DevOps Practices and Platform Engineering

DevOps is a powerful modern approach to unifying the business strategy, development, testing, deployment, and lifecycle operation of software. DevOps is enriched with platform engineering, which provides blueprinted and supported approaches to building and deploying software. Together, DevOps and platform engineering facilitate the improvement of business, IT, and development collaboration while taking full advantage of automation and AI technologies, end-to-end processes, application security, microservices architecture, and cloud infrastructure to accelerate development and delivery and enable innovation. The *DevOps Practices and Platform Engineering* subscription service provides insight, forecasts, and thought leadership to assist IT management, IT professionals, IT vendors, and service providers in creating compelling DevOps and platform engineering strategies and solutions.

MARKETS AND SUBJECTS ANALYZED

- DevOps adoption drivers, benefits, and use cases
- Identification of DevOps innovators and best practices
- Identification of critical DevOps and platform engineering tools enabling automation, open source technologies, and market leaders
- Emerging DevOps practices such as platform engineering, AI/ML, GitOps, progressive delivery and feature flags, internal developer platforms and portals, and policy as code
- Analysis of the impact that DevOps is having on IT infrastructure hardware and software purchasing and deployment priorities across on-premises, cloud service, and hybrid platforms
- Major transformation and impact that DevOps is having on staffing, skills, internal processes, and business success
- ITOps tools for areas such as IaC, observability, AIOps, incident response, and distributed tracing

CORE RESEARCH

- Worldwide DevOps Software Forecast
- Worldwide DevOps Software Market Share
- DevOps and Platform Engineering Survey
- Changing Drivers of DevOps: Role of Serverless and Microservices/Cloud-Native Architectures
- Market Analysis Perspective: Worldwide Developer, Operations, Platform Engineering, and DevOps
- Evolving Approaches and Practices in DevOps
- The Shift to Continuous Delivery and Deployment Using Modern Progressive Delivery Solutions
- Tools and Frameworks for Supporting DevOps Workflows
- How DevOps Is Increasingly Used as a Driver for Business Revenue
- How Organizations Are Using Platform Engineering to Improve DevOps Velocity

In addition to the insight provided in this service, IDC may conduct research on specific topics or emerging market segments via research offerings that require additional IDC funding and client investment. To learn more about the analysts and published research, please visit: DevOps Practices and Platform Engineering.

KEY QUESTIONS ANSWERED

1. What are the primary DevOps adoption drivers, benefits, and use cases?
2. What is the role of GenAI, automation, security, and open source in enabling effective DevOps operations and strategies?
3. Which vendors are disrupting the status quo with DevOps innovation?
4. What impact does platform engineering have on DevOps efficiency, and what are some of the key adoption patterns that organizations can use to build platform engineering teams?
5. What are the enterprise best practices for efficient and effective DevOps implementation and sustainability?

COMPANIES ANALYZED

This service reviews the strategies, market positioning, and future direction of key providers in the DevOps and platform engineering market, including:

Amazon Web Services, Atlassian, Broadcom, BMC, CircleCI, CloudBees, Datadog, Digital.ai, Dynatrace, F5, GitHub, GitLab, Google, Humanitec, IBM, JFrog, Micro Focus, Microsoft, New Relic, Oracle, Perforce, Progress, Red Hat, Salesforce, ServiceNow, Smartbear, Spotify, and Tricentis.