<u>ASSIGNMENT</u>

<u>20MCA265-CLOUD COMPUTING</u>

Kubernetes 101 – Kube academy

Course Duration : 15 Minutes

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Submitted To : Ms.Navya Mol K T   **Submitted By : Abhiramy S Nair**

 Asst. Professor AJCE   **RollNo : 04**

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Container orchestration plays a pivotal role in the contemporary landscape of software deployment, particularly in the realm of efficiently managing containerized applications on a large scale. Its significance becomes evident when we examine real-world scenarios where it is indispensable, such as the deployment of microservices and the assurance of high availability, load balancing, and automated scaling.

To embark on a successful journey with Kubernetes, it is essential to establish a firm grasp of its underlying architecture. This involves familiarizing oneself with critical components like nodes, pods, services, and controllers within Kubernetes, and recognizing their paramount importance in the orchestration of containers. This foundational knowledge is a prerequisite for harnessing the full potential of Kubernetes in container management.

Before delving deeper, let's address the fundamental question of whether container orchestration is a necessity. The answer is unequivocal: container orchestration is indeed indispensable. Its role is to streamline and automate the management of containerized applications on a substantial scale. Without orchestration, the process of deploying and maintaining containers across a multitude of hosts would be marred by complexity, error-proneness, and the burden of manual intervention. Container orchestration, however, is the solution that ensures applications are distributed, scaled, and managed seamlessly..

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