

# Kubernetes and Docker: The Container Masterclass

★★★★★ [7 reviews](#)

By [Cerulean Canvas](#)



[Start](#)

TIME TO COMPLETE:  
6h 59m

LEVEL:  
Advanced

TOPICS:

**Docker**

PUBLISHED BY:

**Packt Publishing**

PUBLICATION DATE:

December 2020



Containers are empowering businesses to scale fearlessly and manage their web applications hassle-free. They are the prime reason why micro and small enterprises are migrating to the cloud. All of this has undoubtedly led to an enormous demand for professionals with containerization skills. This course is a comprehensive explanation of what you should do to successfully build and run containerized applications using Docker and Kubernetes.

The course starts with an introduction to Docker and explains how it helps in developing web applications. Next, you will explore the architecture of Docker and become familiar with Docker images, Docker files, and containers. Moving along, you will work with the Container Networking Model (CNM) and Docker storage and get an introduction to Docker Compose. Towards the end, you will learn to perform container orchestration with Docker Swarm and pods and get to grips with the concepts of Kubernetes.

By the end of this course, you will have all the skills needed to build, deploy, and manage containerized web applications on local premises and on the cloud using Kubernetes and Docker.

## What You Will Learn

- Write your Docker files and Docker Compose files
- Create a single-node Kubernetes cluster on local machines using minikube
- Leverage advanced orchestration options of Kubernetes
- Understand and implement different workloads on Kubernetes
- Manage Kubernetes on the cloud with Google Kubernetes Engine (GKE)
- Containerize and deploy multi-tier applications, such as Apache Zookeeper

## Audience

If you are a software engineer, system admin, or DevOps engineer, who is looking to learn Docker and Kubernetes to make your web application deployment faster, cheaper, and more reliable, this course

is for you. Basic knowledge of Linux command line and computer science is needed to get started with this course.

## About The Author

**Cerulean Canvas:** Cerulean Canvas signifies the sky-sized scope of dreams and imagination where you can paint anything! Cerulean Canvas is a small group of believers who want to make an impact by doing what they are best at educating. Sounds like an old-school rock band, right? Well, that is the whole point! Education can bring evolution (information source: time itself) when it is delivered to aspiring minds with the utmost care. So, every book, every article, and every lecture they produce is a performance for them, and their priority is student satisfaction.

---

## About the Publisher

Packt helps real-world developers put software to work in new ways with over 7,500 practical books and videos covering over 1,000 technologies. With coverage ranging from introductory programming to new and emerging technologies, as well as expert advice from industry-leading figures, Packt has great content for any technical professional looking to stay relevant and keep their skills up-to-date.

## Resources

[Supplemental Content](#)

