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DISA

Roll No: 44

Adv DevOps: Assignment No 1

04
05

Q:

use S3 buckets and host video streaming.

→ To Host video streaming using S3 bucket on AWS, you can follow these steps.

Steps:

1) Login to AWS console

- Go to AWS management console
- Enter your login credentials.

2) Create an S3 bucket.

- In the console, Search for S3 in the search bar and select S3 from the result.
- Click Create bucket.
- Give your bucket a unique name ("My-video-streaming-video bucket").
- Choose a region (closer to your audience).
- Scroll down and uncheck Block all Public access.
- Confirm by checking the acknowledgement box.
- Click Create bucket.

3) Upload your video file to S3.

- Click on your newly created bucket.
- Click the upload button.
- Add your video file from your computer.
- Click Upload to start the upload process.

4) Set Permissions for Public Access.

- Once the video file is uploaded
- Select your video file in the S3 bucket.
- Use the Actions dropdown and choose make public
- Confirm the action by clicking make public again.

5) Get the video URL

- After making the file Public, click on the video file.
- You will see a URL for the video under Object URL. This is direct link to your video.
- Copy this URL

Conclusion: Above method for bucket policy does not work

I personally used this method:-

- Go to Permission tab of your bucket.
- Click on the Permissions tab for my bucket.
- Edit bucket Policy
- Add the following Policy.

json

{

 "Version": "2012-10-17",

 "Statements": [{

 "Sid": "Public Read Get Object",

 "Effect": "Allow",

 "Principal": "*",

 "Action": "S3: Get Object",

 "Resources": "arn:aws:s3:::my-video-streaming-bucket/*"

}

Testing Public Access → final Step : After making ur ~~video~~ public.
Paste the URL in web browser to see video plays.

Personalized Recommendations: Hotstar uses AWS's machine learning tools to suggest content to users, making their viewing experience more enjoyable.

Key AWS Services used by BMW and Hotstar.

- Compute: Amazon EC2, Amazon Lambda
- Storage: Amazon S3, Amazon EBS
- Database: Amazon RDS, Amazon DynamoDB
- Networking: Amazon VPC, AWS Direct Connect
- Analytics: Amazon SageMaker, Amazon Rekognition

Born BMW and Hotstar Show how AWS can be valuable resources for different types of business. By using AWS, they have been able to innovate, grow and provide great experiences for their customers.

Q.3
- why Kubernetes and advantages and disadvantages
Qb Kubernetes. Explain How adidas uses Kubernetes.

Answer:

Kubernetes is popular because it simplifies the management of containerized applications. It automates tasks such as deployment, scaling and monitoring making it easier for organizations to manage their applications in a cloud environment.

Advantages of Kubernetes.

- 1) Portability
- 2) Scalability
- 3) Reliability
- 4) Efficiency.

Disadvantages of Kubernetes.

- 1) Complexity
- 2) Steep learning curve
- 3, Resource intensive
- 4, management overhead.

Qb How adidas uses Kubernetes.

adidas has adopted Kubernetes to enhance its IT infrastructure and improve its resource utilization needs.

- 1) faster Application Development
- 2) Operational Efficiency.

3) Scalability for Demand.

4) Encouraging Innovation.

Q.4 What are Nagios and Explain How Nagios are used in E-Services.

→ Nagios is an open-source monitoring tool that helps organizations keep track of their IT infrastructure including it provides a way to ensure the system are running smoothly and alert users if any issues arise.

Key features of Nagios:

1) Monitoring

2) Alerts

3) Reporting.

How Nagios is used in E-Services.

Nagios plays a vital role in the operation of e-services by ensuring the online systems are reliable and efficient.

1) Infrastructure Monitoring

2) Service Availability

3) Performance Management

4) Incident Management

5) User Experience Monitoring