li> <li>- Tiers               <ul style="list-style-type: none"> <li>• Flash</li> <li>• Hybrid</li> <li>• Spinning disks</li> <li>• Long-term</li> </ul> </li> <li>- Input/output operations per second (IOPS) and read/write</li> <li>- Protocols               <ul style="list-style-type: none"> <li>• Network file system (NFS)</li> <li>• Common Internet file system (CIFS)</li> <li>• Internet small computer system interface (iSCSI)</li> <li>• Fibre Channel (FC)</li> <li>• Non-volatile memory express over fabrics (NVMe-oF)</li> </ul> </li> <li>- Redundant array of inexpensive disks (RAID)               <ul style="list-style-type: none"> <li>• 0</li> <li>• 1</li> <li>• 5</li> <li>• 6</li> <li>• 10</li> </ul> </li> <li>- Storage system features               <ul style="list-style-type: none"> <li>• Compression</li> <li>• Deduplication</li> <li>• Thin provisioning</li> <li>• Thick provisioning</li> <li>• Replication</li> </ul> </li> <li>- User quotas</li> <li>- Hyperconverged</li> <li>- Software-defined storage (SDS)</li> </ul>
<p>Given a scenario, deploy cloud networking solutions.</p>	<ul style="list-style-type: none"> <li>- Services               <ul style="list-style-type: none"> <li>• Dynamic host configuration protocol (DHCP)</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• NTP</li> <li>• DNS</li> <li>• Content delivery network (CDN)</li> <li>• IP address management (IPAM)</li> </ul> <p>- Virtual private networks (VPNs)</p> <ul style="list-style-type: none"> <li>• Site-to-site</li> <li>• Point-to-point</li> <li>• Point-to-site</li> <li>• IPSec</li> <li>• Multiprotocol label switching (MPLS)</li> </ul> <p>- Virtual routing</p> <ul style="list-style-type: none"> <li>• Dynamic and static routing</li> <li>• Virtual network interface controller (vNIC)</li> <li>• Subnetting</li> </ul> <p>- Network appliances</p> <ul style="list-style-type: none"> <li>• Load balancers</li> <li>• Firewalls</li> </ul> <p>- Virtual private cloud (VPC)</p> <ul style="list-style-type: none"> <li>• Hub and spoke</li> <li>• Peering</li> </ul> <p>- VLAN/VXLAN/GENEVE</p> <p>- Single root input/output virtualization (SR-IOV)</p> <p>- Software-defined network (SDN)</p>
<p>Given a scenario, configure the appropriate compute sizing for a deployment.</p>	<p>- Virtualization</p> <ul style="list-style-type: none"> <li>• Hypervisors               <ol style="list-style-type: none"> <li>1. Type 1</li> <li>2. Type 2</li> </ol> </li> <li>• Simultaneous multi-threading (SMT)</li> <li>• Dynamic allocations</li> <li>• Oversubscription</li> </ul> <p>- Central processing unit (CPU)/virtual CPU (vCPU)</p> <p>- Graphics processing unit (GPU)</p>

Topic	Details
	<ul style="list-style-type: none"> <li>• Virtual               <ol style="list-style-type: none"> <li>1. Shared</li> </ol> </li> <li>• Pass-through</li> </ul> - Clock speed/Instructions per cycle (IPC) - Hyperconverged - Memory <ul style="list-style-type: none"> <li>• Dynamic allocation</li> <li>• Ballooning</li> </ul>
Given a scenario, perform cloud migrations.	- Physical to virtual (P2V) - Virtual to virtual (V2V) - Cloud-to-cloud migrations <ul style="list-style-type: none"> <li>• Vendor lock-in</li> <li>• PaaS or SaaS migrations               <ol style="list-style-type: none"> <li>1. Access control lists (ACLs)</li> <li>2. Firewalls</li> </ol> </li> </ul> - Storage migrations <ul style="list-style-type: none"> <li>• Block</li> <li>• File</li> <li>• Object</li> </ul> - Database migrations <ul style="list-style-type: none"> <li>• Cross-service migrations</li> <li>• Relational</li> <li>• Non-relational</li> </ul>
<p><b>Operations and Support - 22%</b></p>	
Given a scenario, configure logging, monitoring, and alerting to maintain operational status.	- Logging <ul style="list-style-type: none"> <li>• Collectors               <ol style="list-style-type: none"> <li>1. Simple network management protocol (SNMP)</li> <li>2. Syslog</li> </ol> </li> <li>• Analysis</li> <li>• Severity categorization</li> <li>• Audits</li> <li>• Types               <ol style="list-style-type: none"> <li>1. Access/authentication</li> </ol> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>2. System</li> <li>3. Application</li> <li>• Automation</li> <li>• Trending</li> <li>- Monitoring               <ul style="list-style-type: none"> <li>• Baselines</li> <li>• Thresholds</li> <li>• Tagging</li> <li>• Log scrubbing</li> <li>• Performance monitoring                   <ul style="list-style-type: none"> <li>1. Application</li> <li>2. Infrastructure components</li> </ul> </li> <li>• Resource utilization</li> <li>• Availability                   <ul style="list-style-type: none"> <li>1. SLA-defined uptime requirements</li> </ul> </li> <li>• Verification of continuous monitoring activities</li> <li>• Service management tool integration</li> </ul> </li> <li>- Alerting               <ul style="list-style-type: none"> <li>• Common messaging methods</li> <li>• Enable/disable alerts                   <ul style="list-style-type: none"> <li>1. Maintenance mode</li> </ul> </li> <li>• Appropriate responses</li> <li>• Policies for categorizing and communicating alerts</li> </ul> </li> </ul>
<p>Given a scenario, maintain efficient operation of a cloud environment.</p>	<ul style="list-style-type: none"> <li>- Confirm completion of backups</li> <li>- Life-cycle management               <ul style="list-style-type: none"> <li>• Roadmaps</li> <li>• Old/current/new versions</li> <li>• Upgrading and migrating systems</li> <li>• Deprecations or end of life</li> </ul> </li> <li>- Change management</li> <li>- Asset management               <ul style="list-style-type: none"> <li>• Configuration management database (CMDB)</li> </ul> </li> <li>- Patching               <ul style="list-style-type: none"> <li>• Features or enhancements</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Fixes for broken or critical infrastructure or applications</li> <li>• Scope of cloud elements to be patched               <ol style="list-style-type: none"> <li>1. Hypervisors</li> <li>2. VMs</li> <li>3. Virtual appliances</li> <li>4. Networking components</li> <li>5. Applications</li> <li>6. Storage components</li> <li>7. Firmware</li> <li>8. Software</li> <li>9. OS</li> </ol> </li> <li>• Policies               <ol style="list-style-type: none"> <li>1. n-1</li> </ol> </li> <li>• Rollbacks</li> </ul> <p>- Impacts of process improvements on systems</p> <p>- Upgrade methods</p> <ul style="list-style-type: none"> <li>• Rolling upgrades</li> <li>• Blue-green</li> <li>• Canary</li> <li>• Active-passive</li> <li>• Development/QA/production/DR</li> </ul> <p>- Dashboard and reporting</p> <ul style="list-style-type: none"> <li>• Tagging</li> <li>• Costs               <ol style="list-style-type: none"> <li>1. Chargebacks</li> <li>2. Showbacks</li> </ol> </li> <li>• Elasticity usage</li> <li>• Connectivity</li> <li>• Latency</li> <li>• Capacity</li> <li>• Incidents</li> <li>• Health</li> <li>• Overall utilization</li> <li>• Availability</li> </ul>
<p>Given a scenario, optimize cloud environments.</p>	<p>- Right-sizing</p> <ul style="list-style-type: none"> <li>• Auto-scaling</li> <li>• Horizontal scaling</li> </ul>



Topic	Details
	<ul style="list-style-type: none"> <li>• Vertical scaling</li> <li>• Cloud bursting</li> <li>- Compute               <ul style="list-style-type: none"> <li>• CPUs</li> <li>• GPUs</li> <li>• Memory</li> <li>• Containers</li> </ul> </li> <li>- Storage               <ul style="list-style-type: none"> <li>• Tiers                   <ol style="list-style-type: none"> <li>1. Adaptive optimization</li> </ol> </li> <li>• IOPS</li> <li>• Capacity</li> <li>• Deduplication</li> <li>• Compression</li> </ul> </li> <li>- Network               <ul style="list-style-type: none"> <li>• Bandwidth</li> <li>• Network interface controllers (NICs)</li> <li>• Latency</li> <li>• SDN</li> <li>• Edge computing                   <ol style="list-style-type: none"> <li>1. CDN</li> </ol> </li> </ul> </li> <li>- Placement               <ul style="list-style-type: none"> <li>• Geographical</li> <li>• Cluster placement</li> <li>• Redundancy</li> <li>• Colocation</li> </ul> </li> <li>- Device drivers and firmware               <ul style="list-style-type: none"> <li>• Generic</li> <li>• Vendor</li> <li>• Open source</li> </ul> </li> </ul>
<p>Given a scenario, apply proper automation and orchestration techniques.</p>	<ul style="list-style-type: none"> <li>- Infrastructure as code               <ul style="list-style-type: none"> <li>• Infrastructure components and their integration</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Continuous integration/continuous deployment (CI/CD)</li> <li>- Version control</li> <li>- Configuration management               <ul style="list-style-type: none"> <li>• Playbook</li> </ul> </li> <li>- Containers</li> <li>- Automation activities               <ul style="list-style-type: none"> <li>• Routine operations</li> <li>• Updates</li> <li>• Scaling</li> <li>• Shutdowns</li> <li>• Restarts</li> <li>• Create internal APIs</li> </ul> </li> <li>- Secure scripting               <ul style="list-style-type: none"> <li>• No hardcoded passwords</li> <li>• Use of individual service accounts</li> <li>• Password vaults</li> <li>• Key-based authentication</li> </ul> </li> <li>- Orchestration sequencing</li> </ul>
<p>Given a scenario, perform appropriate backup and restore operations.</p>	<ul style="list-style-type: none"> <li>- Backup types               <ul style="list-style-type: none"> <li>• Incremental</li> <li>• Differential</li> <li>• Full</li> <li>• Synthetic full</li> <li>• Snapshot</li> </ul> </li> <li>- Backup objects               <ul style="list-style-type: none"> <li>• Application-level backup</li> <li>• Filesystem backup</li> <li>• Database dumps</li> <li>• Configuration files</li> </ul> </li> <li>- Backup targets               <ul style="list-style-type: none"> <li>• Tape</li> <li>• Disk</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Object</li> <li>- Backup and restore policies               <ul style="list-style-type: none"> <li>• Retention</li> <li>• Schedules</li> <li>• Location</li> <li>• SLAs</li> <li>• Recovery time objective (RTO)</li> <li>• Recovery point objective (RPO)</li> <li>• Mean time to recovery (MTTR)</li> <li>• 3-2-1 rule                   <ol style="list-style-type: none"> <li>1. Three copies of data</li> <li>2. Two different media</li> <li>3. One copy off site</li> </ol> </li> </ul> </li> <li>- Restoration methods               <ul style="list-style-type: none"> <li>• In place</li> <li>• Alternate location</li> <li>• Restore files</li> <li>• Snapshot</li> </ul> </li> </ul>
<p>Given a scenario, perform disaster recovery tasks.</p>	<ul style="list-style-type: none"> <li>- Failovers</li> <li>- Failback</li> <li>- Restore backups</li> <li>- Replication</li> <li>- Network configurations</li> <li>- On-premises and cloud sites               <ul style="list-style-type: none"> <li>• Hot</li> <li>• Warm</li> <li>• Cold</li> </ul> </li> <li>- Requirements               <ul style="list-style-type: none"> <li>• RPO</li> <li>• RTO</li> <li>• SLA</li> <li>• Corporate guidelines</li> </ul> </li> <li>- Documentation               <ul style="list-style-type: none"> <li>• DR kit</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Playbook</li> <li>• Network diagram</li> </ul> <p>- Geographical datacenter requirements</p>
<p><b>Troubleshooting - 22%</b></p>	
<p>Given a scenario, use the troubleshooting methodology to resolve cloud-related issues.</p>	<p>- Always consider corporate policies, procedures, and impacts before implementing changes.</p> <ol style="list-style-type: none"> <li>1. Identify the problem               <ul style="list-style-type: none"> <li>- Question the user and identify user changes to the computer and perform backups before making changes</li> <li>- Inquire regarding environmental or infrastructure changes</li> </ul> </li> <li>2. Establish a theory of probable cause (question the obvious)               <ul style="list-style-type: none"> <li>- If necessary, conduct external or internal research based on symptoms</li> </ul> </li> <li>3. Test the theory to determine cause               <ul style="list-style-type: none"> <li>- Once the theory is confirmed, determine the next steps to resolve the problem</li> <li>- If the theory is not confirmed, re-establish a new theory or escalate</li> </ul> </li> <li>4. Establish a plan of action to resolve the problem and implement the solution</li> <li>5. Verify full system functionality and, if applicable, implement preventive measures</li> <li>6. Document the findings, actions, and outcomes throughout the process.</li> </ol>
<p>Given a scenario, troubleshoot security issues.</p>	<p>- Privilege</p> <ul style="list-style-type: none"> <li>• Missing</li> <li>• Incomplete</li> <li>• Escalation</li> <li>• Keys</li> </ul> <p>- Authentication - Authorization - Security groups</p> <ul style="list-style-type: none"> <li>• Network security groups</li> <li>• Directory security groups</li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>- Keys and certificates               <ul style="list-style-type: none"> <li>• Expired</li> <li>• Revoked</li> <li>• Trust</li> <li>• Compromised</li> <li>• Misconfigured</li> </ul> </li> <li>- Misconfigured or misapplied policies</li> <li>- Data security issues               <ul style="list-style-type: none"> <li>• Unencrypted data</li> <li>• Data breaches</li> <li>• Misclassification</li> <li>• Lack of encryption in protocols</li> <li>• Insecure ciphers</li> </ul> </li> <li>- Exposed endpoints</li> <li>- Misconfigured or failed security appliances               <ul style="list-style-type: none"> <li>• IPS</li> <li>• IDS</li> <li>• NAC</li> <li>• WAF</li> </ul> </li> <li>- Unsupported protocols</li> <li>- External/internal attacks</li> </ul>
<p>Given a scenario, troubleshoot deployment issues.</p>	<ul style="list-style-type: none"> <li>- Connectivity issues               <ul style="list-style-type: none"> <li>• Cloud service provider (CSP) or Internet service provider (ISP) outages</li> </ul> </li> <li>- Performance degradation               <ul style="list-style-type: none"> <li>• Latency</li> </ul> </li> <li>- Configurations               <ul style="list-style-type: none"> <li>• Scripts</li> </ul> </li> <li>- Applications in containers</li> <li>- Misconfigured templates</li> <li>- Missing or incorrect tags</li> <li>- Insufficient capacity</li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• Scaling configurations</li> <li>• Compute</li> <li>• Storage</li> <li>• Bandwidth issues</li> <li>• Oversubscription</li> <li>- Licensing issues</li> <li>- Vendor-related issues               <ul style="list-style-type: none"> <li>• Migrations of vendors or platforms</li> <li>• Integration of vendors or platforms</li> <li>• API request limits</li> <li>• Cost or billing issues</li> </ul> </li> </ul>
<p>Given a scenario, troubleshoot connectivity issues.</p>	<ul style="list-style-type: none"> <li>- Network security group misconfigurations           <ul style="list-style-type: none"> <li>• ACL</li> <li>• Inheritance</li> </ul> </li> <li>- Common networking configuration issues           <ul style="list-style-type: none"> <li>• Peering</li> <li>• Incorrect subnet</li> <li>• Incorrect IP address</li> <li>• Incorrect IP space</li> <li>• Routes               <ol style="list-style-type: none"> <li>1. Default</li> <li>2. Static</li> <li>3. Dynamic</li> </ol> </li> <li>• Firewall               <ol style="list-style-type: none"> <li>1. Incorrectly administered micro-segmentation</li> </ol> </li> <li>• Network address translation (NAT)               <ol style="list-style-type: none"> <li>1. VPN</li> <li>2. Source</li> <li>3. Destination</li> </ol> </li> <li>• Load balancers               <ol style="list-style-type: none"> <li>1. Methods</li> <li>2. Headers</li> <li>3. Protocols</li> <li>4. Encryption</li> <li>5. Back ends</li> <li>6. Front ends</li> </ol> </li> <li>• DNS records</li> </ul> </li> </ul>

Topic	Details
	<ul style="list-style-type: none"> <li>• VLAN/VXLAN/GENEVE</li> <li>• Proxy</li> <li>• Maximum transmission unit (MTU)</li> <li>• Quality of service (QoS)</li> <li>• Time synchronization issues</li> </ul> <p>- Network troubleshooting tools</p> <ul style="list-style-type: none"> <li>• ping</li> <li>• tracert/traceroute</li> <li>• flushdns</li> <li>• ipconfig/ifconfig/ip</li> <li>• nslookup/dig</li> <li>• netstat/ss</li> <li>• route</li> <li>• arp</li> <li>• curl</li> <li>• Packet capture</li> <li>• Packet analyzer</li> <li>• OpenSSL client</li> </ul>
<p>Given a scenario, troubleshoot common performance issues.</p>	<p>- Resource utilization</p> <ul style="list-style-type: none"> <li>• CPU</li> <li>• GPU</li> <li>• Memory</li> <li>• Storage               <ol style="list-style-type: none"> <li>1. I/O</li> <li>2. Capacity</li> </ol> </li> <li>• Network bandwidth</li> <li>• Network latency</li> <li>• Replication</li> <li>• Scaling</li> </ul> <p>- Application</p> <ul style="list-style-type: none"> <li>• Memory management</li> <li>• Service overload</li> </ul> <p>- Incorrectly configured or failed load balancing</p>

Topic	Details
<p>Given a scenario, troubleshoot automation or orchestration issues.</p>	<ul style="list-style-type: none"> <li>- Account mismatches</li> <li>- Change management failures</li> <li>- Server name changes</li> <li>- IP address changes</li> <li>- Location changes</li> <li>- Version/feature mismatch</li> <li>- Automation tool incompatibility                             <ul style="list-style-type: none"> <li>• Deprecated features</li> <li>• API version incompatibility</li> </ul> </li> <li>- Job validation issue</li> <li>- Patching failure</li> </ul>

## CompTIA CV0-003 Sample Questions:

### Question: 1

Which of the following high availability solutions would a cloud service provider use when deploying Software as a Service?

- a) Virtual switches
- b) Multipathing
- c) Load balancing
- d) Clustering servers

**Answer: d**

### Question: 2

Which of the following storage provisioning methods is implemented at the hardware level of a SAN and can be completed in either a soft or hard basis?

- a) LUN masking
- b) Network share creation
- c) Zoning
- d) Multipathing

**Answer: c**



**Question: 3**

Which of the following is the meaning of IaaS?

- a) IT as a Service
- b) Information as a Service
- c) Infrastructure as a Service
- d) Identity as a Service

**Answer: c**

**Question: 4**

Which of the following should an administrator use when marking VLAN traffic?

- a) Virtual Local Area Network tagging
- b) Network Address Translation
- c) Subnetting
- d) Port Address Translation

**Answer: a**

**Question: 5**

Which of the following commands provides measurements of round-trip network latency?

- a) ping
- b) route
- c) arp
- d) nslookup

**Answer: a**

**Question: 6**

Which of the following methods can an Administrator use to force an array to allow data to be distributed one node at a time in a private cloud implementation?

- a) Least connections
- b) Least used
- c) Best bandwidth
- d) Round robin

**Answer: d**

**Question: 7**

Which of the following allows authentication based on something you are?

(Select TWO)

- a) Passwords
- b) Access badge
- c) Retina scan
- d) Key fobs
- e) Voice recognition
- f) PIN

**Answer: c, e**

**Question: 8**

A community name is used by:

- a) WMI
- b) SMTP
- c) SNMP
- d) SMS

**Answer: c**

**Question: 9**

Which of the following will allow an administrator to quickly revert a VM back to a previous state?

- a) Metadata
- b) Snapshots
- c) Extended metadata
- d) Cloning

**Answer: b**

**Question: 10**

Which of the following is the meaning of SaaS?

- a) Solutions as a Service
- b) Software as a Service
- c) Servers as a Service
- d) Security as a Service

**Answer: b**

## Study Guide to Crack CompTIA Cloud+ CV0-003 Exam:

- Getting details of the CV0-003 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 CV0-003 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 CV0-003 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 CV0-003 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.
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