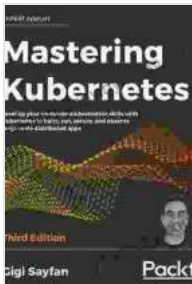


# Level Up Your Container Orchestration Skills With Kubernetes To Build & Run

## What is Kubernetes?

Kubernetes is an open-source container orchestration platform that automates the deployment, management, scaling, and networking of containerized applications. It is the brainchild of Google, and has quickly become the industry standard for container orchestration.



## Mastering Kubernetes: Level up your container orchestration skills with Kubernetes to build, run, secure, and observe large-scale distributed apps, 3rd Edition

by Gigi Sayfan

★★★★☆ 4.6 out of 5

Language : English  
File size : 9572 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 642 pages



Kubernetes is designed to make it easy to deploy and manage complex distributed systems. It provides a consistent way to deploy and manage containers across different environments, including on-premises, cloud, and hybrid environments.

## Benefits of Using Kubernetes

There are many benefits to using Kubernetes, including:

- **Increased efficiency:** Kubernetes automates many of the tasks involved in deploying and managing containerized applications, freeing up developers to focus on other tasks.
- **Improved scalability:** Kubernetes makes it easy to scale containerized applications up or down as needed.
- **Increased reliability:** Kubernetes provides built-in features for high availability and disaster recovery, ensuring that your applications are always up and running.
- **Reduced costs:** Kubernetes can help you reduce costs by optimizing the use of your resources.

## Getting Started with Kubernetes

Getting started with Kubernetes is easy. There are many different ways to install and configure Kubernetes, depending on your needs.

Once you have Kubernetes installed, you can start deploying containerized applications. Kubernetes uses a declarative approach to deployment, which means that you specify the desired state of your application, and Kubernetes will take care of the rest.

Kubernetes also provides a rich set of features for managing containerized applications, including:

- **Rolling updates:** Kubernetes can automatically update your applications without downtime.
- **Self-healing:** Kubernetes can automatically restart failed containers.

- **Autoscaling:** Kubernetes can automatically scale your applications up or down based on demand.
- **Load balancing:** Kubernetes can automatically distribute traffic across your application instances.

Kubernetes is a powerful tool that can help you build and run robust, scalable containerized applications. It is the leading container orchestration platform, and it is used by many of the world's largest companies.

If you are interested in learning more about Kubernetes, there are many resources available online. The Kubernetes documentation is a great place to start, and there are also many tutorials and courses available.

With a little effort, you can quickly learn how to use Kubernetes to build and run your own containerized applications.



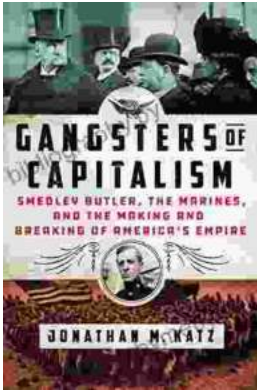
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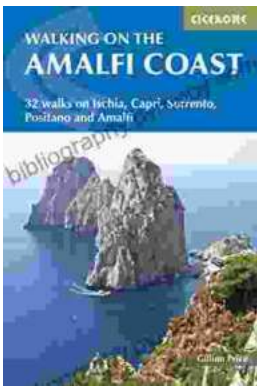
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