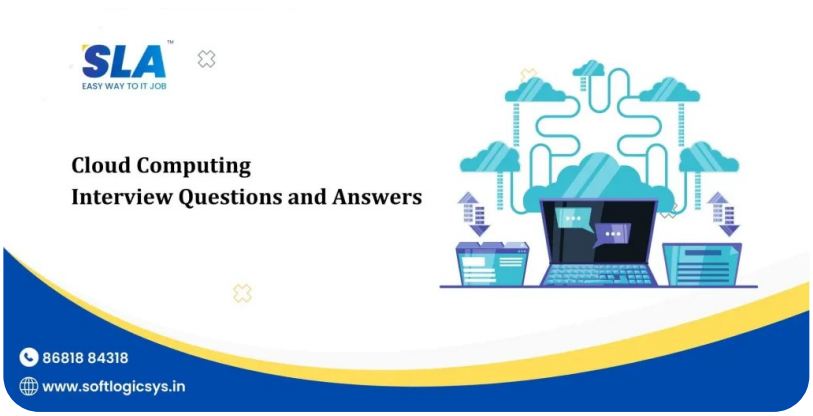

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Top 20 Cloud Computing Interview Questions and Answers

Published On: April 1, 2022

Cloud Computing Interview Questions and Answers

Cloud computing professionals are in demand in global organizations to store and manage their business data and Amazon, Deloitte, Google, and IBM are the top recruiters. Here we meticulously gathered the frequently asked Cloud Computing Interview Questions and Answers for the aspirants successfully to clear the technical rounds of top companies.

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1. Define Cloud Computing

Cloud computing refers to the availability of computer resources that customers can use over the Internet to meet their demands, including software, platforms, infrastructure, and data. Cloud services offer users an extensive network of global web services with pay-as-you-go options.

2. List out the types of cloud computing

Cloud Computing is not only used for organizations and businesses but is also useful for individuals. The various types of cloud computing services are as follows.

- SaaS (Software-as-a-Service)
- IaaS (Infrastructure-as-a-Service)
- PaaS (Platform-as-a-Service)
- Data Storage and File Sharing with Dropbox
- Big Data Analysis with Civis Analytics
- Data Governance through Carbonite
- Cybersecurity with Forcepoint

3. List out the benefits of Cloud Computing

Cloud Computing offers numerous benefits for users and some of them are as follows

- Efficiency for business operations
- Accessibility of applications and data from any location
- Cost-saving through scalable computing resources with pay-as-you-go facilities
- Security with the simplest standards that protect client's data saved on cloud platforms.
- Disaster recovery for small to large organizations
- Flexibility and increased collaboration for various business projects

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4. List out the data types that are used in cloud computing

In cloud computing, we can use various data types such as email, text, decimal, number, locale, images, date, Boolean, contact, video, etc. New data types are also added to store the user's data, as the data is increasing day by day.

5. Explain the system integrators in cloud computing

System integrations have emerged since 2006 and they are the practice of bringing components of a system together into a whole to make sure the system performs correctly and smoothly. A company or individual that specializes in system integration is known as a system integrator.

6. Explain Private Cloud Storage

Private cloud storage is a secure, scalable, and expensive cloud storage type that is suitable for large-size organizations. The user of private cloud storage will have complete control over the data. Private clouds are used to keep important business operations secure.

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7. Define Public Cloud Storage

Public cloud storage is reliable, affordable, and scalable; it doesn't need any maintenance and it is suitable for mid-sized companies and individual users. Anyone who has user authority can utilize public cloud storage such as Google Cloud, Microsoft Azure, and IBM Cloud.

8. What is Hybrid Cloud Storage?

Hybrid cloud storage is secure, affordable, and scalable, and it offers an easy customization environment through third-party private and public

service providers to meet the demand. It contains the features and functionalities of both cloud storage types and it allows organizations to create cloud storage for their users.

9. Explain resource replication in Cloud Computing

Resource replication is the creation of various instances from the same resources, like infrastructure. When the user is required to improve the performance and availability of the resources, resource replications will be applied. Virtualization operations will be performed to replicate IT resources with the use of a replication mechanism.

10. List out the building blocks of cloud architecture.

The major building blocks of cloud architecture are reference architecture, technical architecture, and deployment operation architecture.

11. What are the benefits of using cloud services?

The main benefits for companies in using cloud services are cost-saving as it helps in the utilization of investment in the corporate sector, scalable and robust by helping in the development of scalable and robust software applications, and time-saving as it helps in saving time for deployment and maintenance.

12. What is CaaS?

CaaS refers to “communication as a service” that is used in the telecom industry. It offers enterprise user features such as desktop call control, desktop faxing, and unified messaging.

Cloud Engineer Salary

Cloud Computing Interview Questions and Answers for Experienced

13. Define AMI

- AMI stands for Amazon Machine Image, which means a virtual machine that provides the required information to deploy instances.
- Users can launch many instances with the same configuration in parallel from a single AMI. It contains Amazon EBS, launch permissions, snapshots, and device mapping.
- AMI is the copy of a disk that is attached to the instance and contains multiple disk images.
- The main component is the read-only image that includes Windows, Linux, and UNIX operating systems and software applications to deliver a portion of a service.

14. What are the open-source cloud computing platform databases available today?

The available open-source cloud computing platform databases are MongoDB, CouchDB, and LucidDB.

MongoDB is an open-source database platform based on a NoSQL document where it stores and records data in table rows.

CouchDB is based on an Apache server database that allows access to any data through the Couch Replication Protocol and it speaks JSON that supports binary data for storage requirements.

LucidDB is written in C++ and Java programming languages and is an open-source relational database management system used in business intelligence and data warehousing. It enables better performance with a single Windows or Linux server.

15. List some of the popular platforms for cloud architecture.

Numerous platforms across the world offer unique features in cloud architecture. Some of the popular cloud architecture platforms are listed below:

AWS: Amazon Web Services is a secure platform that offers content delivery, cybersecurity, mobile computing, software development, data science operations, database storage, and so on.

Microsoft Azure: It is a widely used platform that offers features to build, test, manage, and deploy services and applications. It has a wide range of cloud services to help businesses address their challenges and needs in software development.

Google Cloud Platform: It offers infrastructure services and tools for global business operations. End-users can avail of their services such as networking, IoT device development, big data, data transfer, storage, computing, databases, and so on.

IBM Cloud: It provides Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) for enterprises to access IT resources that include networking, storage, and computing power.

Alibaba Cloud: It offers cutting-edge technologies across databases, storage, security, networking, computing, and many more.

Huawei Cloud: It provides secure, reliable, stable, and sustainable cloud services for enterprises to grow easily and effectively.

Oracle Cloud: It contains managed data centers to provide servers, applications, networks, services, and storage over the Internet.

16. What is “EUCALYPTUS” in cloud computing?

EUCALYPTUS (Elastic Utility Computing Architecture for Linking Your Programs to Useful Systems) is an open-source software application that provides S3-compatible cloud storage and EC-2 compatible computing platform.

It facilitates scalable and efficient private and hybrid clouds within an IT infrastructure. It supports

high-performance cloud computing that can be deployed on Linux OS distributions like RHEL/CentOS, OpenSUSE, Ubuntu, and Debian.

The salient features of Eucalyptus are compatibility with AWS (EBS, EC2, and S3), elastic IP management, a web-based interface for configuration, policies, and SLAs, and support for hypervisor technologies.

17. What is edge computing and how do they showcase its connection with the cloud?

- Edge computing is a distributed and modern IT architecture that processes client data and computation for the closest possible network source. It will enhance response time to save bandwidth.
- It will replace the row data processing and transfer it to the main data center for analysis and it will move some parts of computing resources and storage out of the data center.
- Edge computing is integrated with the cloud as it involves some processes that execute in the cloud.
- It moves some computing processes to edge computing-based devices such as edge servers and IoT devices.
- The combination of computing processes and edge computing leads to better performance outcomes.
- Enterprises that use both computing to benefit from cloud platforms and the performance of cloud data centers will not always be supported due to latency problems.

18. Explain hypervisor in Cloud Computing

The hypervisor is the software application used in cloud deployment to allocate various resources after separating them into multiple pieces of hardware.

- It is used as a key that allows virtualization. It is

also known as the software firmware that is installed on single hardware to host virtual machines.
- It allows a single server to execute various virtual machines independently with various operating systems.
- If one VM crashes, it will not affect other VMs, operating systems, or applications using this hypervisor mechanism in cloud computing.

19. What are the uses of APIs in cloud services?

- The APIs are providing authorization and authentication to access cloud services like storage, monitoring, or computing infrastructure.
- APIs have significant functions of the application or service that the user is required to execute while using them. Users can develop applications or integrate business tools to make management work more manageable.
- API offers an interface or gateway for an organization to communicate directly with cloud services as per their terms and conditions.

20. List out the phases of cloud architecture.

The various phases of cloud architecture are as follows:

- Launch Phase
- Monitor Phase
- Shutdown Phase
- Cleanup Phase.

Conclusion

We hope the provided cloud computing interview questions and answers will help you gain expertise with significant cloud computing concepts. Discover

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