Cloud Administrator

Class Code: CT-PCA01

The interaction between a cloud environment and the existing network/administrative policies is one of the most challenging management issues to resolve. This is the domain of cloud administrators. They configure and maintain the cloud platform, and they have to understand and master all aspects regarding cloud provisioning.

This course provides network, systems, and database administrators the knowledge and skills needed to effectively operate in the cloud and touches upon all the aspects of administering cloud services. This training program provides a practical approach to cloud provisioning for administrators and touches upon all the aspects of administering cloud services. The training covers best practices on cloud administration, supported by many vendor technology solutions, covering open source and major vendor standards. This is a professional-level course and relevant to professionals with at least two years of experience as an administrator. The course prepares you for the Professional Cloud Administrator (PCA) certification.

What You'll Learn

- Cloud Provisioning and Administration
- Disaster Recovery and Business Continuity Strategies for Cloud
- Performance Measures, Monitoring, and Optimization in Production
- Cloud Security Fundamentals
- Federated Controls and Strategies for Multiple Cloud and Non-Cloud Administration
- Administration of Virtual Infrastructure Services
- Administration of Virtual Platform Services
- Administration of Virtual Software Services

Who Needs to Attend

- Network administrator
- Systems administrator
- Database administrator
- Service desk managers
- Senior operators

Prerequisites:
There are no formal prerequisites. However, it is recommended that participants hold the Cloud Technology Associate Certification (or its equivalent) from the Cloud Credential Council and/or that participants are conversant with cloud concepts and vocabulary.

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Class Outline

1. **Cloud Provisioning and Administration**
   - Workload analysis concepts and features and their impact on choice of cloud service
   - Capacity planning in light of a given scenario
   - Administration issues of migration to the cloud
2. **Cloud Bursting**
   - Application of key cloud bursting concepts
   - Configuration strategies to anticipate elasticity demands
3. **Cloud Interoperability**
   - Interoperability and portability strategies with appropriate administrative action
   - Tenant-aware, error-tracking options in a given scenario
4. **Strategic Policy Design For Cloud Usage and Compliance**
   - Capacity management issues in a given scenario
   - Differences and relative pros and cons of the various SLA, QoS and OLA for cloud environments
5. **Disaster Recovery and Business Continuity Strategies for Cloud**
   - Administrative elements of a failover strategy in a XaaS case study
   - Key administrative actions to maintain the achievement of environment objectives
6. **Performance Measures, Monitoring and Optimization in Production**
   - Key metrics that pertain to cloud and non-cloud environments and their service performance
   - SLA compliance and gaps in service performance
   - Improvements from the consumer and provider perspectives and the implications on cloud monitoring and forensics auditing for cloud services

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