

1. What are some applications commonly hosted on the cloud?
2. How CloudWatch is used to monitor the performance.
3. Define cloud computing
4. How SQS is implemented in AWS
5. What are cloud service models?
6. What are the 5-4-3 principles of cloud computing?
7. How are EC2 instance types categorized?
8. How can AWS SDK (Java) be used to manage EC2 instances?
9. List three features of Amazon SQS.
10. Differentiate between standard and FIFO queue
11. How can the AWS CLI be used to interact with Amazon SQS?
12. What is Amazon Kinesis, and how does it enable real-time data streaming and analytics in the cloud?
13. What are the primary AWS CLI commands for interacting with Amazon Kinesis, and how can they be used for stream management?
14. Provide a brief overview of Amazon Simple Storage Service (S3) and its role in cloud storage. in 2 or 3 lines

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Common cloud-hosted applications include web servers, databases, email services, and business applications like CRM and ERP systems.

CloudWatch monitors AWS resources and applications' performance by collecting and tracking metrics, setting alarms, and providing insights through dashboards.

Cloud computing is a technology that enables on-demand access to a shared pool of computing resources (e.g., servers, storage, databases) over the internet.

In AWS, Simple Queue Service (SQS) is implemented as a managed messaging service that decouples the components of a cloud application.

Cloud service models include Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).

The 5-4-3 principles of cloud computing: 5 essential characteristics, 4 deployment models, and 3 service models.

EC2 instance types are categorized based on their target application, such as compute-optimized, memory-optimized, storage-optimized, and GPU instances.

AWS SDK (Java) can manage EC2 instances by providing APIs for tasks like launching, terminating, and configuring instances.

Three features of Amazon SQS include scalability, reliability, and the ability to decouple the components of a cloud application.

Standard queues in Amazon SQS provide at-least-once delivery, while FIFO (First-In-First-Out) queues ensure exactly-once processing and maintain message order.

AWS CLI interacts with Amazon SQS using commands like `aws sqs create-queue`, `aws sqs send-message`, and `aws sqs receive-message`.

Amazon Kinesis enables real-time data streaming and analytics by collecting, processing, and analyzing data streams at scale.

Primary AWS CLI commands for Amazon Kinesis include `create-stream`, `put-record`, and `get-shard-iterator` for managing data streams.

Amazon S3 is a scalable and durable object storage service, offering a simple web interface for storing and retrieving any amount of data from anywhere on the web.