Ganpat University
CE/IT/CE-AI Department
2CEIT603- Cloud Computing
CC_Questions_Bank_2024

Pre-Requisites

1. Differentiate Grid and Cloud Computing.   [3]
2. Differentiate Grid and Cluster Computing.   [3]
3. Differentiate Peer to Peer Computing and Cluster Computing?   [2]
4. What is Utility Oriented Computing?   [2]
5. Discuss classification of Distributed Computing.   [5]

Web-Service

1. Define Web Service. Write characteristics of Web Service.   [2]
2. Explain Web Service architecture   [3]
3. Discuss advantages of Web Service.   [3]
4. Explain Web Service Stack in detail.   [5]
5. Explain WSDL in detail.   [5]
6. Explain Soap and UDDI in detail.   [4]
7. Define SOC and SOA.   [2]

Introduction

1. Define cloud computing.   [1]
2. Discuss characteristics of cloud computing.   [3]
3. Discuss different service models of cloud.   [4]
4. Explain/Differentiate different deployment models of cloud   [4]
5. Explain advantages and disadvantages of cloud computing.   [5]
6. Differentiate IaaS and PaaS.   [3]
7. Differentiate Saas and PaaS.   [3]

Virtualization

1. What is Virtual Computing? What does Virtual machine provide?   [2]
2. How virtual computing is useful?   [3]
3. Define the following:
   a. Server Virtualization b. Network Virtualization c. Storage virtualization
4. Define following: [2]
   a. System Virtual Machine b. Process Virtual Machine.
5. What is Hypervisor?   [1]
6. Explain Classification of Server Virtualization Techniques in detail.   [7]

7. Differentiate between Type 1 vs Type 2 Hypervisors. [5]
8. Explain different types of Type 1 Hypervisor in detail. [5]
9. Differentiate Full Virtualization and Para Virtualization [4]

SAAS

1. Define SaaS. [1]
2. Differentiate SaaS vs ASP. [3]
3. Discuss disadvantages of traditional software model. [3]
4. List out and explain SaaS categories. [2]
5. Discuss evaluation of SaaS. [4]
6. Write characteristics of SaaS. [3]
7. Explain advantages and disadvantages of SaaS. [3]
8. Discuss following terms. [4]
   a. Scalability b. Elasticity
9. Discuss following terms. [4]
   a. Dynamic Provisioning d. Multi-tenant
10. Explain SaaS simple maturity model by Microsoft Corporation. [5]
11. Explain SaaS model by Forrester Research. [5]

IAAS

1. What is IaaS? [1]
2. Explain basic IaaS Characteristics. [4]
3. Discuss features and benefits of IaaS. [3]
4. Discuss virtual machine life cycle. [4]
5. Explain virtual machine provisioning process. [4]
6. Explain different types of VM migration techniques. [5]
7. Differentiate between Hot and Cold migration. [4]
8. Explain algorithm of live migration technique. [5]
9. Discuss advantages and disadvantages of IaaS. [4]

PAAS

1. Define PaaS. Who are users of PaaS? List out PaaS Vendors.[3]
2. Explain requirements of a PaaS Platform. [4]
3. Discuss Platform-as-a-Service reference model in detail. [5]
4. Explain different PaaS implementations categories.[3]
5. Discuss key characteristics of PaaS. [4]

6. Write benefits of Pass.   [4]

TOOLS

1. Explain Windows Azure platform in detail.[5]
2. What is Windows Azure? List out and explain components of it.   [5]
3. Explain compute component of Windows Azure.   [3]
4. Explain storage component of Windows Azure.   [2]
5. Explain fabric component of Windows Azure.   [2]
6. What is Aneka? Explain features of Aneka.   [4]
7. Explain Aneka in brief.   [4]
8. What is AWS ? What is AWS EC2?   [2]
9.   Explain features and benefits of AWS EC2.   [4]
10. What is Eucalyptus?Explain components of eucalyptus.   [5]
11. Explain features and functionalities of Eucalyptus.   [5]
12. Explain the functionalities of cloud sim.   [5]
13. Discuss the functionalities of GoogleApp Engine.   [5]
14. What is Openstack ? Why to use Openstack?   [3]
15. Explain the component and services of Openstack.   [5]
16. List out tools which provide PaaS functionalities and explain any one. [5]
17. List out tools which provide SaaSfunctionalities and explain any one. [5]
18. List out tools which provide IaaS functionalities and explain any one. [5]

SECURITY

1. Discuss the impact of cloud computing on the governance structure of IT
    organizations [3]
2. If cloud computing is so great, why isn't everyone using it? Discuss. [3].
3. Explain security issues in cloud computing. [4]
4. What are the security issues in cloud computing? Discuss solutions to security
    issues. [6-7]
5. Explain taxonomy of fear in using cloud. [3]
6. Explain threat model and its components of security in detail. [6-7]
7. Which types of attackers are in cloud? What are their capabilities and challenges?
    [6-7]
8. How to provide infrastructure security in cloud? Explain in detail. [7]

- Discuss Hadoop Map reduce architecture in brief.
- Explain Google File System architecture in detail
- Discuss advantages and disadvantages of stateless and stateful server
- Explain SaaS model by Forester Research
- Explain SaaS simple maturity model by Microsoft Corporation.
- Discuss Platform.as-a-service reference model in detail
- Explain different PaaS implantations categories. List out key characteristics of PaaS
- Explain Windows Azure platform in details.
- Explain Platform-as-a-Service reference model