

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.