



DevOps Institute

DevOps Engineering FoundationSM

BLUEPRINT

Learn what DevOps engineering is, why DevOps engineering is important and how DevOps is engineered for success.

DevOps Engineering Introduction

Sound DevOps engineering depends on a foundational understanding of DevOps principles, practices, related frameworks, performance and benefits.

Ephemeral Elastic Infrastructures

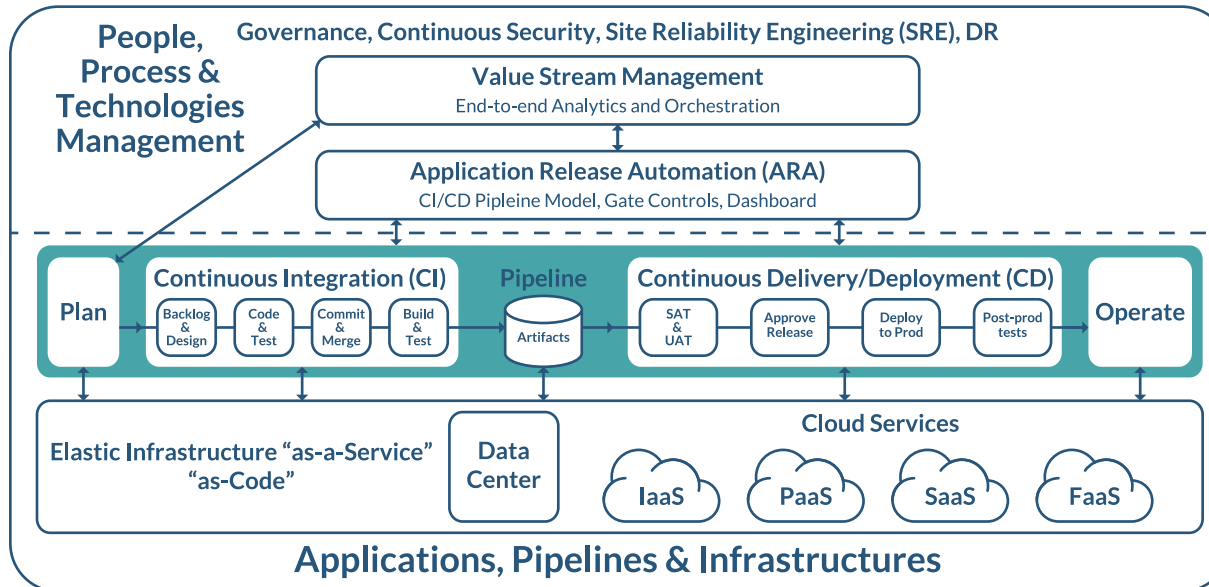
DevOps works best when engineered for virtual and cloud resources using configuration management, infra-as-code, containers orchestration, and GitOps

DevOps Technology

The technology heart of DevOps is source and artifacts control, CI/CD pipelines, tools and toolchains, application release automation, and value stream management.

Architectures & Continuous Integration

Modular applications architected as microservices, packaged in containers, work best with continuous integration processes.



Continuous Delivery & Deployment

DevOps for Continuous Delivery and Deployment requires engineering release automation and leveraging deployment strategies.

Metrics, Monitoring, Observability, Governance

Visibility and controls for DevOps requires metrics, monitoring, observability, and governance.

Continuous Testing

Fast DevOps lead times require that testing solutions be engineered around key tenets of continuous testing, strategies for test creation, TDD, test acceleration, test results, test management, and test environment management.

DevOps Engineering Humans

DevOps can not succeed by engineering technology and processes alone. The right culture, specific team topologies, commitment to continuous learning, and awareness of future DevOps trends are essential.