# Cloud Services Essentials
## Implementing Successful Cloud Services!

## COURSE BENEFITS

Cloud computing is the next big thing in how data centers and service providers architect and deliver reliable, scalable, secure and accessible services to their users in a cost effective manner. This new model of offering services provides early adopters the ability to quickly realize the benefits of improved business agility, faster time to market and an overall reduction in capital expense. However, with any new trend there are issues and challenges that enterprises and service providers need to ensure their Cloud Services address as well as elements their Cloud Services must contain in order to build a truly successful business model.

2010 was the year for hyping the cloud. 2011 is the year to implement the cloud. Service providers and enterprises must gain a better understanding of exactly what they need to build their cloud infrastructure. For both enterprises and service providers, the successful creation and deployment of cloud services will become the foundation for their IT operations for years to come making it essential to get it right from the start.

## COURSE FEATURES

### INTRODUCTION
What are Cloud Services and what are the business needs, benefits and advantages?

### MODELS & MARKET
What are the typical deployment, service and delivery models for Cloud Services?
And, who is currently providing Cloud Services and what are they providing?

### DELIVERY
What are Virtualization Services and how does this make Cloud Services affordable?
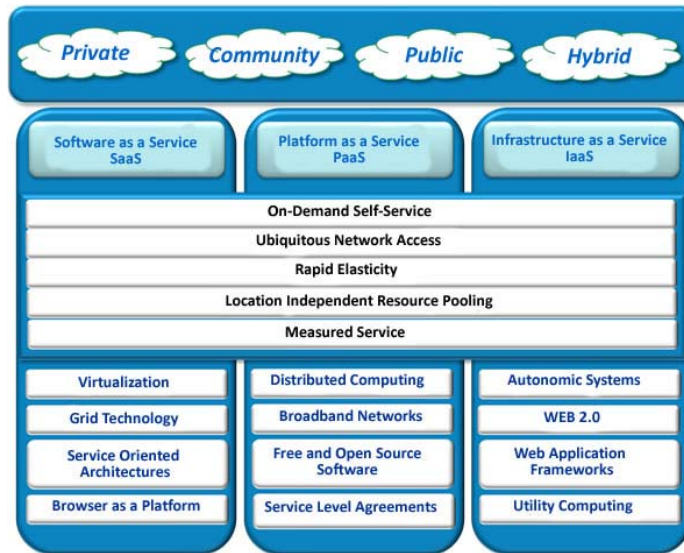
### ISSUES/CHALLENGES
What are the current major issues and challenges with Cloud Services?

### IMPLEMENTATION
How does one choose which Cloud Service is right for them?
And, how to make your Cloud Services successful by shielding the complexity from the Administrator, Developer and User.

### Cloud Services Essentials

Private | Community | Public | Hybrid

Software as a Service SaaS | Platform as a Service PaaS | Infrastructure as a Service IaaS

On-Demand Self-Service
Ubiquitous Network Access
Rapid Elasticity
Location Independent Resource Pooling
Measured Service

| Virtualization | Distributed Computing | Autonomic Systems |
| Grid Technology | Broadband Networks | WEB 2.0 |
| Service Oriented Architectures | Free and Open Source Software | Web Application Frameworks |
| Browser as a Platform | Service Level Agreements | Utility Computing |

## CLOUD SERVICES QUESTIONS WE ANSWER

**Introduction**
- What are Cloud Services?
- What are the business needs for Cloud Services?
- What are the business benefits and advantages of Cloud Services?

**Models, Characteristics, Elements & Market**
- What are the typical deployment models for Cloud Services?
- What are the typical Service Model s and Architectures for Cloud Services?
- What are the key features of each of the Cloud Services delivery models?
- What are the five essential characteristics of Cloud Services?
- What are the foundational elements or enablers of Cloud Services?
- Who is currently providing Cloud Services and what are they providing?

**Delivery**
- What are Virtualization Services?
- How does Virtualization make Cloud Services affordable?
- Where do Cloud Services reside?
- How does one access and connect to Cloud Services?
- What is the difference between Utility-Based Services and Cloud-Based Services?

**Issues/Challenges**
- What are the current major issues/challenges with Cloud Services?
- What are the current provisioning service issues/challenges?
- What are the pros and cons for balancing threat exposure and cost effectiveness?

**Implementation**
- How does one choose which Cloud Service is right for them?
- What are recommended migration paths from in-house to Cloud Services?
- What are the Seven Requirements for building your Cloud Infrastructure?
- What tools are required for efficient Cloud Services Management, Visibility and Reporting?
- What is the importance of making all data center components virtualized, not just compute and memory?
- Why must you design your Cloud Services to be redundant, diverse and resilient?
- Making your Cloud Services successful by shielding the complexity from the Administrator, Developer and User.

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