



Koneru Lakshmaiah Education Foundation

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Department of Electronics and Computer Engineering

Report on Industry Faculty Orientation Lecture

ECM department organized Industry Faculty Orientation lecture for faculty on “Cloud Application Deployment using Kubernetes and Docker” on 23-11-2022(Wednesday) in online mode at K L Deemed to be University, Vijayawada.

Mr T Maheedhar, Senior Product Engineer, Temenos acted as resource person for this orientation lecture. He is prominent alumni of KLU from CSE department. In this lecture he delivered about docker terminology and about Kubernetes. He explained in terms industry perspective and how industry using docker and Kubernetes.

The screenshot shows a Cisco Webex Meetings interface. The main window displays a presentation titled "Docker Terminology". The presentation content includes a list of topics: Docker file, Docker Images, Docker Hub, and Containers. Below the list is a diagram illustrating the Docker workflow: Docker File (represented by a folder icon) leads to Docker Image (represented by a camera icon with a "BUILD" label), which then leads to Docker Container (represented by a server icon with a "RUN" label). The Webex interface also shows a top menu bar with options like File, Edit, Share, View, Audio & Video, Participant, Meeting, Breakout Sessions, and Help. A top status bar shows the meeting ID "CR094" and the host "maheedhar". A right sidebar displays a list of participants, including "CR094 Host, me", "maheedhar Cohost", and several other participants with their IDs and names. At the bottom, there is a control bar with buttons for Unmute, Start video, Share, Record, and other meeting controls. The Windows taskbar is visible at the very bottom, showing the search bar and various application icons.

What is Kubernetes ?

- ◆ Kubernetes is an open-source container orchestration system for automating software deployment, scaling, and management. Google originally designed Kubernetes
- ◆ It is used for automating the deployment, scaling, and management of containerized applications.
- ◆ Automatically scales control plane instances based on load, detects and replaces unhealthy control plane instances, and it provides automated version updates and patching for them.

Traditional vs Containerized model

	(a) Traditional	(b) Hypervisor	(c) Container
Application		App	C1 App, C2 App, C3 App
Host OS		Bins/Libs, Guest OS	Bins/Libs, Bins/Libs, Bins/Libs
Physical Server			

Mrs Dr PSG ArunaSri, HoD-ECM, provided special appreciation to the resource person. All the organizers monitored the event. All the participants satisfied with the hand's session . Total 60 faculty participated from various departments in the event.

Dr.PSG ArunaSri

HoD-ECM