

# Assignment

Cloud and Virtualization Concepts

20MCA265

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## **Introduction to the AWS Cloud**

The AWS Cloud, developed and maintained by Amazon Web Services, stands out as a powerful and highly popular cloud computing platform. Its comprehensive suite of cloud-based services is designed to empower individuals, businesses, and organizations in building, deploying, and managing applications and services with unparalleled scalability, flexibility, and reliability. A key highlight of AWS is its global infrastructure, strategically placing data centers around the world to ensure low-latency access, high availability, and redundancy. AWS's extensive service portfolio spans various domains, including computing, storage, databases, machine learning, and security, making it a versatile solution for diverse needs. The pay-as-you-go pricing model ensures cost-effectiveness, and the platform's built-in scalability allows for effortless resource adjustments to meet changing demands. Security and compliance are top priorities, with AWS providing robust tools and adhering to industry standards. Thanks to its worldwide presence, adaptability, serverless computing options, AI and machine learning capabilities, and developer-friendly tools, AWS has firmly established itself as a leading player in the cloud computing industry, serving businesses of all sizes and global aspirations.



## **Certificate of Completion**

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## **Job Roles in the Cloud**

The cloud computing industry has generated a wide range of job roles that cater to different aspects of cloud technology. Among these roles, Cloud Architects are tasked with designing and implementing cloud solutions tailored to an organization's unique requirements. They focus on scalability, security, and cost-efficiency, working across platforms like AWS, Azure, or Google Cloud. Cloud Engineers, on the other hand, handle the technical aspects of cloud infrastructure, configuring virtual servers and automating cloud operations through scripting. Cloud Developers create and maintain cloud-based applications, using cloud-native development methodologies and often working with technologies like containers and microservices.

Cloud Support Engineers provide technical assistance, troubleshooting issues, and ensuring the smooth operation of cloud services for customers. Cloud Product Managers lead the development and management of cloud services or products, defining product strategies, collaborating closely with development teams, and guiding product launches. Finally, Cloud Trainers and Educators play a vital role in educating individuals or teams in cloud technologies. They create training materials, deliver workshops, and develop certification programs. Collectively, these diverse roles reflect the broad opportunities and the increasing importance of cloud technology in modern businesses and organizations.



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