

Kubernetes for Beginners

★★★★★ [35 reviews](#)

By [Bogdan Stashchuk](#)



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TIME TO COMPLETE:

3h 2m

LEVEL:

Beginner

TOPICS:

Kubernetes

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Kubernetes is now a de-facto standard for the deployment of the containerized applications into the production and it is the must-know tool for all DevOps engineers and software developers who want to learn how to run and test their applications in production.

During this course, you will also perform practical tasks like creating a Kubernetes cluster locally on your computers using Minikube, managing the Kubernetes cluster using kubectl, creating pods, analyzing how they are assigned to nodes, and examining their internals.

You will also learn to create deployments and observe how Kubernetes automatically creates necessary pods for this deployment, scale deployments, monitor deployments, and observe what happens when some of the pods fail.

Furthermore, you will create services to be able to connect to the deployments both internally and externally and launch the Kubernetes dashboard. Also, in practice activities, you will learn how to deploy applications in Kubernetes following the declarative approach and you will be able to create and apply YAML configuration files for the deployments and for the services.

By the end of the course, you will be able to modify deployments and services by making changes to the YAML configuration files and re-applying them.

What You Will Learn

- Understand Kubernetes and its architecture
- Learn what node, pod, services, and deployments are
- Learn to create a Kubernetes cluster
- Learn to manage a cluster using the Kubernetes dashboard
- Create pods using command lines
- Learn to connect to pods and explore their internals

Audience

This course can be taken by DevOps engineers who want to learn how to use Kubernetes. Software developers who want to learn how

applications behave in the Kubernetes cluster. Basic knowledge of Docker is required.

About The Author

Bogdan Stashchuk: Bogdan Stashchuk is an experienced instructor (over 20+ years) with a software engineering background. He teaches complex stuff in an easy step-by-step manner. All his courses include practical exercises, which allow the learners to follow him from the start of any course till the end. Learners will perform all tasks the same way he does in his video lectures. There are a lot of challenging assignments, the solutions for which are discussed inside the course. This is the perfect combination that enables you to really learn and retain gained knowledge for a long period of time.

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.

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