

## Experiment No. 0\_Study Assignment

Date of Implementation: 14/02/2024

Date of Submission:

**Title:** Introduction to Cloud Infrastructure and Comparative Analysis of Cloud Service Providers

**Aim:** To understand the basics of cloud computing and to compare the major cloud service providers.

### **Objectives:**

1. To understand the concept of cloud computing.
2. To explore the history and evolution of cloud computing.
3. To compare the different types of cloud computing service models.
4. To analyze the advantages and disadvantages of cloud computing.
5. To compare the major cloud service providers based on their services, costing, and web links.

### **Theory:**

**Students brief on the following points**

- Introduction to Cloud Computing
- History of Cloud Computing
- Types of Cloud Computing
- Advantages of Cloud Computing
- Disadvantages of Cloud Computing
- Cloud Computing Service Models
- Cloud Computing Deployment Models
- Comparative Analysis of Cloud Service Providers

### **Conclusion:**

Students should write the learning outcome and conclusion

### **FAQ:**

**Students briefly answer the following questions**

1. What are the different Cloud deployment models?
2. What are cloud computing layers?
3. Explain SaaS, PaaS, IaaS.
4. What are some considerations when choosing a cloud service provider for a specific project or organization?
5. How do major cloud providers support emerging technologies like artificial intelligence (AI) and machine learning (ML)?