

Assignment Set 1

Topic: Introduction to Cloud Computing

Define cloud computing and explain its key characteristics.

Compare traditional IT infrastructure with cloud computing. Highlight the advantages of using cloud computing.

Differentiate between IaaS, PaaS, and SaaS with real-world examples.

List and explain three major benefits and three significant challenges associated with cloud computing.

Assignment Set 2

Topic: History & Evolution of Cloud Computing

Outline the major milestones in the evolution of cloud computing. Include examples of key companies or technologies that contributed to its development. Explain how advancements in internet technology paved the way for the emergence of cloud computing.

Discuss the role of virtualization in the history of cloud computing. Why is it considered a foundational technology?

Compare the early adoption of cloud computing in businesses with its usage today. Highlight the differences in approach and scale.

Assignment Set 3

Topics: Types of Cloud, Cloud Computing Architecture, and Cloud Vulnerabilities

Explain the differences between Public Cloud, Private Cloud, and Hybrid Cloud. Provide use-case scenarios for each.

Draw and label a diagram of the cloud computing architecture. Briefly describe the role of each component (front-end, back-end, middleware).

What are cloud vulnerabilities? Discuss two real-world examples where vulnerabilities in cloud systems led to data breaches.

Describe the security measures that can be implemented to address common cloud vulnerabilities.