CLOUD COMPUTING

INTRODUCTION

- Cloud computing is the on delivery of compute power, database storage, applications and other IT resources through a cloud service platform with pay-as-you-go pricing model.

- Internet is generally visualized as Cloud.

- Examples are Amazon Web Services, Google Cloud, Microsoft AZURE, Oracle Cloud, etc.

OBJECTIVES

- Eco friendly
- Cost efficiency
- Power saving
- Integrate infrastructure
- Accessibility/availability
- Upgrade is easy

FEATURES

- Scalability
- Reliability
- Availability
- Agility
- Multi sharing
- Multi device access
- Maintenance

- Virtualization
- Performance
- Services in pay per use mode
- Independent
- Unlimited data storage

NIST DEFINITION

- The National Institute of Standards and Technology(NIST) is a measurement standards laboratory, and a non-regulatory agency of the united states department of commerce

- NIST mission is to promote innovation and industrial competitiveness

- Technical definition: cloud computing is a model for enabling ubiquitous, convenient , on demand network aced to a shared pool of configurable computing resource that can be rapidly provisioned and released with minimal management effort or service provider interaction

CHARACTERISTICS

- On demand self service
- Resource pooling
  - Locations Independence
  - Multi-tenancy
- Rapid elasticity
- Measured service
- Broad network access