Aditya Dulay Disc - 10 Ad Devops. QI) the S3 bucket and host Video Streaming To use Amazon S3 bucket and host video streaming follow below steps:

(i) Create an 53 brucket with without public access:

(ii) Upload video files:

(iii) Set Bucket Policy for Public access:

(iv) Navigate to permission of the course. Navigate to permission of your bucket.

Edit the Bucket Policy to allow public access

Example:

"Version": "2012-10-17"

"St. "": [ "Statement": [ "Sid": "Public Read Fret Object"

"Effect": "Allow"

"Principal": "\*"

"Action": "83: Get Object",

"Resource": "arn: aws: S3:::: bucket-nament (iv) Junisate Use Cloudfront for Streaming

Create a Cloudfront distribution

Choose your \$3 bucket as origin

Set the distribution behaviour to streaming

(v) Integrate into your frontend

· add srl="https://www.s3.amazonaws.com/ video-file.mp4" Discuss BMW and Hot Star case studies using AWS. Anon -> BMW case study using AWS: BMW uses AW& for t building connected can services and improving trustome experiences
AWS enables BMW to collect, store & generated by their vehicles providing real time data processing capobilities. Key uses: · Connected Drive Platform: 83 Dynamo DB,
Amazon Kinesis for storage & processing
real time data. . Data Lakes: It was S3 bucket to build date lake for storing sensor data · A1/192 for autonomous driving - It uses Amazon Sage Maker to debelop models Scalability & Global Recech: BMW scaling It uses AWS Ito Scale dynamically and ensure smooth streaming churing high-toaffy events like fiche Indian AWS helps hotstar in:

· Auto-Scaling: During major events, Hotsten needs:

to handle million of honoursent users. AWS ECZ

auto Scaling automatically adjusts computing

power based on dimbnd. · Content Delivery: AWS cloudfront can be wood for video content delivery.

· Serverless Computing: Hotston uses JAWS lambels for event driver processing of line streams a monitoring. 4 monitoring. for the resources they use: Why Kubernetis and its advantages and disadvantages Kubunitis (K85) is an open source platform designed to automate deploying, scaling, and operating containerized application. If is widely adopted due to its orchistration capabilities, enabling businesses to manage large-scale distributed systems efficiently.

Advantages of Kubernelis.

1 Scalability: K8S enables horizontal scaling of applications based on real-time truffect Ensuring consistent performance even during failur and secovry. Can distribute workload
to other nodes if a nodes fails.

3. Lordan Dechestration It manages
complie containerzed application across.

multiple hors including deployments, Scaling and resource optimization: access varios dond, provided making it applications highly provided making it applications highly 5 self healing: 18's personsilically restort factor of containers, kill containers that don't responsite of frealth checks Disadvantages of K83. 1. Compler setup: K85 has a steep learning 2 lesoure intensive: recurs significant hardwar repoures. 3. Management overhead: Managery 485 clustery across environment can be 4 Servets configuration: ks & region. careful scirity configuration - Misconfiguration ) may upose sensitud data or allor unathorized accord How Adidas uses kulumetes Adidas uses kulumetes to modernize its infrastructure and manage its high faffice e-commuce platform. Ky uses include! Microsenice Architecture: Adidas suns its e-commune microservice on kuleentle clusters, enabling & camper 3 caliny and o CI/CD Pepeline : Kuleunetes allows Adidas

to implement continuou integeration and delivery pipeline reducing the time needed to release new features

Auto Scolingi Adidas coan handle traffic spike
during sales events and new product blaunches

by leveraging kulevenetic auto-scaling

Multi-Cloud Strategy Adidas wors kuleunele

for a multi-cloud architecture, running
workloads across different cloud providers

to insure high availability and fautt

blumber What is Nagios and how it is used in E-genicel what is Nagios? Magios is an open source monitoring system used to monitor network services, applications, applications, and IT infrastructure. It provides ocal-time about and with cations when issues like services outages or performance degradation occur. Nagios is used to identifying and rest wing problems in complem of invisorments
before they afted end isers?

Tealures of Nagios

Real time monttoring: Nagios monitors genus
welvoork during and survives like HTTP SIMTP

Abouts and Notification: It sinds about Via mail or 5M5 where there is an issue, helping II teams resolve problems before they esculate

Performance graphry: Naglos provide historical data graphs enabling organization to trado rends and detect bottlenecks and pulament · Entirellity: Nagios supports plygin and custom scripts, making it adoptable for specific montoring new: How Nagios is and in E-Sentes: In the content of e-services ( such as web service, e-commune platform, or SaaS applications) is avoid for: 1. server health monitoring: plagios montos CPU loads, hatte for web givers and application genres of issurial services like HTTP My5QL& APIS
ensury uninterrepted across to e-service. 3. Delavor monitory: It monitors databan 4. Inddent Response: Then an issur arises Nagio and about to the support team reducing downtine 5. Espactur Problem detection: By monitoring
the sunderly infrastructure & service
performed Nagios helps detect problems late they impact asers, unprounder quality of e-service FOR EDUCATIONAL USE