Cloud Computing Characteristics

1. Common Characteristics

- a. Massive Scale & Scalability:
 - Infrastructure capacity allows for traffic spikes and minimizes delays.
- b. Resilient Computing
 - Downtime minimized in event of disaster due to mirrored solution
- c. Homogeneity
 - Even with different cloud providers, an open cloud make it easy for different organizations to work with each other.
- d. Geographic Distribution
- e. Virtualization
- f. Service Orientation
- g. Low Cost Software
- h. Advanced Security
- 2. 5 Essential Characteristics:
 - a. On-demand self-service

• Users can provision resources and use them without human interaction from the service provider

b. Broad network access

 Resources available over the network, and can be accessed by diverse client platforms

c. Resource pooling

- Multiple customers can share the same infrastructure and applications with security and privacy
- Location Independence: customer generally has no control or knowledge over the exact location of provided resources but may be able to specify location at a higher level of abstraction(e.g., country, state, or datacenter).

d. Rapid elasticity

• Automatically and quickly acquire and dispose resources when needed

- Quickly and easily scale based on demand
- To the consumer, the capabilities available for provisioning often appear to be unlimited and can be purchased in any quantity at any time.

e. Measured service
Usage is measured, users pay correctly for what they have used