



Vivekanand Education Society's Institute of Technology

(An Autonomous Institute Affiliated to University of Mumbai)

Department of Information Technology

A.Y. 24-25

Advance DevOps Lab

Experiment No.	Assignment-1
Title.	
Roll No.	40
Name	Swasaj a. Patil
Class	D15 A
Subject	Advance DevOps
Lab Outcome	LO1: To understand the fundamentals of Cloud Computing and be fully proficient with Cloud based DevOps solution deployment options to meet your business requirements.
Signature:	
Grade:	

Adv. Depops

Assignment no: 1

Use S3 bucket and host video streaming steps:

Create an S3 bucket

- Sign in to your AWS management console
- Go to S3 and click create bucket
- Provide a bucket name (globally unique) and select the region.
- Uncheck all Block all public access required for public video hosting.
- Click create bucket.

Upload video files to the bucket.

- Open the newly created Bucket.
- Click upload and then add files to your video files.
- Click upload to store the video files in bucket.

3.] Set permissions for the bucket

- Go to permissions tab.
- Under Bucket policy, create a policy to allow access to the video files.
- Change Policy

4.] Enable static website Hosting

- In S3 console, select your bucket and go to the properties tab
- Scroll down to the static website hosting

- Choose "Use this bucket to host a website."

- Enter index.html as index document and click save changes.

5.] Set Permissions:

- After enabling static website hosting ensure that your files are publically accessible.
- Go to permissions tab
- Unblock relevant options to allow public access.

6.] Access your video:

After completing these steps, you will see an endpoint URL under static website hosting.

- Copy this endpoint and paste it into a web browser.

BMW and Hotstar case studies using AWS:

Both BMW and hotstar have leveraged AWS to enhance their operations, improve scalability and innovate their respective services. Below is a detailed discussion of how each organization has utilized AWS.

BMW case study:

- Cloud Data Hub: Migrated data lake to AWS, processing over 10TB of data daily from 1.2 million customers.

It uses AWS to build the BMW cloud data Hub, which centralizes vehicle data and support new innovations such as autonomous driving.

- Hotstar: is one of India's leading video streaming platform, relies heavily on Amazon Web Services to deliver high quality streaming experience

Key AWS services used:

- Amazon CloudFront
- Amazon EC2 and Autoscaling
- Amazon S3 and elastic Load Balancing
- Amazon Cloudwatch.

Using AWS, hotstar has scaled to handle millions of concurrent viewers during peak times, ensuring a reliable, uninterrupted streaming experience. AWS allows hotstar to scale efficiently and maintain high quality service particularly for live events with unpredictable traffic.

Q.3] Nagios is an open source monitoring tool designed to monitor and alert system administrators about the status of IT infrastructure, including servers, networks and applications. It helps ensure that systems, services and applications are running smoothly by continuously checking their availability, performance and overall health.

Key Features:

- Monitoring of all infrastructure components
- Real time alerts
- Customizable Plugins
- Web based interface
- Log management.