

Case Study-41 DevOps

Scaling Apps Without Breaking Everything

The Problem:

As user demand grows, scaling applications becomes risky:

- ✗ Manual scaling → downtime
- ✗ Performance degradation
- ✗ Ops firefighting during peak traffic

The Solution:

DevOps + Cloud-native design solves this:

- ✓ Auto-scaling using Kubernetes HPA
- ✓ Immutable deployments with Docker
- ✓ Blue/Green & Canary rollouts for safe releases
- ✓ Load testing & observability integrated into the pipeline

Outcome: Seamless scaling without outages — even during peak load.