ARYATECHNO

Top 10 AWS Cloud Interview Questions and answers

Topics : AWS
Written on December 11, 2023

What is AWS?

- **Answer:** Amazon Web Services (AWS) is a comprehensive, evolving cloud computing platform provided by Amazon. It offers a wide array of services, including computing power, storage, databases, machine learning, analytics, and more, to help businesses scale and grow.

2. What are the key components of AWS?

- **Answer:** AWS comprises various services, but some key components include:
  - Compute Services (e.g., EC2, Lambda)
  - Storage Services (e.g., S3, EBS)
  - Database Services (e.g., RDS, DynamoDB)
  - Networking Services (e.g., VPC, Route 53)
  - Security and Identity Services (e.g., IAM, KMS)

3. Explain what Amazon EC2 is.

- **Answer:** Amazon Elastic Compute Cloud (EC2) is a web service that provides resizable compute capacity in the cloud. It allows users to run virtual servers, known as instances, with a variety of operating systems. Users can scale their compute capacity up or down based on their requirements.

4. What is S3?

- **Answer:** Amazon Simple Storage Service (S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. It allows users to store and retrieve any amount of data at any time from the web.

5. Explain the concept of VPC (Virtual Private Cloud).

- **Answer:** Amazon VPC enables users to launch Amazon Web Services resources into a virtual network that they've defined. It provides complete control over the virtual networking environment, including IP address range, subnets, and configuration of route tables and network gateways.

6. What is AWS Lambda?

- **Answer:** AWS Lambda is a serverless computing service that lets you run your code without

provisioning or managing servers. You can execute code in response to events, such as changes to data in an Amazon S3 bucket or an update to a DynamoDB table.

7. Explain Auto Scaling in AWS.

- **Answer:** Auto Scaling allows you to automatically adjust the number of compute resources in your Amazon EC2 Auto Scaling group. It helps in maintaining application availability and allows you to scale your Amazon EC2 capacity up or down automatically according to conditions you define.

8. What is Amazon RDS?

- **Answer:** Amazon Relational Database Service (RDS) is a fully managed relational database service that supports multiple database engines. It automates routine database tasks such as hardware provisioning, database setup, patching, and backups.

9. How does Amazon S3 provide high durability for stored objects?

- **Answer:** Amazon S3 stores data across multiple devices and multiple facilities within a region to achieve high durability. It redundantly stores data on multiple devices across multiple facilities, providing 99.999999999% durability.

10. Explain the Shared Responsibility Model in AWS security.

- **Answer:** The Shared Responsibility Model in AWS defines the security responsibilities between AWS and the customer. AWS is responsible for the security "of" the cloud (hardware, software, networking, and facilities), while customers are responsible for the security "in" the cloud (data, identity and access management, applications, etc.).