CompTIA Cloud+ Certification Prep Course

Varighed: 5 Days **Kursus Kode: GK7271** **Version: CV0-004**

Beskrivelse:

CompTIA Cloud+ validates the expertise needed to maintain and optimize cloud infrastructure services.
This CompTIA Cloud+ Certification Prep course is designed to help IT professionals build the skills they need to confidently work in cloud environments. Whether you're supporting a public, private, or hybrid cloud infrastructure, this course offers a practical, vendor-neutral approach to cloud computing. You'll learn how to design and deploy cloud solutions, manage day-to-day operations, and keep systems secure and resilient.
Throughout the course, you'll explore real-world scenarios and hands-on labs that mirror the challenges faced by cloud administrators and engineers. Topics include cloud architecture, resource management, automation, security, and troubleshooting. You'll also get familiar with DevOps tools and practices that are essential for modern cloud operations.
By the end of the course, you'll be well-prepared to take the CompTIA Cloud+ (CV0-004) certification exam and take the next step in your cloud career. This course is ideal for IT professionals with a few years of experience in networking or system administration who are ready to expand their expertise in cloud technologies.

Målgruppe:

This course is ideal for IT professionals with 2–3 years of experience in system administration or networking who are looking to validate their cloud expertise and expand their career opportunities in the growing field of cloud computing.
- System Administrators
- Systems Engineers
- Network Administrators
- Network Engineers
- Cloud Developers
- Cloud Specialists
- Project Managers, Cloud Computing Services
- Cloud Engineers
- Managers, Data Center SAN
- Business Analysts, Cloud Computing

Agenda:

- Understand Cloud Architecture and Design Concepts
- Analyze cloud service and deployment models (IaaS, PaaS, SaaS, FaaS)
- Evaluate cloud networking, storage, and virtualization technologies
- Optimize cloud resources for performance and cost efficiency
- Deploy and Configure Cloud Resources
- Implement infrastructure as code (IaC) and configuration as code (CaC)
- Plan and execute workload migrations across cloud environments
- Provision cloud resources based on performance, security, and compliance requirements
- Manage Cloud Operations
- Monitor cloud environments using observability tools and metrics
- Configure scaling strategies and backup/recovery solutions
- Implement Cloud Security Measures
- Apply vulnerability management and compliance standards (e.g., PCI DSS, ISO 27001)
- Configure identity and access management (IAM) and secure cloud access
- Deploy security controls such as firewalls, DLP, and endpoint protection
- Apply DevOps Fundamentals
- Use source control and CI/CD pipelines for cloud automation
- Integrate systems and utilize DevOps tools like Kubernetes, Jenkins, and Ansible
- Explore event-driven architectures and automation strategies
- Troubleshoot Cloud Environments
- Diagnose and resolve deployment, network, and security issues
- Identify and fix misconfigurations and service disruptions

- Manage the lifecycle of cloud resources including updates and decommissioning
- Address common attack vectors and monitor for suspicious activity

Forudsætninger:

- Students should have familiarity with any major hypervisor technologies for server virtualization, as well as basic knowledge of common cloud service models and common cloud deployment models.

Test og certificering

- CompTIA Cloud+ Certification

Indhold:

1: Understanding Cloud Architecture Concepts

- Recognize Cloud Concepts and Service Models
- Recognize Cloud Terms
- Technologies in the Cloud
- Troubleshoot the Cloud Environment

2: Planning Cloud Services

- Cloud-native Design
- Cloud Deployment Models
- Cloud Deployment Strategies

3: Provisioning and Migrating Cloud Resources

- Provision Cloud Resources
- Aspects of Cloud Migration
- Cloud Migration Considerations

4: Comparing Cloud Storage

- Storage Resources and Technologies
- Troubleshooting Deployment Issues and Cost
- Troubleshoot Deployment and Migration Issues
- Cost Considerations Related to Cloud Usage

6: Using Virtualization and Databases

- Virtualization Concepts
- Containerization Concepts
- Database Concepts

7: Comprehending Cloud Networking

- Cloud Networking Concepts
- Network Functions
- Network Components
- Network Services
- Cloud Network Services
- Troubleshoot Network Issues

8: Automating Cloud Resources

- Deploy and Configure Cloud Resources Using Code
- Continuous Integration Continuous Deployment Pipelines
- Tools Used in DevOps Environments
- Source Control Concepts
- Scripting
- Integration of Systems

9: Implementing Security Management

- Identity and Access Management Concepts
- Security Controls in the Cloud
- Vulnerability Management Concepts
- Monitoring Suspicious Activities to Identify Common Attacks

10: Comprehending Security Compliance and Troubleshooting

- Aspects of Compliance and Regulation
- Security Best Practices
- Troubleshooting Security Issues

11: Implementing Performance and Monitoring

- Optimize Workloads Using Cloud Resources
- Configure Appropriate Scaling Approaches
- Configure Resources to Achieve Observability
- Managing the Life Cycle of Cloud Resources

12: Managing Disaster Recovery and Business Continuity

- Backup and Recovery Methods
- Service Availability Concepts

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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