

INTRODUCTION TO CLOUD COMPUTING

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Cloud Computing Overview

- A **cloud** refers to a distinct IT environment that is designed for the purpose of remotely provisioning scalable and measured IT resources.
The **term** originated as a metaphor for the Internet which is, in essence, a network of networks providing remote access to a set of decentralized IT resources

Characteristics of Cloud Computing

- ❑ **On-Demand Self Service**
- ❑ **Broad network access**
- ❑ **Resource pooling**
- ❑ **Rapid elasticity**
- ❑ **Measured service**

Advantages of cloud computing

- 1. Fresh Software**
- 2. Do more with less**
- 3. Flexible costs**
- 4. Always-on availability**
- 5. Improved mobility**
- 6. More Cost Effective**
- 7. Flexible Capacity**
- 8. Less Environment Impact**

Disadvantages of Cloud Computing

- No longer in Control
- May not get all the Features
- No redundancy
- Bandwidth Issues

Challenges in Cloud Computing

- Security and Privacy
- Reliability and Availability
- Interoperability and Portability
- Performance and Bandwidth Cost

Applications of Cloud Computing

- Infrastructure as a Service(IaaS)
- Platform as a Service(PaaS)
- Software as a Service(SaaS)
- Private and Hybrid Cloud
- Test and Development
- File Storage
- Backup