

CLOUD COMPUTING ASSIGNMENTS

UNIT-1

1. Explain the importance of virtualization.
2. "SOA as a step forward cloud computing". Explain.
3. What are the fundamental differences between the virtual machine as perceived by a traditional operating system processes and a system VM?
4. What is Software-as-a-Service (SaaS)? Explain the characteristics of SaaS Model?
5. What is virtualization? Enlist and explain some of the common pitfalls that come with virtualization.
6. Explain basic approach to a data center based SOA.
7. What is a Hypervisor? Give the reference architecture of Hypervisor.
8. Write the advantages and disadvantages of virtualization.

UNIT-2

1. Explain in detail about the Cloud application Architectures.
2. What is a grid? What are the differences between grid computing and cluster computing?
3. Discuss the benefits of using a cloud model and also the evolution of cloud computing.
4. Compare and contrast grid computing with cloud computing.
5. Explain in detail about the Cloud Infrastructure models.
6. Is the cloud model reliable? Explain its benefits and limitations.
7. What are the technologies that cloud computing relies on?
8. What is web2.0? Give some examples of web2.0 applications.

UNIT-3

1. Discuss about the service levels for cloud application.

2. Explain in detail, how cloud helps reducing capital expenditure?
3. What is availability? Give the mathematical formulation of finding availability of a component.
4. What features comprise the availability criteria? Compare Amazon, S3 and EC2 with respect to availability.
5. Define performance. What are the different kinds of data storage that have different performance profiles?
6. What are the critical cloud security issues?
7. List out the performance constraints of EC2.
8. Describe the different cloud licensing models.

UNIT-4

1. Discuss about Privacy Design and Compromise Response in cloud.
2. Explain the security concepts in cloud.
3. Discuss about host security and network security in cloud.
4. What is the need of data security in cloud? Explain
5. Discuss about Web Application Design and Machine Image Design.
6. What are the goals of data security in cloud? Explain

UNIT-5

1. Explain about Database-as-a- Service.
2. Discuss about Application-as-a- Service.
3. Explain about Storage-as-a-Service
4. Explain about Process-as-a-Service
5. Discuss in detail about Information-as-a-Service

UNIT-6

1. Explain Integration-as-a-Service.
2. Discuss about Testing-as-a-Service.
3. Explain about management-as-a-Service
4. Explain about Infrastructure-as- a-Service
5. Explain about Security-as-a-Service
6. Explain Governance-as-a-Service

UNIT-7

1. Explain about Disaster Recovery Planning.

2. Describe about Cloud Disaster Management.
3. What is Disaster Recovery? Explain different Disasters in the Cloud
4. Discuss about the different recovery plans that clouds adopt to recover the user data when disaster occurs.
5. How is database recovery done in cloud?
6. What is persistent data? Describe the backup strategy for persistent data.
7. Describe backup strategy of Amazon's EC2.

UNIT-8

1. Write about Amazon simple DB. How does this service work closely with other services? Explain.
2. What is Open Nebula Cloud? Explain main components of Open Nebula.
3. Explain Amazon EC2 service characteristics.
4. What is Nimbus? What is the main way to deploy Nimbus Infrastructure?
5. Explain in detail about the components within the Eucalyptus system