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Assignment no:-

Ans

use 53 bucket and host video streaming

- · go to Aws console Jopen 53
- · Click on create bucket
- · Enter a unique name and select your region
- be accessed by anyone)
- · Click create bucket

2. upload your video files

- * Inside your newly Greated bucket, circk on upload
- · Select the video free you wont to stream
- · After uploading, make sure to set the fire to public by clicking the video TACTION -> make public

3. get the video UR Line

- get the object up to
- Example: https://your-bucket-name.s3. omozonows.

4. Create a simple HTML page to Stream the video

- · create a basic HTML file (Tike index n+ml) using code « video width = "600" controls?
 - Your browser does not support the vide of age

5. open the HTML file

and the video will stream from your so bucken



Q-2 Ans Discuss BMW and Hot stor case studies using Aws
BMW uses Aws to power its connected car platform which
supports milions of vechicles globally the platform collects
Process and analyzes data from car in real-time vechicle
diagnostics, predictive main tenance and navigation enhance
by BMW includes-

- the 1989er volume of vechicle data
- structured and unstructured data
- · Aws Lambda to process real-time data stream

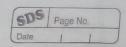
connert milens of car scamlessing, Crycial For service

MotStax case study with Aws

in user load

Hotstar, one of India's largest your coming play form, utilized
Aus to handle massive traffic surge dyring live events such
as (IPL) where it sees mileons of concurrent viewers.
Amazon cloud from for fast content delivery via edge location
ensuring smooth streaming experiences even high-demand event
amazon Auto scaling to dynamically scale infrastructure
in year time, automatically handling the increase

- of on-demand video content
- · Amazon RDS to manage their database news



Q.3

ans

why kubernetes and advantages and disadvantage

of kubernets Explain How addidas use kubernetes

kubernetes is an open-source platform used for

automoting the deployment scaling, and manage

ment of contrinterized application It provide

a framework to run distributed sustem resilienty,

handling the complexities of infrastructure so developer

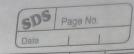
can focous on writing code

Advantages of kubernetes

- 1- Automated operations:
 - e kubernetes automates deployment, scaling, and updates, reducing manual effort and operational burden
- 2. Scalability:
 - + Automotically scales application upor down on
- 3. High Availability
 - ensures fourt to resonce and serf-hearing containers when they form and distributing them accross multiple nodes better

4. Pxs Poxtobility

or hybrid environment



Disadvantages of kubernetes

- i. Complex sctup and learning curve

 kubernetes has a steep learning curve and can
 be challenging to set up, configure and manage
 without a strong understanding of containerized
- 2 · Overhead in small Deployment

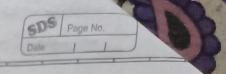
environments and orchestration

- introduce unnessary complexity, overhed, and costs
- 3. Resource Intensive
 - of small-scale workloads

HOW Adidas 4ses kybernet of

Adidas, a global spartwear brand, embraced kubernetes to embraced the scalability and restriant of its application kubernetes enable Adidas to met the growing demand for its c-commercine service while ensuring smooth aperation across its digital patform

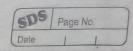
- 1. microservice Architecture
- esperes handle their scaling and hearth chell



3 fastes Deployment (4(1) e " Kuberners allow Addas development teams to deploy new features or updates more prequenty and reliably this agility helps them stay compted fast moving retail industry

4. cost efficiency

- objecting resource and efficienty
 managing worklooms, kubenetes help adides offiniting
 costs realted to infrastructure this particularly usecful
 during vorying demand cycles
- in E-services and explain how Magios are used
- Ans Magios is an open-sources monitoringtool used for continous monitoring of It infrastructure applicated and services It help organization detect, diagonse, and resolve issues, ensuring that exitions sustem and process are always operational
 - 1. service uptime monitoring
 - · magios checks the availability of esstial service (web server, database / APIS) to ensure they are operational if a service goes down it immediately triagers overts
 - 2 . Per formance metrics tracking
 - usage memory consumption, network traffic and dis



potential service distruption

3. Real -time Alexis

e sends instant alexts (via email, sms, other channel)
to system administrators or IT teoms when
(xi tical services fail or predefined thresholds are
breached, allowing quick response to issues

4. security Monitoring

Tracks jogs and identifies security breaches, unusal activities or vulnerabilities, ensuring the e-services platform remains secure from cyberattacies

5. Reporting and SLA compliance:

Performance and failures helping bysinesses
maintain service level agreements and improve service
quality