CLOUD COMPUTING VIVA QUESTION

1) What are the advantages of using cloud computing?

Ans:

The advantages of using cloud computing are

Data backup and storage of data

Powerful server capabilities

SaaS (Software as a service)

Information technology sandboxing capabilities

Increase in productivity

Cost effective & Time saving

2) Mention platforms which are used for large scale cloud computing?

Ans: The platforms that are used for large scale cloud computing are

Apache Hadoop

MapReduce

Cloud Computing Interview Question And Answers

3) Explain different models for deployment in cloud computing?

Ans: The different deployment models in cloud computing are

Private Cloud

Public Cloud

Community Cloud

Hybrid Cloud

4) What is the difference in cloud computing and computing for mobiles?

Ans: Mobile computing uses the same concept as cloud computing. Cloud computing becomes active with the data with the help of internet rather than individual device. It provides users with the data which they have to retrieve on demand. In mobile, the applications runs on the remote server and gives user the access for storage and manage.

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5) How user can gain from utility computing?

Ans: Utility computing allows the user to pay only for what they are using. It is a plug-in managed by an organization which decides what type of services has to be deployed from the cloud.

Most organizations prefer hybrid strategy.

6) For a transport in cloud how you can secure your data?

Ans: To secure your data while transporting them from one place to another, check that there is no leak with the encryption key implemented with the data you are sending.

7) What are the security aspects provided with cloud?

Ans: Identity management: It authorizes the application services

Access control: permission has to be provided to the users so that they can control the access of another user who is entering into the cloud environment.

Authentication and Authorization: Allows only the authorized and authenticated user only to access the data and applications

8) List out different layers which define cloud architecture?

Ans: The different layers used by cloud architecture are

CLC or Cloud Controller

Walrus

Cluster Controller

SC or Storage Controller

NC or Node Controller

9) What are system integrators in Cloud Computing?

Ans: In Cloud Computing, systems integrator provides the strategy of the complicated process used to design a cloud platform. Integrator allows to create more accurate hybrid and private cloud network, as integrators have all the knowledge about the data center creation.

10) What is " EUCALYPTUS" stands for?

Ans: " EUCALYPTUS" stands for Elastic Utility Computing Architecture For Linking Your Programs To Useful Systems"

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11) Explain what is the use of "EUCALYPTUS" in cloud computing?

Ans: "Eucalyptus" is an open source software infrastructure in cloud computing, which is used to implement clusters in cloud computing platform. It is used to build public, hybrid and private clouds. It has the ability to produce your own data center into a private cloud and allows you to use its functionality to many other organizations.

12) What is the requirement of virtualization platform in implementing cloud?

Ans:

The requirement of virtualization platform in implementing cloud is to

Manage the service level policies

Cloud Operating System

virtualization platforms helps to keep the backend level and user level concepts different from each other

13) Before going for cloud computing platform what are the essential things to be taken in concern by users?

Ans: Compliance

Loss of data

Data storage

Business continuity

Uptime

Data integrity in cloud computing

14) Mention some open source cloud computing platform databases?

Ans:

The open source cloud computing platform databases are

MongoDB

CouchDB

LucidDB

15) What are the security laws which are implemented to secure data in a cloud ?

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Ans: The security laws which are implemented to secure data in cloud are

Processing: Control the data that is being processed correctly and completely in an application

File: It manages and control the data being manipulated in any of the file

Output reconciliation: It controls the data which has to be reconciled from input to output

Input Validation: Control the input data

Security and Backup: It provides security and backup it also controls the security breaches logs

16) Mention the name of some large cloud providers and databases?

Ans: Google bigtable

Amazon simpleDB

Cloud based SQL

17) Explain the difference between cloud and traditional datacenters?

Ans: The cost of the traditional data center is higher due to heating and hardware/software issues

Cloud gets scaled when the demand increases. Majority of the expenses are spent on the maintenance of the data centers, while that is not the case with cloud computing

18) Explain what are the different modes of software as a service (SaaS)?

Ans: Simple multi-tenancy : In this each user has independent resources and are different from other users, it is an efficient mode.

Fine grain multi-tenancy: In this type, the resources can be shared by many but the functionality remains the same.

19) What is the use of API's in cloud services?

Ans: API's (Application Programming Interface) is very useful in cloud platforms

It eliminates the need to write the fully fledged programs

It provides the instructions to make communication between one or more applications

It allows easy creation of applications and link the cloud services with other systems

20) What are the different data centers deployed for cloud computing?

Ans:

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Cloud computing consists of different datacenters like,

Containerized Datacenters

Low Density Datacenters

21) In cloud computing what are the different layers?

Ans: The different layers of cloud computing are:

SaaS: Software as a Service (SaaS), it provides users access directly to the cloud application without installing anything on the system.

IaaS: Infrastructure as a service, it provides the infrastructure in terms of hardware like memory, processor speed etc.

PaaS: Platform as a service, it provides cloud application platform for the developers

22) How important is the platform as a service?

Ans:

Platform as a service or PAAS is an important layer in cloud computing. It provides application platform for providers. It is responsible for providing complete virtualization of the infrastructure layer and makes it work like a single server.

23) What is a cloud service?

Ans: Cloud service is used to build cloud applications using the server in a network through internet. It provides the facility of using the cloud application without installing it on the computer. It also reduces the maintenance and support of the application which are developed using cloud service.

24) List down the three basic clouds in cloud computing?

Ans: Professional cloud

Personal cloud

Performance cloud

25) As a infrastructure as a service what are the resources that are provided by it?

Ans: IAAS (Infrastructure As A Service) provides virtual and physical resources that are used to build a cloud. It deals with the complexities of deploying and maintaining of the services provided by this layer. Here the infrastructure is the servers, storage and other hardware systems.

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26) What are the business benefits involved in cloud architecture?

Ans:

The benefits involved in cloud architecture is,

Zero infrastructure investment

Just in time infrastructure

More efficient resource utilization

27) What are the characteristics of cloud architecture that separates it from traditional one?

Ans: The characteristics that makes cloud architecture above traditional architecture is,

According to the demand cloud architecture provides the hardware requirement

Cloud architecture is capable of scaling the resource on demand

Cloud architecture is capable of managing and handling dynamic workloads without failure

28) Mention what is the difference between elasticity and scalability in cloud computing?

Ans: Scalability is a characteristics of cloud computing through which increasing workload can be handled by increasing in proportion the amount of resource capacity. Whereas, elasticity, is being one of the characteristics that highlights the concept of commissioning and decommissioning of a large amount of resource capacity.

29) Mention the services that are provided by Window Azure Operating System?

Ans:

Window Azure provides three core services which are given as

Compute

Storage

Management

30) In cloud architecture what are the different components that are required?

Ans:

Cloud Ingress

Processor Speed

Cloud storage services

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Cloud provided services

Intra-cloud communications

31) In cloud architecture what are the different phases involved?

Ans:

Launch Phase

Monitor Phase

Shutdown Phase

Cleanup Phase

32) List down the basic characteristics of cloud computing?

Ans: Elasticity and Scalability

Self-service provisioning and automatic de-provisioning

Standardized interfaces

Billing self service based usage model

33) In cloud architecture what are the building blocks?

Ans: Reference architecture

Technical architecture

Deployment operation architecture

34) Mention in what ways cloud architecture provide automation and performance transparency?

Ans: To provide the performance transparency and automation there are many tools used by cloud architecture. It allows to manage the cloud architecture and monitor reports. It also allows them to share the application using the cloud architecture. Automation is the key component of cloud architecture which helps to improve the degree of quality.

35) In cloud computing explain the role of performance cloud?

Ans: Performance cloud is useful in transferring maximum amount of data instantly. It is used by the professionals who work on high performance computing research.

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36) Explain hybrid and community cloud?

Ans: Hybrid cloud: It consists of multiple service providers. It is a combination of public and private cloud features. It is used by the company when they require both private and public clouds both.

Community Cloud: This model is quite expensive and is used when the organizations having common goals and requirements, and are ready to share the benefits of the cloud service.

37) In cloud what are the optimizing strategies?

Ans: To overcome the maintenance cost and to optimize the resources ,there is a concept of three data center in cloud which provides recovery and back-up in case of disaster or system failure and keeps all the data safe and intact.

38) What is Amazon SQS?

Ans: To communicate between different connectors Amazon SQS message is used, between various components of AMAZON, it acts as a communicator.

39) How buffer is used to Amazon web services?

Ans: In order to make system more efficient against the burst of traffic or load, buffer is used. It synchronizes different component . The component always receives and processes the request in an unbalanced way. The balance between different components are managed by buffer, and makes them work at the same speed to provide faster services.

40) Mention what is Hypervisor in cloud computing and their types?

Ans: Hypervisor is a Virtual Machine Monitor which manages resources for virtual machines. There are mainly two types of hypervisors

Type 1: The guest Vm runs directly over the host hardware, eg Xen, VmWare ESXI

Type 2: The guest Vm runs over hardware through a host OS, eg Kvm, oracle virtualbox

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