

# Basic Cloud Computing Job Interview Questions And Answers



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# Basic Cloud Computing Interview Questions And Answers Guide.

## Question - 1:

What is elasticity?

### Ans:

Elasticity is being one of the characteristic provide the concept of commissioning and decommissioning of large amount of resource capacity dynamically. It is measured by the speed by which the resources are coming on demand and the usage of the resources.

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## Question - 2:

What is scalability?

### Ans:

Scalability is a characteristic of cloud computing through which increasing workload can be handled by increasing in proportion the amount of resource capacity. It allows the architecture to provide on demand resources if the requirement is being raised by the traffic.

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## Question - 3:

Explain basic characteristics of cloud computing?

### Ans:

- \* Elasticity and Scalability
- \* Self-service provisioning and automatic de-provisioning
- \* Standardized interfaces
- \* Billing self service based usage model

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## Question - 4:

Explain 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

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## Question - 5:

Explain the importance of platform as a service?

### Ans:

Platform as a Service is an important layer in cloud architecture. It is built on the infrastructure model, which provides resources like computers, storage and network. This layer includes organizing and operate the resources provided by the below layer. It is also responsible to provide complete virtualization of the infrastructure layer to make it look like a single server and keep it hidden from the outside world.

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## Question - 6:

What is Authentication and Authorization?



**Ans:**

Allows only the authorized and authenticated user only to access the data and applications.

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**Question - 7:**

What is Identity management?

**Ans:**

It authorizes the application services.

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**Question - 8:**

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

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**Question - 9:**

Tell me 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

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**Question - 10:**

Explain different layers in Basic Cloud Computing?

**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

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**Question - 11:**

Explain three basic clouds in cloud computing?

**Ans:**

- \* Professional cloud
- \* Personal cloud
- \* Performance cloud

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**Question - 12:**

Explain different data centers deployed for cloud computing?

**Ans:**

Cloud computing consists of different datacenters like:

- \* Containerized Datacenters
- \* Low Density Datacenters

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**Question - 13:**

Explain 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.

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**Question - 14:**

Explain security aspects provided with cloud?

**Ans:**

- \* Identity management:



- \* Access control:
- \* Authentication and Authorization:

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### Question - 15:

How user can gain from utility computing in Basic Cloud 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.

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### Question - 16:

What are the different models for deployment in cloud computing?

#### Ans:

The different deployment models in cloud computing are:

- \* Private Cloud
- \* Public Cloud
- \* Community Cloud
- \* Hybrid Cloud

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### Question - 17:

Describe platforms which are used for large scale cloud computing?

#### Ans:

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

- \* Apache Hadoop
- \* MapReduce

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### Question - 18:

Tell me is it cost effective to implement a private cloud rather than a public cloud and why?

#### Ans:

It depends on the type of business that demands a cloud setup. Suppose if the subscription on a public cloud for an application that is to be deployed on OS images is proving to be more costly then to buy some new datacenters and maintain them. Then obviously the a private cloud has to be setup instead of a public cloud. This public clouds follow utility billing methodology as electricity bill for example.

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### Question - 19:

Tell me why should one prefer public cloud over private cloud?

#### Ans:

The cloud technology is the best example of sustainable technology that utilizes all the computing resources. If a person needs to setup a quick business and wants to host its website, he need not require to setup a full-fledged private cloud. Rather he should go for public cloud hosting that provides different pay-per-use subscriptions, which could actually result in being economical. There are numbers of vendors that provide such services like godaddy.com etc.

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### Question - 20:

Explain how is the Cloud Computing different from primitive Client-Server Architecture?

#### Ans:

The primitive Client-Server architecture is a one-to-one communication between only two physical machines namely Client machine and Server machine (datacenter). Whereas the cloud computing, infrastructure is similar at the client side but varies at server-side. The server-side contains a main Cloud Controller that forwards the request to its worker machines known as Nodes. These nodes are a grid computing machines that dedicate all its resources to process application. These nodes are maintained in clusters. So a cloud computing infrastructure is quite complicated on server side that processes all the requests from clients and send the result back.

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### Question - 21:

Explain what is the minimal requirement to implement an IAAS Cloud?

#### Ans:

The minimal requirement to implement are basically three things:

- OS to support hypervisor or a hypervisor.
- Preferably open-source software like Linux and Xen hypervisor
- Networking topology and implementation.
- Public Network or Private network with Level 3 Switch
- Selection of cloud model as per requirement or business.
- SaaS, Software as a Service



- PaaS, Platform as a Service
- CaaS, Communication as a Service

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### Question - 22:

Tell me does network topology play an important role in deciding the success of a Cloud Infrastructure?

#### Ans:

The network topology plays a vital role in selecting a cloud model and success of that model

Public Cloud

These are the platforms which are public means open to the people for use and deployment. For example, google, amazon etc. They focus on a few layers like cloud application, infrastructure providing and providing platform markets.

Private Cloud

Organizations choose to build their private cloud as to keep the strategic, operation and other reasons to themselves and they feel more secure to do it.

Hybrid Clouds

It is the combination of public and private cloud. It is the most robust approach to implement cloud architecture as it includes the functionalities and features of both the worlds.

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### Question - 23:

Do you know Hybrid Clouds?

#### Ans:

It is the combination of public and private cloud. It is the most robust approach to implement cloud architecture as it includes the functionalities and features of both the worlds.

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### Question - 24:

Do you know Private Cloud?

#### Ans:

Organizations choose to build their private cloud as to keep the strategic, operation and other reasons to themselves and they feel more secure to do it.

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### Question - 25:

Do you know Public Cloud?

#### Ans:

These are the platforms which are public means open to the people for use and deployment. For example, google, amazon etc. They focus on a few layers like cloud application, infrastructure providing and providing platform markets.

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### Question - 26:

Explain what do you understand by CaaS?

#### Ans:

CaaS is a terminology given in telecom industry as Communication as a Service. The Voice-over-Ip (VoIP) follows a same delivery model. CaaS can offer the enterprise user features such as desktop call control, presence, unified messaging, and desktop faxing. In addition to the enterprise features, CaaS also has a set of services for contact center automation that includes IVR, ACD, call recording, multimedia routing (e-mail and text chat), and screen pop integration.

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### Question - 27:

Tell me what are the characteristics on which a Cloud Computing Model should be selected for implementing and managing workload?

#### Ans:

Scalability is a characteristic of cloud computing through which increasing workload can be handled by increasing in proportion the amount of resource capacity. It allows the architecture to provide on demand resources if the requirement is being raised by the traffic. Whereas, elasticity is being one of the characteristic provide the concept of commissioning and decommissioning of large amount of resource capacity dynamically. It is measured by the speed by which the resources are coming on demand and the usage of the resources.

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### Question - 28:

Explain are Type-1 Hypervisors better in performance than Type-2 Hypervisors and Why?

#### Ans:

Yes the Type-1 Hypervisors are better in performance as compared to Type-2 hypervisors because Type-1 hypervisors does not run through a host OS, they utilize all resources directly from Host hardware. In cloud implementation Type-1 hypervisors are used rather than Type-2 because Cloud servers need to run multiple OS images and it should be noted that if OS images are run on host a OS as in case of Type-2, the resources will get wasted.

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### Question - 29:

Explain what is Hypervisor in Cloud Computing and its types?



**Ans:**

The hypervisor is a virtual machine monitor (VMM) that manages resources for virtual machines. The name hypervisor is suggested as it is a supervisory tool for the virtual machines. There are mainly two types of hypervisors :

Type-1: the guest Vm runs directly over the host hardware, e.g Xen, Hyper-V, VmWare ESXi

Type-2: the guest Vm runs over hardware through a host OS, e.g Kvm, Oracle virtualbox

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**Question - 30:**

Tell me is Cloud Computing an application?

**Ans:**

The Cloud Computing is not an application but it is a methodology that deploys application in a custom fashion on a server. It can be also learned as an advance model of client-server architecture that is highly flexible, scalable and configurable. This architecture leverages high performance out of machines with quite an ease of management.

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