

Cloud Infrastructure and DevOps Guide

Cloud infrastructure utilizes distributed virtual machines and container orchestration systems such as Kubernetes. Docker containers enable scalable microservices deployment across multiple regions.

Continuous Integration and Continuous Deployment pipelines automate testing and infrastructure provisioning. Load balancers and autoscaling groups enhance system reliability and horizontal scalability.

Infrastructure as Code practices allow declarative configuration of cloud environments. Observability tools monitor latency, throughput, and fault tolerance across distributed systems.