

Kickstarting the Kubernetes & Cloud Native Bootcamp!



Led by: Krutarth Rindani, DevOps Engineer at McAfee



Topic: Kubernetes Fundamentals

Swipe

We've officially begun our 5-week Kubernetes & Cloud Native Bootcamp, and Week 1 - Day 1 was a huge success!

What We Covered 🔎

Kubernetes in the Industry

Key statistics highlighting Kubernetes adoption and impact.

Category	Percentage
Organizations Using Kubernetes for container orchestration	78%
Increased Productivity Reported by teams after adopting Kubernetes	69%
Workloads Run in containers managed by Kubernetes	50%

These statistics underscore Kubernetes' pivotal role in modern cloud-native infrastructure.

Community code is shared via GitHub. [Stop sharing](#) [Code](#)

Participants: Krutarth Rindani, Neel Shah (you), Himanshi Nayi

Kubernetes Control Plane Components

Component	Description
kube-apiserver	The API server exposes the Kubernetes API. It serves as the front end for the Kubernetes control plane.
etcd	Consistent and highly-available key-value store used as Kubernetes' backing store for all cluster data.
kube-scheduler	Watches for newly created Pods with no assigned node, and selects a node for them to run on.
kube-controller-manager	Runs controller processes. Logically, each controller is a separate process, but all run on a single binary.

Kubernetes (This page uses the control plane)

```
graph TD; Kubernetes --> API[API Server]; Kubernetes --> etcd[Kubernetes etcd]; Kubernetes --> SchedulerManager[Scheduler Manager]; etcd <--> ControllerManager1[Controller Manager]; etcd <--> ControllerManager2[Controller Manager]; etcd <--> Kubelet[Kubelet]
```

Participants: Krutarth Rindani, Neel Shah (you), Krish Patel

- Introduction to Kubernetes & its role in cloud-native computing
 - Deep dive into Kubernetes architecture & core components
 - Hands-on experience with kubectl commands & deployments
 - Real-world Kubernetes use cases & industry insights
- 💡 A solid foundation for mastering Kubernetes! 🚀

Learning with a Twist! 🤓

The image displays two side-by-side screenshots from a video conference platform, likely Zoom, during a Kubernetes certification bootcamp.

Top Screenshot: A video feed from Krutarth Rindani showing a meme of SpongeBob SquarePants trying to delete a pod. The meme includes the text "Me trying to delete a pod". Below the video are participant controls: Unmute, Stop video, Chat, DMs, Q&A, Participants (32), Share screen, Stop recording, More, and Leave.

Bottom Screenshot: A video feed from Krutarth Rindani showing a terminal window in a Kubernetes playground. The terminal output shows a deployment named "nginx-deployment" with 3 replicas. The command run was "kubectl apply -f controlplane ~/demo9". Below the video are participant controls: Unmute, Start video, Chat, DMs, Q&A, Participants (30), Share screen, Stop recording, More, and Leave.

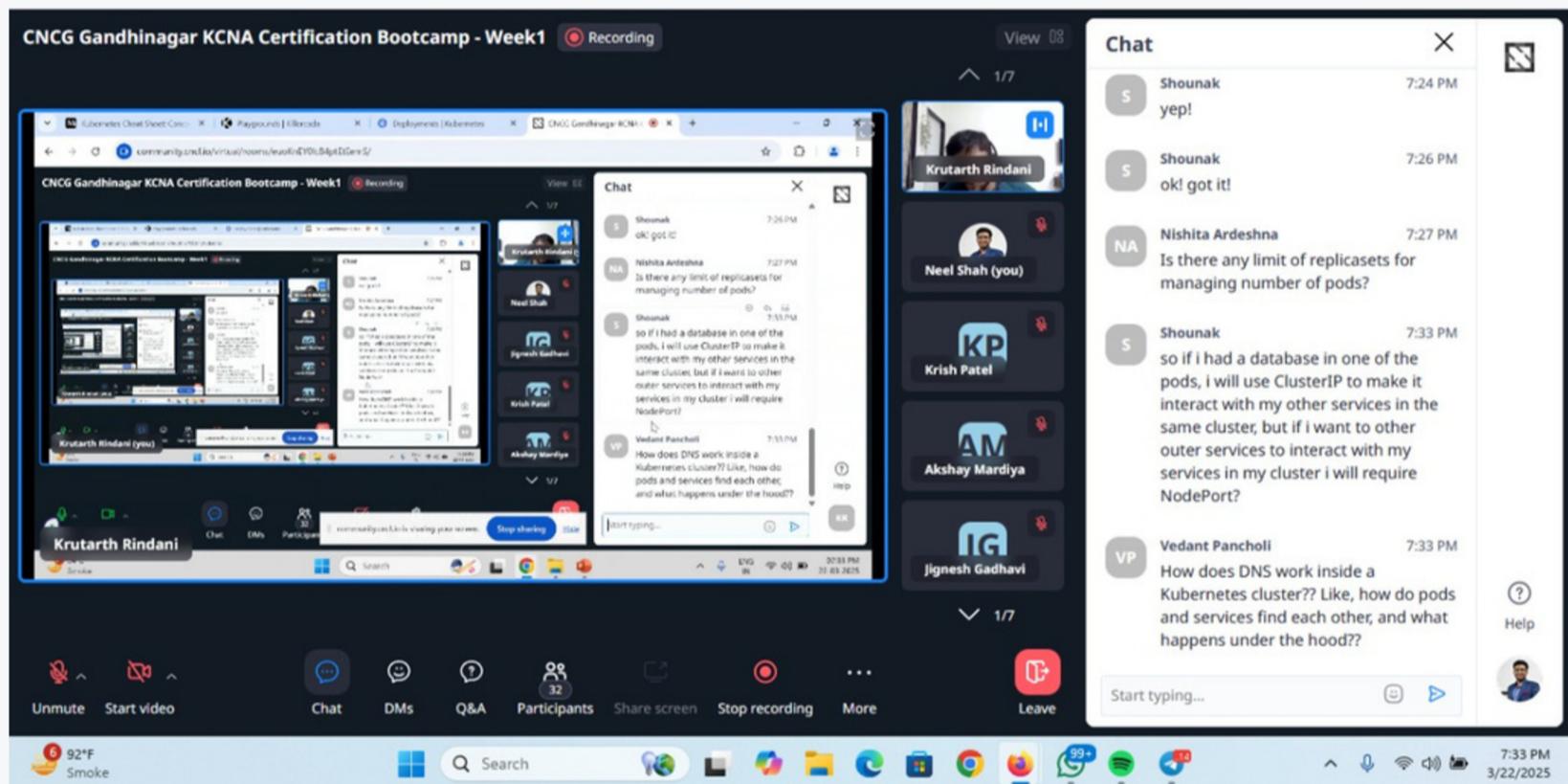
Chat Window: A separate window titled "Chat" showing a conversation between participants:

- Jignesh Gadhavi: Hey @Neel Shah (6:56 PM)
- Neel Shah: We will start in 5 min (6:57 PM)
- Krutarth Rindani: Hi Everyone (6:58 PM)
- Neel Shah: How many of you know K8s? (6:59 PM)
 - Akshay Mardiya: 1 reply (6:59 PM)
- Shounak: just introductory knowledge. (7:00 PM)
- Shounak: What exactly is a controller? (7:16 PM)

- We made complex Kubernetes concepts fun & easy using:
- 😂 Memes – because learning should be enjoyable!
- 💬 Interactive Q&A – answering all doubts in real-time!
- 🛠️ Hands-on exercises – practical application of concepts!

Engaging with the Community

Our participants made this session amazing with their enthusiastic discussions & great questions! 🤝



💡 Biggest takeaway from Day 1? Drop it in the comments! 👇

What's Next?



Week 2 - Container Orchestration (March 29, 2025)



Diving deeper into managing containers at scale!



Still haven't registered? It's not too late!



More details will be shared with registered participants.



Excited for Week 2? Comment below!



