CLOUD COMPUTING TECHNOLOGIES INTRODUCTION

Course number : 141

Overview

Cloud computing potentially affects every aspect of an organization's IT department. In this training course, you will evaluate and assess the business and technical benefits of cloud computing, gain the foundation to analyze cloud applications for use in your organization, and learn how cloud computing can provide efficient solutions to technical, business, and administrative challenges.

RECOMMENDED EXPERIENCE:

- Working knowledge of Internet technologies, Microsoft Windows and Web applications Programming experience
- A background with cloud computing is not required

Course Preparation:

- This course helps you prepare for the CompTIA Cloud Essentials Cloud Computing Certification Exam
- The course has been reviewed and approved as CompTIA Authorized Quality Curriculum (CAQC)

Software/Applications:

- AWS and Google Applications are provided for your use during the course

Certification Information:

- This is a CompTIA certification prep course. **Click here to view more CompTIA certification prep training**

What you'll learn

- Exploit the benefits of the different cloud service models: SaaS, PaaS, and IaaS
- Leverage services provided by the major public cloud providers
- Configure and provision resources on a private IaaS cloud
- Apply tips and best practices when adopting the cloud

Who should attend

Pre-requis

Outline

Introduction to Cloud Computing

Defining cloud computing

- Components of a computing cloud
- Differentiating types of clouds: public, private, hybrid

Delivering services from the cloud

- Categorising service types
- Comparing vendor cloud products: Amazon, Google, Microsoft and others

Adopting the Cloud

Key drivers of cloud computing solutions

- Instantaneous provisioning of computing resources
- Tapping into an infinite storage capacity
- Cost-effective pay-as-you-use billing models

Evaluating barriers to cloud computing

- Handling sensitive data
- Aspects of cloud security
- Assessing governance solutions

Exploiting Software as a Service (SaaS)

Characterising SaaS

- Streamlining administration with centralised installation
- Optimising cost and performance with scale on demand

Comparing service scenarios

- Improving collaboration with business productivity tools

- Simplifying business process creation by integrating existing components

Inspecting SaaS technologies

- Deploying web applications
- Implementing web services: SOAP, REST
- Choosing a development platform

Delivering Platform as a Service (PaaS)

Exploring the technical foundation for PaaS

- Specifying the components of PaaS
- Analysing vendor PaaS provisions
- Selecting an appropriate implementation

Building services with solution stacks

- Evaluating the architecture of vendor-specific platforms
- Becoming familiar with service platform tools

Managing cloud storage

- Controlling unstructured data in the cloud
- Deploying relational databases in the cloud
- Improving data availability

Employing support services

- Testing in the cloud
- Monitoring cloud-based services
- Analysing portability across platforms

Deploying Infrastructure as a Service (IaaS)

Enabling technologies

- Scalable server clusters
- Achieving transparency with platform virtualisation
- Elastic storage devices

Accessing IaaS

- Provisioning servers on demand
- Handling dynamic and static IP addresses
- Tools and support for management and monitoring

Deploying a Private Cloud

- Leveraging an existing infrastructure
- Comparing OpenStack and Eucalyptus
- Managing resources across teams and departments
- Integrating with public clouds

Building a Business Case

Calculating the financial implications

- Comparing in-house facilities to the cloud
- Estimating economic factors downstream

Preserving business continuity

- Selecting appropriate service-level agreements
- Safeguarding access to assets in the cloud
- Security, availability and disaster recovery strategies

Migrating to the cloud

- Rearchitecting applications for the cloud
- Integrating the cloud with existing applications
- Selecting a vendor and avoiding vendor lock-in

Schedule

Location Dates Status

Tuition

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STANDARD   **$3895**

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FAQ

Certification