

# CLOUD INFRASTRUCTURE AND SERVICES - 2180712

## Question Bank

### UNIT – 1 – Introduction to Cloud Technologies

Sr.No	Questions	Date	Marks
1	What is Cloud and Cloud Computing? Differentiate Conventional Computing and Cloud Computing.	29-11-2019	03
2	Which are the deployment models of cloud? How do private cloud work? The Gujarat Technological University wants to manage and Analyze Engineering student's record on a cloud. Which Deployment is suitable for this scenario? Why?	29-11-2019	07
3	State different characteristics of cloud computing?	17-05-2019	03
4	Explain IAAS, PAAS, SAAS in details.	17-05-2019	07
5	Mention benefits of cloud computing technology.	17-05-2019	03
6	Define cloud computing with its features.	29-11-2018	03
7	List cloud deployment models and describe Public cloud.	29-11-2018	04
8	Compare different cloud service provider.	29-11-2018	07
9	Explain IAAS, PAAS, and SAAS with an example?	29-11-2018	07
10	Explain Pros and Cons of Cloud Computing.	29-11-2018	03
11	Write a note on Cloud Computing Stack	29-11-2018	04
12	Which cloud is better? Public or Private. Justify your answer.	29-11-2018	03
13	Explain Public, Private, Community and Hybrid Cloud.	29-11-2018	07
14	What is Eucalyptus? Explain in brief	29-11-2018	03
15	Explain Pros and Cons of Cloud Computing.	07-05-2018	03
16	Define cloud computing and state its desirable features	07-05-2018	07
17	List cloud deployment models and describe community cloud.	07-05-2018	04
18	Write a note on Cloud Computing Stack	07-05-2018	07
19	Which cloud is better? Public or Private. Justify your answer	07-05-2018	04
20	What is Eucalyptus? Explain in brief	07-05-2018	04

### UNIT – 2 – Virtualization and Cloud Platforms

Sr.No	Questions	Date	Marks
1	What is a Hypervisor? How Type-1 and Type-2 Hypervisor works?	29-11-2019	04
2	What is Virtualization? What is the role of virtualization in cloud computing? Which form of virtualization is used in cloud for effective resource utilization?	29-11-2019	07
3	Differentiate Full and Para Virtualization. Why operating system is needed to be modified in Para Virtualization? How does Hardware Assisted Virtualization work?	29-11-2019	07
4	Define Virtualization. Mention its different types.	17-05-2019	04
5	Define Hypervisor with two examples.	17-05-2019	03
6	Define term Machine Imaging.	17-05-2019	04
7	What is load balancing? Explain need of load balancing in cloud computing.	29-11-2018	04
8	Explain Virtualization and Hypervisor?	29-11-2018	07
9	Define load balancing. What is need of load balancing in cloud computing?	07-05-2018	04
10	Compare and Contrast Emulation and Para-Virtualization	07-05-2018	04
11	What are Hypervisors? List its importance	07-05-2018	03

12	Compare different cloud service provider.	07-05-2018	07
<b>UNIT – 3 – Introduction to AWS</b>			
<b>Sr.No</b>	<b>Questions</b>	<b>Date</b>	<b>Marks</b>
1	What are service elasticity and service orchestration in cloud computing? What are the issues of Software as a Service (SaaS)?	29-11-2019	03
2	Which are the service models of cloud? Which service model is suitable for storing the large amount of data and performing heavy computation tasks of a Scientific research lab? Justify your answer.	29-11-2019	07
3	State different AWS services.	17-05-2019	03
4	Explain following terms: Pod, silos and aggregations in Cloud.	17-05-2019	03
5	Write a note on AWS Ecosystem.	17-05-2019	04
6	Write a note on AWS Ecosystem.	29-11-2019	04
7	Explain Pod, silos and aggregations in terms of Cloud	07-05-2018	03
8	Write a note on AWS Ecosystem.	07-05-2018	03
<b>UNIT – 4 – Programming, Management Console and Storage on AWS</b>			
<b>Sr.No</b>	<b>Questions</b>	<b>Date</b>	<b>Marks</b>
1	Write steps to host and access GTU examination system on AWS public cloud (Mention proper addressing and machine configuration).	29-11-2019	04
2	What is Amazon EC2? How to connect virtual Ubuntu server hosted on AWS public cloud?	29-11-2019	04
3	How do you automatically start and stop Amazon EC2 instance? How does AWS handle availability? Which are the Availability zones of Amazon cloud?	29-11-2019	03
4	What is Amazon ElastiCache? What are Amazon ElastiCache nodes, shards and clusters?	29-11-2019	04
5	What is Amazon Glacier? How does it work? Differentiate Glacier and S3.	29-11-2019	07
6	What is Amazon S3? How do you access Amazon S3 data using API?	29-11-2019	04
7	Write a note on AWS API Security	17-05-2019	04
8	Define Amazon S3 with its benefits and use cases.	17-05-2019	07
9	What is Amazon Glacier and how is it different from S3?	17-05-2019	04
10	Explain Amazon S3? Explain Amazon S3 API in details.	29-11-2019	07
11	Write a short note on EC2.	29-11-2018	07
12	What is SOAP and REST web services?	29-11-2018	04
13	What is Glacier and how it is beneficial?	29-11-2018	07
14	Explain Amazon S3? Explain Amazon S3 API? What are the operations we can execute through API?	07-05-2018	07
15	What is SOAP and REST web services?	07-05-2018	04
16	Write a note on EC2	07-05-2018	07
<b>UNIT – 5 – AWS identity Services, Security and Compliance</b>			
<b>Sr.No</b>	<b>Questions</b>	<b>Date</b>	<b>Marks</b>
1	What are security vulnerabilities of the public cloud platform? How does Amazon cloud handle security issues?	29-11-2019	04
2	What is need of Identity and Access Management in public cloud? How five engineering students can share their Amazon Account? Write necessary steps to perform this task.	29-11-2019	07

3	List the OpenIDL authentication Steps in cloud security	17-05-2019	04
4	Define functionalities of Identity and Access Management (IAM) ?	17-05-2019	03
5	Write a note on AWS Security Mechanism.	17-05-2019	07
6	What are the functionalities of Identity and Access Management (IAM)?	29-11-2018	03
7	List the OpenIDL authentication Steps in cloud security	29-11-2018	07
8	What do you mean by Identity Management and Access Management?	29-11-2018	04
9	Write a note on AWS Security	29-11-2018	07
10	List the OpenIDL authentication Steps in cloud security	07-05-2018	03
11	What is Dark Web? Explain in brief	07-05-2018	03
12	What are the functionalities of Identity and Access Management (IAM) ?	07-05-2018	04
13	Write a note on AWS Security	07-05-2018	07
14	What are the challenges to data security in cloud	07-05-2018	03
<b>UNIT – 6 – AWS Computing and Marketplace</b>			
<b>Sr.No</b>	<b>Questions</b>	<b>Date</b>	<b>Marks</b>
1	How do multi tenancy and service elasticity can be achieved in cloud computing?	29-11-2019	03
2	What is virtual computing and virtual machine? What is role of machine imaging in the Amazon cloud platform?	29-11-2019	04
3	What is load balancing? How does Amazon Cloud perform load balancing? How does AWS Elastic load balancer work?	29-11-2019	07
4	Explain Elastic Load Balancer in AWS.	29-11-2018	04
5	Explain Elastic Load Balancer	07-05-2018	07
<b>UNIT – 7 – AWS Networking and Databases</b>			
<b>Sr.No</b>	<b>Questions</b>	<b>Date</b>	<b>Marks</b>
1	What is Amazon ElastiCache? What are Amazon ElastiCache nodes, shards and clusters?	29-11-2019	03
2	What are DynamoDB and SimpleDB? What is the maximum storage capacity of DynamoDB and SimpleDB?	29-11-2019	04
3	Which database services are available on Amazon Cloud? What is use of Amazon RedShift? What are the limitations of RedShift?	29-11-2019	07
4	Define Amazon DynamoDB non-relational database architecture with its benefits.	17-05-2019	07
5	Give overview of Virtual Private Cloud.	17-05-2019	03
6	Compare Relational and Non-Relational Database Service	17-05-2019	04
7	Differentiate between Dynamo-DB and Amazon S3.	29-11-2018	03
8	Explain Virtual Private cloud and Redshift?	29-11-2018	03
9	Compare and contrast Dynamo-DB and Amazon S3	07-05-2018	04
10	How Virtual Private Cloud works?	07-05-2018	07
<b>UNIT – 8 – Other AWS Services and Management Services</b>			
<b>Sr.No</b>	<b>Questions</b>	<b>Date</b>	<b>Marks</b>
1	What is the use of CloudWatch and CloudFormation?	29-11-2019	03
2	What is use of CloudTrail in Amazon cloud?	29-11-2019	04

3	What is Big Data Analytics? What is the use of DataLake in Amazon Cloud?	29-11-2019	04
4	Mention working mechanism of AWS CloudTrail with its benefits.	17-05-2019	07
5	How Security analysis can be performed using AWS CloudTrail?	17-05-2019	04
6	How Amazon Cloudwatch collect,monitor act and analyse different activities? State benefits of Amazon Cloudwatch	17-05-2019	07
7	Expalin OpsWorks offerings: AWS Opsworks for Chef Automate, AWS OpsWorks for Puppet Enterprise, and AWS OpsWorks Stacks.	17-05-2019	07
8	How Chef and Puppet instances are managed using Amazon OpsWorks	17-05-2019	04
9	How we can say our data is secure on cloud and what are the challenges to achieve it?	29-11-2018	03
<b>UNIT – 9 – AWS billing and Dealing with Disaster</b>			
<b>Sr.No</b>	<b>Questions</b>	<b>Date</b>	<b>Marks</b>
1	What are the possible disasters in public cloud? How does Amazon Cloud handle Disaster recovery?	29-11-2019	07
2	How AWS Billing mechanism works?	17-05-2019	07
3	Expain term: Disaster recovery. How Disaster recovery in Aws cloud is handled?	17-05-2019	07
4	How AWS deals with Disaster recovery?	29-11-2018	04
5	How AWS deals with Disaster recovery?	07-05-2018	07
6	How does Cloud deals with Disaster Recovery	07-05-2018	03

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