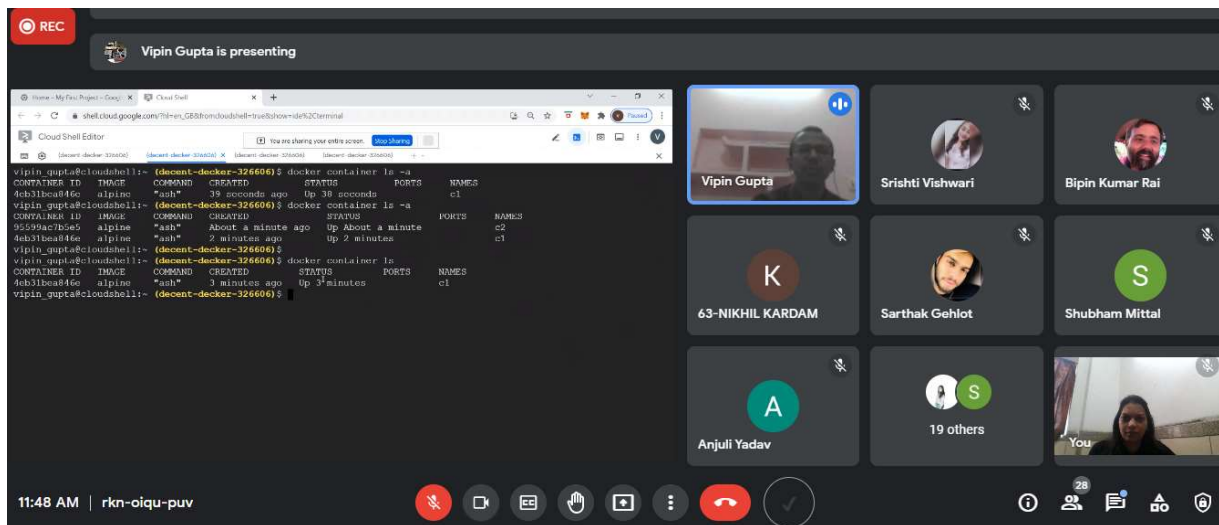


Workshop on "Google Kubernetes Engine (GKE)"

IT Department Organized a Workshop on "Google Kubernetes Engine" on 26/11/21 from 11:00 am to 1:00 pm. Total 45 students from 3rd year IT and 4th year attended the workshop. The workshop was conducted in online mode and it was coordinated by Ms. Shivani Sharma, Assistant Professor, IT Department.

Industry Expert Mr Vipin Gupta, Director U-Net Labs Private Ltd Chandigarh focused on container technology, docker and kubernetes. The resource person gave a clear insight and hands on knowledge of implementing 3 node kubernetes cluster in cloud. He also demonstrated on how to deploy applications using Kubernetes. The session was interactive got the practical knowledge of the topics.



REC

Vipin Gupta is presenting

```

kubernetes clusters - Kubernetes | Cloud Shell
shel.cloud.google.com/?hl=en_GB&from=double-click&show=def32terminal
Cloud Shell Editor
You are sharing your entire screen. Stop sharing

webserver-9c9b7cd9f-xb1hc 1/1 Running 0 0s
vipin_gupta@cloudshell:~$ kubectl scale deployment webserver --replicas=3
deployment.apps/webserver scaled
vipin_gupta@cloudshell:~$ kubectl get pod
NAME                                READY STATUS RESTARTS AGE
webserver-9c9b7cd9f-4r5wv           1/1 Running 0 57s
webserver-9c9b7cd9f-6d9qj           1/1 Running 0 2m11s
webserver-9c9b7cd9f-7jgjs           0/1 Terminating 0 57s
webserver-9c9b7cd9f-r9shz           0/1 Terminating 0 57s
webserver-9c9b7cd9f-qvz26           0/1 Terminating 0 57s
webserver-9c9b7cd9f-xb1hc           1/1 Running 0 57s
vipin_gupta@cloudshell:~$ kubectl get pod
NAME READY STATUS RESTARTS AGE
webserver-9c9b7cd9f-4r5wv 1/1 Running 0 79s
webserver-9c9b7cd9f-6d9qj 1/1 Running 0 2m33s
webserver-9c9b7cd9f-xb1hc 1/1 Running 0 79s
vipin_gupta@cloudshell:~$ kubectl get pod -o wide
NAME READY STATUS RESTARTS AGE IP NODE
NOMINATED NODE READINESS GATES
webserver-9c9b7cd9f-4r5wv 1/1 Running 0 2m10s 10.84.2.4 gke-mycluster-default-pool-2f68edb5-09-z0 <none>
webserver-9c9b7cd9f-6d9qj 1/1 Running 0 3m24s 10.84.0.11 gke-mycluster-default-pool-2f68edb5-k8-z0 <none>
webserver-9c9b7cd9f-xb1hc 1/1 Running 0 2m10s 10.84.0.12 gke-mycluster-default-pool-2f68edb5-k8-z0 <none>
vipin_gupta@cloudshell:~$

```

REC

Vipin Gupta is presenting

Virtualization vs Docker

storage 4GB-60GB	Virtual Machines VM1 VM2 VM3	storage <1MB	Containers C1 C2 C3
boot time: 20-40sec		creation time: in sec	
iso (700MB-6.5GB)	VMW/VB/KVM	images (4MB-100MB)	Docker
	Linux/Win/Mac	Host OS	Linux
	Hardware		Hardware
	Heavy Duty Virtualization		Lightweight Virtualization

11:18 AM | rkn-oiqu-puv