,	Niraj 8. Kothawade DISA-24 Page No.
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	Adv. Devops Assignment & Date
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	Sally David Village, well village
91	Use S3 Bucket to HOSt Video Streaming.
	A see a see in second and a second plant was a second of the second and
V 11 **	Amazon 83 is a scalable object storage service from Aws
	and can be used to host video files for streaming. To
	stream videos using s3, you can follow these steps:
3.000	Upload Videos to 33 Bucket:
	upland your video files to an S3 bucket
	Set permissione for the bucket or specific video files to
	Use AWS Cloud Front:
2.	Aws Cloud Front (CDN Sexusice) can be used to distribute the
, 6	violen content globally with low latency and higher transfer
	speeds
	you can create a cloud Front distribution that points to your
	so bucket and delivers video content officiently.
	Use HIS (HTTP Live Streaming):
3	· Convert your wideo files into a streaming format such as
	HIS, which breaks the video into small chanks and allows
	adaptive bitrate streaming.
	Store these chunks in the S3 bucket and serve them via
	Cloud Front for aptimized streaming experiences.
	Link video in a Players
	Embed a video player in your website or application that
	points to Cloud Front distribution or S3. URL
	The state of the s
-	Benefits:
1.	Scalability 3. Low Latency.
11	Security

Page No. BIME and Hotster case Studies Using AWS BMW case study with AWS: BMW uses AWS to build and scale its data platform to support noxt-gen automotive technologies and digital services Cloud-native Data Platform: BIMW uses AWS S3, Real shift and Athena for storing, processing and analyzing west amounts of rechile date. 2 no at sails solver ever beauty. Connected Cars: AWS 10T Services enable real-time date collection from rehicles, providing insights for both consumers and manufactures was the season and Scalability and flexibility: By using AWS, BMW can scale its infrastructure dynamically based on demand. Al and MI: BMW utilizes AWS Sage Maken for advanced MI workloads, like predictive maintenance and autonomous driving features and a significant to Hotston (orse sterdy with AWS: Hotston (now Disney + Hotston) o lending OTT platform, relies on Aus te stream content to millions of concurrent useus. Scalable Streaming: Hetster leverages Amazon Ers, Aus Lambdo and Auto Scaling to handle unprodictable spikes in traffic, especially during popular sports events (like IPL) Storage and content Delivery: Amazon 58-is used for storing video content, while cloud Front ensures low-latency video delivery to users globally. Data Analytics: Hotster uses AWS EMR and Realshift for real-time analytics to deliver personalized content and targeted ads.

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1	Wiel Description of the Line of the Construction allows Hateler
1-	High Availability: Aw's global infrastructure allows Hotslar
1	to ensure high availability and smooth streaming during
100 = 1	high demand events.
	to separate productions of
63	why kubernetes? Advantages and Disadvantages of
	Kubernetes and How Adidas Uses It
	wing a state to the state of th
1,140	Kubernetes is an open source container orchestration
—	pratform that automates the deployment, scaling and
	management of containerized applications.
	stree-stree entribused as to medicit e rations consequed a
	Advantages of Kubennetes:
•	Scalability: Automatically scales applications up or down
	based on traffic an demand.
• 1	High Availability: Distributes workloads across multiple nodes,
	ensuring services remain available even if individual nodes
	failed the money and medial sections of the control
•	Self-Healing: Kubernetes can restant failed contenieus replace
	them and reschedule workloads automoutically.
•	portability: Since Kubennetes abstracts the underlying
	infrastructure, applications can be deployed across different
	cloud platforms.
16 17	Resource Efficiency: Optimizes the utilization of sessources
	by allocating them dynamically.
	20 times han established in the
	Disadvantages of Kubernetes:
•	Complexity: Kubennetes has a : steep learning wave,
	especially for teams new to containexization.
	Overhead: Running Kubernetes clusters can introduce

Page Na computational and operational overhead Cost: Managing and maintaining a kubeunetes environment. can be occessive intensive potentially reading to increased cloud mets. How Adidous Uses Kubernotes: Adidas levaneges kubernetes for cloud-notive microseivice architecture. They migrated from monolithic applications te microservices to improve agility and speed of delivery. Dynamic scaling: Kubernetes help Adidas auto-scale applications based on traffic, particularly during high demand times like product launches: Faster Deployments: Kubernetes allowed Adidas to stream line, their alon pipelines, reeducing deployment tinnes Resilience: Adiolas levarages kubernetes self healing fratures to minize downtime and improve fault tolerance across services. what is Magies and How is it used in E-services? Magins is an open source monitoring tool used to maniter the performance of 17 infrastructure including sources, applications, networks and services How Magica is used in F-Services: Monitoring System Health Magios monitars the health of server resources (CPU.

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	disk usage, memory) and sexuices (web sexuers, databased
	in e-services, providing dients when performance issues
	orise.
-2·	Real time Alerting.
	Magics generates real time alexts Lemail, SMS, etc.) when
	services or handware suspurces seeach a critical state,
	allowing for quick sessolution.
3_	Event Log Monitoring
0-	For e-services, Nagios can analyze system logs, detecting
	anomalies or everors and notifying administrators about
	potential security or performance issues.
Ц,	Service Availability
	E-services on Nagios to ensure that critical services
	(og payment gateways, web servers) are up and seunning
	2417 Nagios tracks uptime and service availability, helping
	mainterin high availability for useus.
5.	Plugins:
	Nagios uses a wide range of plugine that allow it to
- 0-	monitor various aspects of infrastructure including
	protocole, databases and even cloud services.
6,	
	Magios provides detailed resports and trends on historical
	performance of systems, helping teams to forecast
	potential issues or plan relsource scaling.
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