

Related Roadmaps

✓

 Docker Roadmap

✓

 Backend Roadmap

✓

 DevOps Roadmap

✓

 System Design Roadmap

Find the interactive version of this roadmap and more roadmaps at

roadmap.sh

Deploying your First Application

Choosing a Managed Provider

Installing a Local Cluster

Injecting Pod Config with ConfigMaps

Using Secrets for Sensitive Data

Configuration Management

Services and Networking

External Access to Services

Load Balancing

Networking & Pod-to-Pod Communication

Resource Management

Setting Resource Requests and Limits

Assigning Quotas to Namespaces

Monitoring & Optimizing Resource Usage

Security

Role Based Access Control (RBAC)

Network Security

Container and Pod Security

Container and Pod Security

Monitoring and Logging

Logs

Metrics

Traces

Resource Health

Observability Engines

Storage and Volumes

CSI Drivers

Stateful Applications

Scheduling

Basics

Taints and Tolerations

Topology Spread Constraints

Pod Priorities

Evictions

Autoscaling

Horizontal Pod Autoscaler (HPA)

Vertical Pod Autoscaler (VPA)

Cluster Autoscaling

Deployment Patterns

CI / CD Integration

GitOps

Helm Charts

Canary Deployments

Blue-Green Deployments

Rolling Updates / Rollbacks

Creating Custom Controllers

Custom Schedulers and Extenders

Custom Resource Definitions (CRDs)

Kubernetes Extensions and APIs

Should you manage your own Cluster?

Installing the Control Plane

Adding and Managing Worker Nodes

Multi-Cluster Management

Cluster Operations

Advanced Topics

Continue learning with following roadmaps

DevOps

Docker

Backend