

Cloud Computing

Course Content



Introduction to Cloud Computing

- ✦ Defining cloud computing
- ✦ Components of a computing cloud
- ✦ Differentiating types of clouds: public, private, hybrid
- ✦ Delivering services from the cloud
- ✦ Categorizing 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
- ✦ Handling varied loads with elasticity and seamless scalability
- ✦ 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)

- ✦ Characterizing SaaS
- ✦ Minimizing the need for local hardware and software
- ✦ Streamlining administration with centralized installation and updates
- ✦ Optimizing cost and performance with the ability to 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
- ✦ Analyzing 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

- ✦ Leveraging the power of scalable middleware
- ✦ 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
- ✦ Analyzing portability across platforms
- ✦ **Deploying Infrastructure as a Service (IaaS)**
- ✦ Enabling technologies
- ✦ Scalable server clusters
- ✦ Achieving transparency with platform virtualization
- ✦ Elastic storage devices
- ✦ Accessing IaaS
- ✦ Provisioning servers on demand
- ✦ Handling dynamic and static IP addresses
- ✦ Tools and support for management and monitoring
- ✦ **Building a Business Case**
- ✦ Calculating the financial implications
- ✦ Analyzing current and future computing requirements
- ✦ 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**
- ✦ Technical considerations
- ✦ Rearchitecting applications for the cloud
- ✦ Integrating the cloud with existing applications
- ✦ Avoiding vendor lock-in
- ✦ Planning the migration
- ✦ Incremental vs
- ✦ one-step solution
- ✦ Selecting a vendor
- ✦ Establishing staff skill requirements



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