



# What are Common Kubernetes Challenges

- **Complex Setup**  
Initial cluster setup, configuration, and YAMLs can be hard for beginners.
- **Security & Networking**  
Managing network policies, RBAC, secrets, and securing APIs is tricky.
- **Persistent Storage**  
Handling volumes, storage classes, and data persistence for stateful apps needs care.
- **Monitoring & Logging**  
Gathering and visualizing logs/metrics (e.g., with Prometheus, Grafana, Loki) at scale takes effort.
- **Stateful Apps**  
Databases and queues need extra work (operators, readiness checks, backup).
- **Cost Optimization**  
Overprovisioning, idle pods, and unused resources can quickly increase cloud bills.

## Why are stateful applications harder to manage in Kubernetes?

- A) They don't scale horizontally
- B) They require no configuration
- C) They need operators, backups, and readiness checks
- D) They use too many pods

**Answer:** C) They need operators, backups, and readiness checks