

# Kubernetes

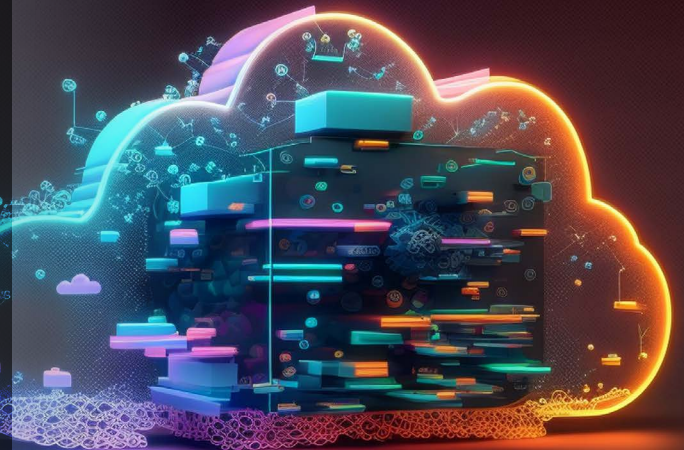
## Docker and Kubernetes in practice

Kubernetes is the all-purpose weapon for any container environment with unique requirements. When the load gets heavy and the environment needs to be fail-safe, organizations switch from individual Docker servers to Kubernetes.

This c't special issue accompanies admins and developers on this journey. It first summarizes container basics using real-world examples and presents useful tools for handling containers and checking them for security vulnerabilities.

To get started on a more powerful Kubernetes cluster, the Kubernetes learning path starts with three bare Linux servers and uses an application to move from a single-server Docker environment to the Kubernetes world to show concepts, tools from the ecosystem and proven approaches. As you try out and rebuild your first server cluster, you'll learn how to translate applications from Docker to Kubernetes and set them up securely.

Once you feel at home here, it's time to get down to the nitty-gritty: redundant storage is needed, traffic must be secured via TLS, and the cluster must be protected with access permissions. The behind-the-scenes workings are also illuminated.



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## Getting started with Docker

- Understand Docker and get started
- Docker for the lazy
- Scanning container images with Trivy
- How Docker and Ipv6 work in harmony

## The Kubernetes learning path

- Setting up your first cluster
- Containers, Pods and RollingUpdates
- Routing traffic with Traefik
- Storage and Secrets
- Cluster security

## Advanced concepts

- Redundant container storage with Longhorn
- Helm: Packaging your own Kubernetes applications
- Raft Consensus Algo: How clusters work

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