CLOUD SERVICES

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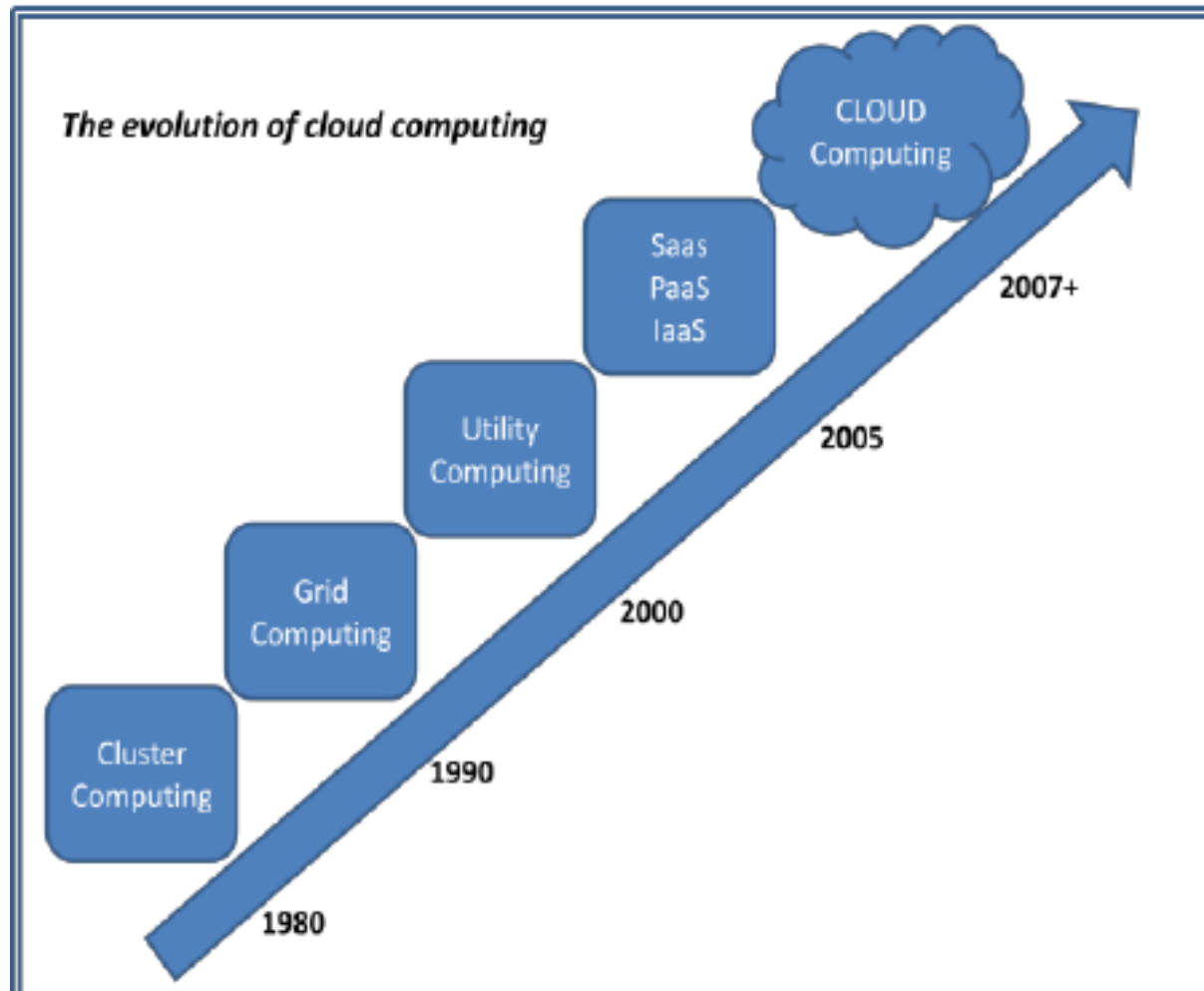# CLOUD SERVICES

Cloud Computing Essentials

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Evolution of Cloud Computing

The evolution of cloud computing

Definition

Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and released with minimal management effort or service provider interaction

-NIST

Computing Resource - Networks, servers, storage, applications, and services

Characteristics of Cloud Computing

- On-demand self service
- Broad Network Access
- Resource Pooling
- Rapid Elasticity
- Measured Service
- Performance
- Reduced Cost
- Outsourced Management
- Reliability
- Multi-tenancy

Characteristics of Cloud Computing

On-demand self service

Resources should be provisioned by the users without requiring interactions with cloud service provider

The process of provisioning resources is automated.

Characteristics of Cloud Computing

Broad Network Access

Accessing from heterogeneous client platforms such as workstations, laptops, tablets and smart phones should be possible

Resource Pooling

Cloud Service Provider pools the resources for multiple tenants

Multiple users to be served by the same physical hardware

Rapid Elasticity

Resources are rapidly provisioned and should be elastic

Scaled up or down based on demand.

Measured Service

Pay-per use model

User charged based on specific metric

Performance

Consistent performance even during dynamic workload

Characteristics of Cloud Computing

Reduced Costs

Cost benefits for the storage resources

Outsourced Management

Outsource the IT infrastructure requirements from external cloud service providers

Reliability

Applications hosted in cloud are reliable, because the underlying IT infrastructure is managed by cloud service provider

Characteristics of Cloud Computing

Multi-tenancy

Multiple users share the same shared resource

Every component in the system architecture is shared among the multiple tenants

THANK YOU

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