

CompTIA Cloud+

Online Course



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1. CompTIA Cloud+ CV0-003 Course Overview

- What is the Cloud + Exam
- CompTIA Certification Pathways
- DoD and ISO Requirements

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Course Modules

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1. General Cloud Knowledge

- Compare and Contrast Cloud Models
- Cloud Computing Defined
- Deployment Models
- Service Models
- Cloud Characteristics
- Cloud Roles
- Evaluate Cloud Providers and Services
- Regions and Zones
- Shared Responsibility Model
- Demonstration - AWS Shared Security Model
- Comparing Cloud to Virtualization
- Comparing Cloud to On Premises
- What is a Virtual Machine
- Demonstration - Deploy a Cloud VM (AWS EC2)
- What is an API
- Capacity Planning Factors
- Licensing, Factors, Requirements and Planning
- Capacity Planning
- Demonstration - AWS Trusted Advisor
- HA and Scaling
- High Availability and Disaster Recovery
- Virtual, System and Communication Protection
- Hypervisor Affinity
- Analyse the solution design



2. Cloud Security

- Configure Identity and Access Management
- Identification and Authorization Management (IAM)
- SDLC
- Directory Services
- Security and Access Controls
- Federation
- SSO and MFA
- Certificates and Key Management
- Secure a Network in a Cloud Environment
- Networking Devices and Segmentation
- Firewalls and Proxies
- NAT and PAT
- Secure Network Configurations (Tunnelling and Encryption)
- Demo Hardening and Configuration Changes
- OS Application Controls and Security Credentials
- Policies and Permissions
- Host and Network Protections (HIDSIPS)
- Virtualization Security
- Monitoring
- Data Security and Compliance Controls in Cloud Environments
- Structured, Unstructured and Semi Structured Data
- Data Classification and Labelling
- Data Loss Prevention
- Demonstration - Google Cloud DLP
- Chain of Custody and Non-Repudiation
- Discussion – CASB

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3. Cloud Deployment

- Integrate Components into Cloud Solutions
- Subscription Services
- Demonstration - Provision VM
- Cloud Infrastructure Components
- Whiteboard - Design a Resilient AWS Cloud Architecture
- Containers
- Microservices
- Demonstration - Deploy Containers
- Scaling
- Provision Storage
- Cloud Storage Protocols
- Storage Features
- Storage Cost Considerations
- Storage Performance
- RAID and Tiering
- Demonstration - AWS S3
- Deploy Cloud Networking Solutions
- Connecting to The Cloud
- Network Protocols
- VPNS, VPC and Connectivity
- Whiteboard - AWS VPC Connectivity
- Demonstration - AWS VPC
- Software Defined Networking (SDN)
- Compute Sizing
- Virtualization Considerations
- Resource Rightsizing (CPU, Memory, etc)

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5. Operations and Support

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- Logging Monitoring and Alerting
- Logging, Storage and Analysis of Data Events
- Monitoring Cloud Resources
- Service Level Agreements
- Demonstration - SLAs in AWS
- Maintain Efficient Operations of a Cloud Environment
- Lifecycle Management
- Change and Asset Management
- SOP, Patching and Upgrades
- Orchestration and Automation
- Orchestration or Automation
- DevOps, IaC and CICD Pipelines
- Playbooks and Templates
- Backup and Restore Operations
- Backup Types, Objects, Targets
- Restore and Recovery

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6. Troubleshooting

- Troubleshooting Methodology Intro
- Troubleshooting Methodology
- Troubleshoot Security Issues
- Cloud Attacks
- Security Groups and NACLs
- Troubleshoot Deployment Issues
- Discussion Site Connectivity Issues
- Discussion - Capacity Issues





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in terms of time management,
flexibility, and the ability
to access resources anytime,
anywhere can be compelling.



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