Name: Rahshit Kuwas Sharma Class: DISC Roll No: 49 Assignment - 1 gl. Use 53 bucket and hast video streaming. 1. Go to the S3 services in AWS website. Click on create bucket. Give a name to your bucket. It is better black all public access. This will proved unauthorized access Keeping setting to default, exeat the bucket. 2. Go to the permissions tab In the created bucket. Edit the "Block public access settings". Add a bucket policy to allow public read access. "Vension": "2012-10-17", "Sid": "Public Read Get Object" "Action": "S3: Get Object", 3. Go to the objects tab in your bucket. Click on "Upland" and select the video file to be hasted. Ensure the video is in proper format (eg. MP4) 4. As the video 95 being uploaded, Search fox Cloud Front on the services tob and open it in a new tab. **Sundaram** FOR EDUCATIONAL USE

5. On the left pane, under security, you will find oxigin occess. Click on of, click on Identities. Click on Greate origin acces identity. Give the identity a name ad 6. Go to create a Cloudfront distribution. In the origin field, select the 53 bucket where video is uploaded. under oxigin Access, select legacy access identities. Here, under Oxigin access identities, select the identity that you have exected. Under bucket policy, select update! 7. In défault cache behaviour, select Rodirect HMP to HTTPS. Enable security protections to provide a layer of security. Finally click on excale distribution S. To access, copy the domain name of your distribution 9. Go to the 53 bucket ad click on the name of the video you uploaded. copy the key. distribution and video respectively to make the final link of the video streamed. (domain name of distribution) / (key of video)

92. D'isauss BMW and Motstoure case studies using AWS. BMW case Study BMW utilizes Aws to enhance 9ts digital services and Emprove apenational effectioncy. The automotive grant leverage cloud computing fox various applications, including data analytics, machine learning and Tot. Key points: 1. Connected cars: BMW uses AWS to process data from 9ts connected vehicles, enabling real time analytics and insights. The data collected helps in predictive maintenance and enhancing the overall customen expensence 9. Data Management: AWS provides BMW with scalable storage solutions for managing langer volumes of data generated by vehicles Sporvices like Amazon S3 and Amazon Redshift allow BMW to store, analyse, and Isualize data officiently. 3 Innovation and Development: The cloud envisonment fasters innovation by allowing BHW to quickly develop and text new applications. AWS's machine leating services enable RMW to integrate advanced features, such as personalized delling experiences. Notstan Case Study Motstar, now part of Disney +, is a leading stream? service. In. India that uses flus to deliver high quality (Sundaram)

content to million of wers.

Key points

1. Scalability:

During major events, such as cricket matches, Hotstan experiences significant traffic spikes. Aws allows the platform to scale dynamically to handle willions of concurrent viewers without compromising performance. Services like Awazon Ec2 and Auto scaling ensures that resources one allocated effeciently based on demand 2. content Delivery

Motstar employs Amazon Cloud Front for content delivery ensuring fast and reliable streaming emperiences. This reduces latency and improves usen starfaction, especially during high-traffic periods.

3. Data Analytics:

fotstar leverages AWS analytics services to understand siewer behavior and preferences.

Insights gained from data analytics help In content seconsmendation and targeted advertising, enhancing user engagement.

4. Cost Management

By using Aws, Hotstan can optimize its operational costs through a pay as you go model, allowing the service to allocate budget effectively based on usage.

Conclusion

Both the companies illustrate how aws empaners



bussiness to innovate and scale effectively. BMW focuses on enhancing vehicle connectivity and operational efficiency, while Hotstan prostitizes user experience through scalable streaming and data analytics. 88. Why Kubernetes and advantages and disadvantages of Kubernetes. Explain how adidas uses Kubernetes. -> Kubernates is an open source container orchestration

platform that automates the deployment, scaling and

management of containerized applications. It allows developers to manage complex applications with ease Advantages 1-Scalability: Kubennetes can automatically scale applications up or down based on demand, ensuring efficient xesource use. 2. High Availability: It offers built in redundancy and self healing capabilities, automatically replacing failed containers. 3. Resource Efficiency: Kubernetes optimizes resource allocation across clusters, reducing costs and improving performance 4. Portability: Applications can run consistently across different environments due to the abstraction of underlying enfrastructure. 5. Microservices Architecture: It supports microservices allowing applications to be broken down into smaller, manageable components, that can be deployed independently Sundaram

O's ad vantages:

I complexity: Kubernetes can be challenging to set up and manage, sequising a steep learning curive and expensive.

De Idead for smaller application.

3. Debugging: Trouble shooting issue in kubernetes environment can be complex due to its distributed ?

Adidas Case Study:

Adidas leverages Kubernetes to enhance its digital infrastructure, particularly for its e-commerce ad digital applications.

Jeg uses

to manage microsenvices for the online store, enabling suppled development and deployment cycles.

a scalability During Peak times: The platform scales dynamically during high traffic events, such as product lounches on sales, ensuring that website remains is responsive and available.

3. CIJCO Integration: Kubennetes supports Adidas's continuous Integration and continuous delivery packets, allowing for automated testing and deployment of new features.

34. What wie Nagios and explain how Nagios are used

Nagios is an open source monitoring system that enables organizations to monitor their IT infrastructure including servers, network devices and applications. It help ensure that systems are running smoothly by providing real time monitoring, alenting and reporting capabilities. Nagios can detect issues such as downtime, performance degradation and configuration

Nagios in E-services

1. Infrastructure Monitoring: Nagios continuously monitors servers, databases and network device in an e-service environment to ensure they are operational.

2. Performance Monitoring: It tracks various performance metrics such as ceu load, memory usage, disk space and network traffic.

3. Alerting and notifications: Nagios can send dents via email, SMS or other communication methods when 9t detects issues. This enables rapid response to

outages or performance problems.

y Service Monttoxing: It monitoxs specific e-services such as web applications, APIs and email servers to ensure they are functioning correctly. Nagios can check the status of these services and ensure they are sesponsive.

Sundaram

5. Log Mon9toring: Nagios can analyze log files for error messages or anomalies, providing Prisights Into potential issues within the e-services. 6. Integration with other tools: Nagios am be entegrated with other monitoring and management tools, allowing for comprehensive oversight of the IT environment and enabling more sophisticated alerting and reporting mechanisms. 7. customizable Doshboards: It provides doshboards +hat give a visual overview of the mongtored infrastructo helping teams to quickly ages health of their e-services. By using Nagios, e service providers can ensure high availability and performance of their applications, enhancing user satisfaction and trust in their services.