

THE RESTRICT OF START IS NOT SECTOR PICE NO. 25 Step 3: In Step up Video Streaming: 1. Use Amazon cloudfront (a) Set up a cloudfront distribution to serve you video content more efficiently. (b) Coint the doubfront origin to your 53 buck (c) Configure caching bet behaviours based on 2. Set protocol (a) Choose whether to use HLS (HTTP live streaming) or DASH (Pynamin Adaptive Streaming over HTTE) (b) Use AWS Media Convert to convert your vide files into streaming - compatible bormats it neces Step 4: Integrate Video Player 1. Select a video flager. (a) Choose a web video player - that supports Streaming (eg video js, JW Clayer). 2. Embed the Clayer. 191 Use HTML to embed the order player on your website (b) set the source of the video to your aboutfront DRL or S3 VRL Step 5: Jest your setup Access website & play video to ensure werything Gundaram

jeuss RMW & Hot Star Case Studies using AWS. BMW Case Study on AWS EMV used qws to accelerate innovation, enhance, customer experiences and create data - driven so services.

Their use case centers on the BMW Connected Drive & BMV Cloud Data Hub. Dey Components 1. BMW Connected Drive: Connected Services: AWS allows BMW to offer real-time connected services (including in sor navigation, tetenaties & driver assistance. willions of requests daily analyzing large amounts of data generated by vehicles in Real-time. 3 Scalability: The use of amazon S3, Amazon Ec2, and other AWS services enable BMW to scale infrastructure based on growing number of corrected vechile 2. BMW Cloud Pata Hub: I Global Pata Clathorm: BMW built its Cloud Pata Ituli on AWS to consolidate manage & analyse rechiles & wer data scross the globe globe. 2 Amazon 53 & Amazon Redshift: Byw uses Amorgon 53 for scalable storage & amorgon redshift for analysing vast datasets related to rehile performance FOR EDUCATIONAL USE

Benefits: 1. Reduced Revelopment Time 2. Global Scale & Anidability Availability 3. Est-effectiveness. Hotstar (Disney + Hotstar) & Case Study on A Hotstar, one of India's largest streaming platform to stream high definition of vido to millione of concurrent users especially during live events such as IPL cruket matches. Their main challenge was scalability during the wents, where millions of users rould be streaming simultaneously. Dey Confinents & 1. Scalability During peak events · Plastie Compute (Amazon FC2) : Hotetor uses Amazon FC2 for elastic , scalable computer power especially during peak streaming wents like IPL a cricket matches. 2. Auto Sealing allows hotetar to dynamically adjust its infrastructure based on user demand Sundaram

Why Kulvernetes?

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Why Kulvernetes (often allowinated as KSS) is

Why Kulvernetes (often allowinated to automate open-source platform designed to automate deploying scaling and operating containerned spel Containers help package applications and their de ensuring consistency across environments. Rubernete takes containerization further by orchestrating t rontainers, making it easier lasier to manage large scale distributed systems. 1. Scalability: It allows horizontal scaling of containerized applications, making it lary to har fluctitating workloads & large - scale deployment 2. Es Cortability: Kubernetes is pot platform-agnostic meaning applications cam run on any cloud provider 3. Self Healing: Xulvernetes automatically monitors 1 health of nodes & containers, restarting chailed containers & redistributing workloads to ensure service continuty. tarles such as the termeter and automates various operations tooks such as container scheduling sealing & lood balancing reducing manual intervention & simplying manual intervention undaram FOR EDUCATIONAL USE

lisadvantages: L' Complexity: - Rubernetes has a steep learning were & requires considerable expertise to marage effectively. The system is complen especially for small teams er beginners in container orchestration 2. Overhead: Running Rubernetes adds operational overhead, requiring significant resources to maintain infrastructure like control planes, nodes à networks 3. Montoering & Pelrusging: Debugging issues in kubernetes can be difficult due to its distributed nature. How Addidas uses Kubernetes &? Addidas, the global sportswear company solopted kubernets as a part of its digital transformation yourneg strategy,

especially to mordernize its econor economerce platform

and build a cloud-native infrastructure. Here's how Addidas was kubernetes: Addidas moved from a monotathic application architecture to mireservies using for Rubernetes.

This allows them to develop deploy a scale individual - services independently. TOD EDUCATIONAL USE

2. Scalability -Addida's a ecommerce platform experiences high trug during produt launches or sales. Kubernetes he scale applications on demand by automatically increase decreasing resources based on traffic load. 3. Cloud Native & Multi-Cloud Stragey Strategy Addidas uses kulernetes de maintain cloud-native infrastruture This abstraction layer helps them be cloud agnostic, allowing deployments across multiple cloud providers. What is Nagious? Q.4. Nogious is an open-source so monitoring tool designed to track performance, availability and health of IT infrastructure, including servers network duices, applications & services. It helps administrators identify & resolve issues before they affect and users ensuring continuous service availability Ley beatures : ) Monitoring of infrastructure 2) Herte 3) Reporting & logs 4) Clugins Sundaram

How Nagious is used in E-services? E-services refer to digital ptalforms / services over the internet such as e- e-connerce platforms, online banking or cloud - based applications 1. Montoring Service to Availability : (a) Service Uptime monitoring - It continuously monitors the availability of e-services like web servers (eg. spoche, nginx) (b) Web Application monitoring - 300 echeeks critial components 2. Network Monitoring [9] Tracking network health - It monitors network der devices (nouters, suitches, etc) - bondwidth, weage & response time to ensure good network performance 3. Cerformance Monitoring & 4. Sewrity Monitoring 5. Alerting & Notification Systems