Q1)   Use S3 bucket and host video streaming

->   1) log into 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 results.
· Click create bucket
· Give your bucket a unique name.
· choose a region
· scroll down and uncheck Block all public access
· confirm by cheking the acknowledgement box
· Click create bucket.

3) upload your videos file to S3

- Click on your newly created bucket
· click on the upload button
· Add your video file from computer
· click upload to start ~~file~~ the upload process·

Q2) Discuss BMW and Hot Star case studing using Aws.

→ BMW : A connected driving Expreince ⊕BMW is a leader in car technology and Aws has helped them a lot in creating connected cars
• connected cars features : BMW has developed features like remote diagonastic over the air- updates and real- time traffic ~~over~~ the info Aws provides the necessary tools and infrastructure to make the features. works.
• Improving customer experience : They use Aws to enhance the customer internet with their cars for example ⊕BMW has added voice activated assistance and personalized suggestions using services like Amazon lex.
• Better manufactering : BMW uses Aws to improve its manufactering By analyzing data from machines they can find problem early and increase efficiency
• A streaming revolution :- Hotstar is India's biggest video streaming platforms offering a huge range of movies, TV shows and sports Aws has been key of Hotstar sucess helping them.
• Manage huge traffic : During big events like IPL many people watch at once Aws helps hotstar handle this stage in traffic without slowing down.

set permission for public Access.
· Confirm the action by clicking make public again

select the video url:

· After making the file public click on the radio file
· you will see a url for the video under Objet URL

6.) Edit the Bucket policy

```
{
   "version": 2012-10-17",
    "statement": [
   {
       "sid": PublicRead Get Objet"
       "Efect": "Allow",
       "Principal": "    ",
       "Action": " S3 GetObjet'
       "Resource": " arn: aws: S3:: video-
             bucket /*"
   }
   ]
}
```

· Quality streaming : Aws services like Amazon kinesis ensures that users highly stream quality.

· Personalized Recommendation :- Hotstar uses Aws machine learning tools to suggest congents to users making their viewing expidence more enjoyable

key AWS services :-

· Compute : Amazon EC2
· Storage :- Amazon S3, Amazon EPS

Q3) why kubernets and Advantages and disadvantages of kubernates. Explain How adidas uses kubernates

-> kubernets is popular because its 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 :- Application can be moved easily between diffferent environment without major changes.

2) scalability :- kubernetes can automatically scale apps up or down based on traffic and demand

3) Reliability :- It features self-healing capabilities meaning it can restart failed containers and balance workload.

Disadvantages of kubernates :-

1) complexity :- It can be complicated to setup and manage espically for those new to container

2) stop learning curve :- Requires time and knowledge to fully understand and utilizes its features.

3) Resource Intensive :- It may require more computing resources than simpler solutions.

Adidas has adopted kubernetes to enhance its IT infrastructure and improve its ability to respond to market needs.

04) what are Nagios and Explain how Nagios are used in E-services?

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