	Marie Dev Glaonkay Div DISC Roll no.: 12
	Adv. Dev Ops Assignment No: 1
	has been a larger demonstration and the state of the stat
Q1.	Use S3 Bucket and host Video Streaming.
Ans	Steps to host video streaming using an Amazon 53 bucket !
	1. Create a S3 bucket:
	· Sign in to the AWS Management Console and navigate to S3.
	· Click on Create bucket, name it, and choose a region.
	2. Opload Video Files:
	· Open the created bucket and click 'Upload' to add your
	video files.
	· Ensure proper file format for streaming (e.g. MP4)
	3. Set Permissions:
	· Select the video file, go to Permissions', and set the
	appropriate access permissions (public or private).
	4. Enable Static Website Hosting:
	· In the bucker properties, enable static mobile hosting.
	· Set the index document as your video file name.
	5. Access the Video:
	· Obtain the bucket URL and use it in your application or share
	it directly for streaming.
	6. Consider Cloud Front (optional):
	· For better performance and lower latency configure Amazon
	Cloud Front to serve your videos.
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.2	Discuss BMW and Hot Star case studies using AWS.
Ins.	BMW utilized AWS to enhance its digital services and
	improve customer experiences. By integrating AWS INT: Core.
	BMW connected its vehicles to gather real-time data from
	sensors, facilitating predictive analytics for maintenance via
	Tactitioning productive analytics for maintenance via
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AWS Sage Maker. This approach enabled personalized services and improved operational efficiency, leading to higher customer satisfication and brand loyalty. Hot Star, an. Indian streaming platform, leveraged AWS to manage traffic surges during live events. Using AWS Auto Scaling, it dynamically adjusted resources to handle millions of concurrent viewers. Amozon Cloud Front ensured low-datency content delivery, enhancing the viewing experience. Additionally, AWS analytics tools helped Hotstar track viewer preferences enabling personali. personalized recommendations. Both cose studies demonstrate how AWS facilitates scalability, reliability, and enhanced customer engagement across different sectors, ultimately diving driving improved outcomes and user satisfaction. Q.3. Why Kubernetes and advantages and disadvantages of Kubernates. Explain How Adidas uses kubernetes. Ans. Kubernetes is an open-source container or chestration platform that automates the deployment scaling, and management of containerized applications: It lenables developers to manage complex applications efficiently accross clusters of machines. · Advantages of Kubernetes: 11 141 100 WMd 1. Scalability: Automotically scales applications up or down based on demand. 2. High Availability: Ensures application uptime by monages container health and redoploying failed containers.

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	3. Load Balancing: Distributes network traffic evenly across
	containers, optimizing resource use.
	4. Resource Management: Efficiently allocates resource
	among containers improving performance.
	5. Portability: Works on any environment that supports
	containers, from local development to cloud platforms.
	· Disadvantages of Kubernetes:
-	1. Complexity: Steep tearn learning curve for setup and
	1. Complexity. Steep. Hearning Curve 101 3-24
	management.
	2. Overhead: Can introduce additional overhead due to its
	orchestration features.
	3. Monitoring and Logging: Requires additional tools for
	effective monitoring and logging.
	4. Initial Setup: Setting up a Kubernetes cluster can
	be time-consuming and complex.
	Adidas and Kubernetes
	Adidas uses Kubernetes to enhance its e-commerce platform's
	flexibility and scalability. By deploying its microservices
	architecture on Kubernetes, Adidas can rapidly develop
	and deploy and deploy new features, ensuring a seamless
	customer experience. The platform allows Adidas to handle peak
	traffic during events like sales or product launches
	efficiently improving load times and site reliability.
	This agile approach also helps in streamlining operations
	reducing time to norket for new innovations.
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0.4.	What are Nagios ? and explain how Nagios are used in E-Services?
0	Me in open-source monitoring tool that provides comprise
	by stems networks and applications
	It has helps IT teams ensure that services are
	anexational efficient and available.
	To exercise Nagios is primarily used for
	1 S. La Manitorina! tracks server performance, ensuring aptime
	and resource utilization is optimal. Herts are generated
	for CPU usage nemony load, and disk space.
	2 Network Manitoring: Monitors network services and hardwork
	such as routers and switches to ensure seamless
	connectivity and performance.
	3. Application Monitoring: Observes the performance and availability
	of web applications, databoses, and APIs, allowing for
	quick detection of issues.
	4. Alerting and Reporting: Sends real-time alerts via smail
77975	or SMS when service disruptions occur, enabling swift responses
	By implementing Nagios e-service providers can maintain
	t i il tatil I and a see Witimately enhancing
	Customer satisfactions and trust.
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