

# The Emergence of Platform Engineering as a Natural Addition to DevOps

In many ways, the DevOps movement has changed fundamentally how organizations build, deploy, and manage applications. Over time the complexity and number of systems (and the environments that come with them) has increased, and, in turn, a new domain of practice is emerging: platform engineering. Platform engineering can be understood as the creation of an intentional internal platform that will act as an "enabler" for development and operations teams by allowing them to innovate at a faster rate, while at the same time reducing the burden of managing the underlying infrastructure. The emergence of platform engineering represents a growing trend towards scalable, self-service approaches that give teams more control to deliver business value, while avoiding operational complexity. For practitioners starting their careers in this emerging field, a methodical [DevOps Course in Pune](#) will provide them the best possible grounding to understand how Platform Engineering sits alongside and supports current DevOps practice.

Fundamentally speaking, platform engineering is all about providing reusable and standardized systems from which teams can deploy and operate their applications with ease. Instead of every team creating their monitoring, security, or CI/CD pipelines, a platform team builds and supports these capabilities once in a single consistent, reliable system. This prevents duplication of effort, and it will mean consistency across projects. If organizations can leverage a platform team model to improve the productivity and reliability of application delivery; the developers can concentrate on building features, rather than on infrastructure problems. There are more and more skilled practitioners in the market who understand this way of working, and [DevOps Training in Pune](#) is a great way to learn more from these experts and build a foundation in working in this way on platforms irrespective of the systems being used.

The expansion of platform engineering is also caused by the rapid adoption of cloud-native technologies. With Kubernetes, microservices, and containerized workloads all proliferating, it's increasingly difficult to manage that infrastructure. Enter the platform engineer, who abstracts that complexity, building self-serve portals and automated workflows that simplify the deployment process while keeping governance and compliance in mind. In fact, successful platform engineering strategies are predicated on effectively managing the duality between developer freedom and operational controls. When an organization has the ability to employ this type of thinking, they can develop more quickly while maintaining reliability and significantly reducing the risk involved with manual processes. Students and professional learners participating in [DevOps Classes in Pune](#) get the

benefit of real, hands-on experience with container orchestration, automation, and observability to contend with real-world challenges in platform-oriented roles.

In addition, also platform engineering is changing how organizations look at culture. For instance, the traditional DevOps culture had close collaboration between the Development and Operations teams. Platform engineering takes it a step further and creates a “product mindset” for internal teams. The Platform teams sees Developers as customers and develops tools and systems with actual needs in mind. This customer first mindset improves collaboration, improves the rate of standardized tool adoption and thirdly reduces friction for teams. Another shift is how the emphasis of DevOps is evolving from working together as teams, to continuing to work together, but creating platforms that speed up the whole software delivery lifecycle.

The positives of platform engineering are much larger than efficiencies. One of the positives of standardized platforms means Organizations can maintain best practices of security, observability and compliance without increasing additional responsibilities on the developers. This is critical for Organizations in heavily regulated industries, like finance or healthcare, where organizations can suffer severe consequences for non-compliance. Platform Teams support the developers, in a way that enables the speed of delivery, while still ensuring guard rails.

Also important is the place of platform engineering in the creation of scale. As organizations grow and their applications expand, scaling their infrastructure presents a challenge because if every team is doing it differently and with no standardization, things can become chaotic. Platform engineering brings some standardization, which will help organizations scale their infrastructure more reliably and cost-efficiently.

We can look at the emergence of platform engineering as a continuation and link in the DevOps evolution. When organizations reach a level of DevOps maturity, and there is continuous innovation, they often realize they need to develop their own internal platform. Of course, this is not just to speed up the delivery of software, but also to develop better and more secure and reliable systems with more usability.

To summarize, platform engineering is becoming a needed discipline in our modern software development world. By joining the rapid iteration and delivery process that DevOps and the platform

engineering disciplines bring, organizations will optimize their software delivery and versioning speed, security, and reliability, and combine stability with the contours of platform thinking. For professionals that want to get ahead of the curve, make learning from a DevOps and platform engineering expertise a goal. With professional definitions and guides, such as courses and training, and experience/exposure, individuals can enhance their employability, knowledge, and affect the future of innovation based on DevOps principles.