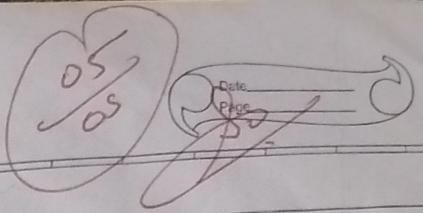


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Assignment - 1

Q1 Use S3 bucket and host video streaming.

→ The step by step procedure is as follow

Step 1 - Create an S3 bucket

- Login into your AWS management console.
- Navigate to S3 under storage section.
- Click create Bucket and provide a unique bucket name.
- Configure permissions.
- Complete the bucket creation process.

Step 2 - Upload video files on S3

- Click on your bucket name.
- Use the upload button to add your video file.
- Set the access control flow to allow read access.

Step 3 - Enable static website hosting

- Inside the S3 bucket, go inside the properties.
- Scroll to static website hosting section and enable it.
- Set the index document and provide an optimal error document.

Step 4 - Configure bucket permissions to allow public access.

Step 5 - Create an index.html file containing a video player using video tag.

Step 6 - Upload this index.html to your S3 bucket.

Step 7 - Access your hosted video. Your video would be playable in embedded HTML Player

Q 2 BMW and Hotstar case study using AWS

- ① BMW uses AWS to power its connected car system enabling real time data processes, over the air updates and personalised driving experience. AWS's global infrastructure helps BMW manage large scale vehicle data allowing predictive maintenance and enhancing customer experience through features like traffic info, parking availability. It provides scalability and security ensuring that BMW can detect issues efficiently.
- ② Hotstar a leading streaming platform relies on AWS to manage massive traffic spikes during live events like IPL, where millions of users connect simultaneously. AWS helps hotstar scale elastically utilising EC2 instances, CloudFront and S3 storage. It provides low latency, high quality under streaming. This ensures a smooth service during peak loads enabling hotstar to handle over 25 million users.

Q3 Why Kubernetes and its advantages and disadvantages Adidas case study.

→ Kubernetes automates the deployment scaling and management of containerized application making it popular choice for orchestrating microservices.

Advantages

- a. Automated scaling and self healing
- b. Supports multicloud and hybrid deployment
- c. Efficient resources usage through containers orchestration

Disadvantages

- a. Complexity in setup and operation
- b. Requires steep learning curve for configuration

Adidas uses Kubernetes to manage its E-commerce infrastructure, which involves pe deploying 100's of microservices.

Kubernetes enables Adidas to handle peak traffic during product launches by scaling services automatically and distributing load efficiently. The Agility and scalability have helped adidas strengthen its digital operation and improve user satisfaction.

Q4 What is Nagios and How its used in E-services?

- Nagios is an open source monitoring tool used to monitor the health and performance of IT infrastructure. It tracks system metrics like CPU, memory, disk usage, alerts administrators of potential risks before they affect the users. In E-services, Nagios ensures uptime and performance of critical online services by monitoring service health, detecting failures and automatically triggering failure actions. This proactive approach helps to minimize downtime and maintain services availability, making it a critical tool for maintaining seamless user experience.