



## **Webinar Topic: - OpenShift, Containers and Kubernetes**

**Name of College: -** A. P Shah Institute of Technology, Kasarwadavli,  
Ghodbunder Road, Thane (Maharashtra)

**Department: -** Information Technology

**Date: -** 15/07/2021

**Participants: -** 87

**Targeted Audience:** Students of TE & BE Information Technology

**Speaker: -** Vaibhav Nagar

Technical Account Manager, Red Hat

Vaibhav works with Red Hat as TAM for Openshift & platform in the customer success team. Vaibhav holds good knowledge of multiple Red Hat cloud platforms such as Red Hat Virtualization and Red Hat OpenStack and Openshift. In his current role he develops relationships with key business and IT stakeholders including customer managers and technical associates, he works closely with strategic customers on different Red Hat products and acts as a Red Hat technical ambassador.

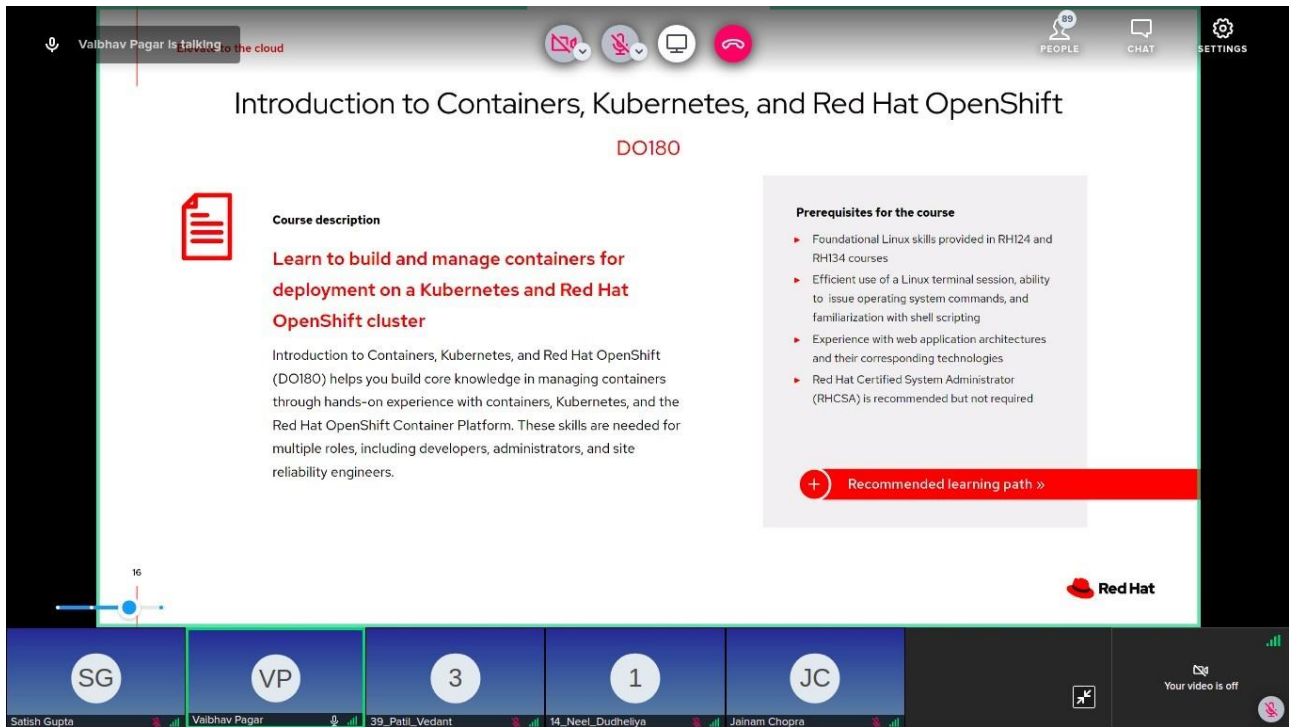
**Faculty Accompanied: -**

- 1.) Prof. Kiran Deshpande
- 2.) Prof. Neha Deshmukh
- 3.) Prof. Apeksha Mohite

**Aim of webinar: -**

This webinar helped students build core knowledge and skills about Red Hat OpenShift which offers automated installation, upgrades, and lifecycle management throughout the container stack—the operating system, Kubernetes and cluster services, and applications—on any cloud & helps teams build with speed, agility, confidence, and choice. Webinar not only exhibited need of Red Hat OpenShift Container Platform for multiple roles, including developers, administrators and site reliability engineers but also its adoption in developing, building and deploying applications with a containerized application platform for accelerating Application development.

## Some Screenshots: -



Valbhav Pagar is talking

Introduction to Containers, Kubernetes, and Red Hat OpenShift  
DO180

**Course description**

**Learn to build and manage containers for deployment on a Kubernetes and Red Hat OpenShift cluster**

Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180) helps you build core knowledge in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat OpenShift Container Platform. These skills are needed for multiple roles, including developers, administrators, and site reliability engineers.

**Prerequisites for the course**

- ▶ Foundational Linux skills provided in RH124 and RH134 courses
- ▶ Efficient use of a Linux terminal session, ability to issue operating system commands, and familiarization with shell scripting
- ▶ Experience with web application architectures and their corresponding technologies
- ▶ Red Hat Certified System Administrator (RHCSA) is recommended but not required

Recommended learning path »

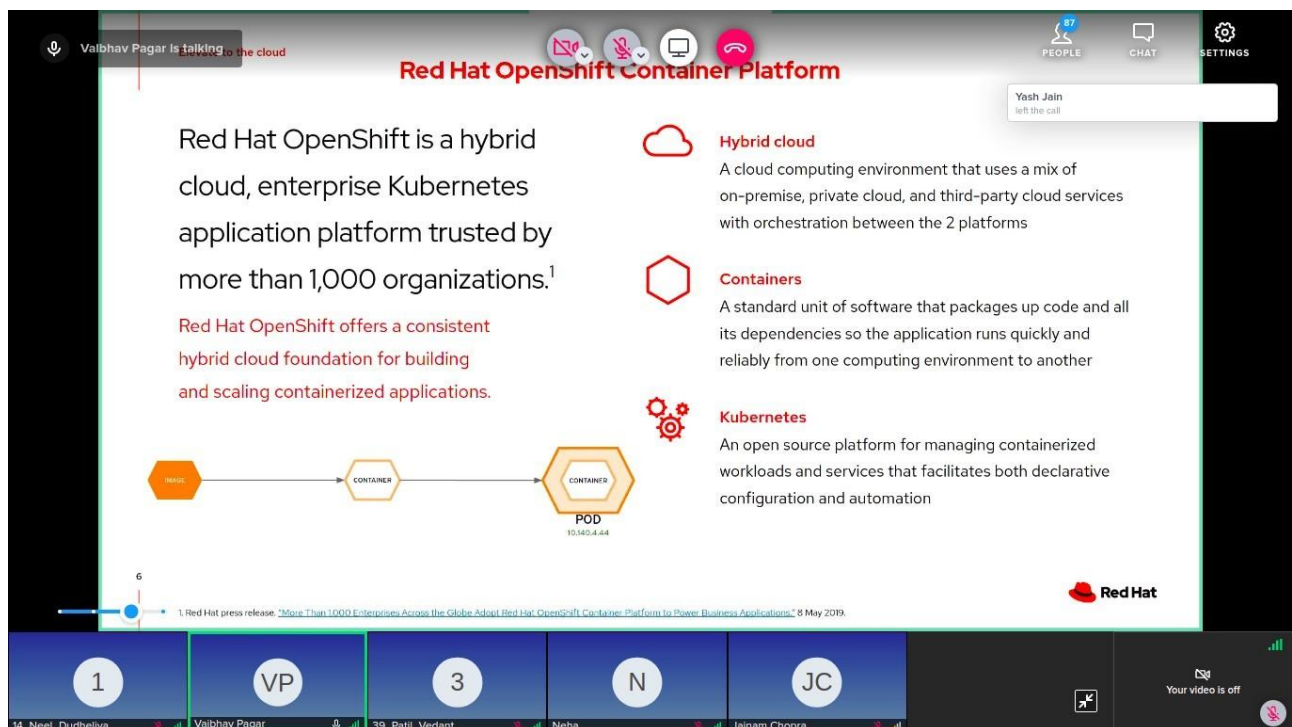
Red Hat

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Valbhav Pagar is talking

Red Hat OpenShift Container Platform

Red Hat OpenShift is a hybrid cloud, enterprise Kubernetes application platform trusted by more than 1,000 organizations.<sup>1</sup>

Red Hat OpenShift offers a consistent hybrid cloud foundation for building and scaling containerized applications.

**Hybrid cloud**  
A cloud computing environment that uses a mix of on-premise, private cloud, and third-party cloud services with orchestration between the 2 platforms

**Containers**  
A standard unit of software that packages up code and all its dependencies so the application runs quickly and reliably from one computing environment to another

**Kubernetes**  
An open source platform for managing containerized workloads and services that facilitates both declarative configuration and automation

1 Red Hat press release: "More Than 1,000 Enterprises Across the Globe Adopt Red Hat OpenShift Container Platform to Power Business Applications." 8 May 2019.

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Valbhav Pagar is talking

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PEOPLE 93 CHAT 1 SETTINGS

## OPENSHIFT ARCHITECTURE

<b>DevOps Tools</b> (API, WEB console, CLI)		
<b>Containerized Services</b> Authentication, Networking, Image Registry	<b>Runtimes and xPaaS</b> Java, Ruby, PHP, Node.js	
<b>Kubernetes</b> Container Orchestration and Management	<b>ETCD</b> Cluster state and configs	<b>OpenShift Kubernetes Extensions</b>
<b>cri-o</b> Container Runtime		
<b>RHEL CoreOS</b>		

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Valbhav Pagar is talking to the cloud

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PEOPLE 90 CHAT 1 SETTINGS

## A consistent container application platform

Transition from the datacenter to the cloud

- Automation
- Multitenant
- Security focused
- Network traffic control
- Over-the-air updates
- Monitoring and chargeback
- Pluggable architecture

Bare metal, VMware vSphere, Red Hat Virtualization, Red Hat OpenStack® Platform, Amazon Web Services, Microsoft Azure, Google

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