

Define cloud? traditional vs cloud computing?

- ① cloud computing definition.
 - ↳ characteristics of cloud.
 - ↳ cloud computing benefits and limitations.
 - ↳ types of cloud
- ② cloud Architecture
- ③ cloud computing vs cluster computing vs Grid computing
- ④ Applications of cloud computing
 - ↳ Technologies and process required when deploying web services.
 - ↳ Deploying a web service from inside and outside of a cloud.

Chapter - 2

- ① Introduction to cloud services.
 - ↳ SaaS vs what are different models for Deployment?
 - ↳ IaaS vs
 - ↳ PaaS vs

- Storage as a service .
- Communication as a service .
- cloud-based big data/real time analytics .

② what is SaaS?

③ load Balancing and Improving performance through load Balancing

④ virtualization ?

↳ objectives , Benefits of virtualization

⑤ Emulation ?

⑥ virtualization for enterprise ?

⑦ VMware ?

⑧ Server virtualization (Definition & Importance)

⑨ Data storage virtualization (Definition & Importance)

Explain the process of virtualization?

Explain how hardware resources such as processor, storage and network can be virtualized .

Chapter - 3 (Service Management)

- ③ cloud vendors and service management in cloud management.
- ↳ Amazon cloud. (Definition, features, advantages)
- ↳ AWS overview. (features, services, Adv.)
- ↳ Installation of AWS.

Explain about Google app engine, Azure cloud.

* salesforce, (features ...)

- ① Explain about service level agreements?
- ② Explain about data stores in cloud?
- ③ Billing & Accounting:

* comparing scaling Hardware:

Traditional vs. cloud

- * Economics of scaling:
- ↳ Benefitting enormously.

Managing Data in cloud.

- ↳ looking at Data.
- ↳ Scalability & cloud services.
- ↳ Database and data stores in cloud.
- ↳ large scale data processing.

(*) What is Microsoft Azure?

Define Azure services and explain them with the help of suitable example?

- ↳ Same thing for, Amazon cloud
- ↳ AWS
- ↳ salesforce
- ↳ Google App Engine.

Chapter 4 → Security concepts

① What are cloud security challenges.

Discuss briefly.

② Explain about cloud security approach.

- ↳ Encryption
- ↳ Tokenization / obfuscation
- ↳ cloud security alliance standards.

↳ cloud security models and patterns?

(III) How are cloud security provided in mainstream vendor solutions?

(IV) Explain about:

- ↳ security assessment
- ↳ secure cloud architecture
- ↳ Authentication in cloud computing.
- ↳ Client access in cloud.
- ↳ cloud contracting model.
- ↳ commercial and business considerations.

Public cloud are less secure. Justify.