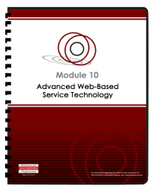
Module 10
Advanced Web-Based Service Technology

Cloud Computing

- **Cloud**
  - is a: distinct and remote IT environment designed for the purpose of remotely provisioning scalable and measured IT resources
  - is an alternative to: on-premise environment
- **Cloud Computing Mechanisms**
  - virtual server
  - ready-made environment
  - automated scaling listener
  - failover system
  - multi-device broker
  - pay-for-use monitor
  - state management database
  - resource replication
- **IT Resource**
  - can exist as: physical or virtual IT-related artifact
  - can be encapsulated by: cloud service
- **Cloud Characteristics**
  - on-demand usage
  - ubiquitous access
  - multitenancy
  - elasticity
  - measured usage
  - resiliency
- **Cloud Service**
  - IT resource remotely accessible via a cloud
- **Cloud Deployment Models**
  - public
  - community
  - private
  - hybrid
- **Cloud Service Consumer**
  - temporary runtime role of a software program when accessing a cloud service
- **Virtualization**
  - abstraction of physical IT resources into virtual resources
- **Cloud Delivery Models**
  - Infrastructure-as-a-Service (IaaS)
  - Platform-as-a-Service (PaaS)
  - Software-as-a-Service (SaaS)
- **Scaling**
  - horizontal
    - scale out
    - scale in
  - vertical
    - scale up
    - scale down
- **Cloud Consumer**
  - organization/person that uses a cloud
- **Cloud Provider**
  - organization that owns (provides) a cloud



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