

# DevOps Trends to Watch in 2024

In our view, there are three key trends that are shaping DevOps in 2024: AIOps, shift-left security, and data-driven development.

AIOps will pick up steam as more teams look to bring intelligent automation to IT systems behind the scenes. By harnessing AI capabilities like machine learning, AIOps platforms can analyze systems, surface valuable insights, flag potential issues early, and even self-heal problems. This means more time focused on important work for DevOps teams.

On the security front, practices will shift left as teams make detecting vulnerabilities early, before production, a top priority. Rather than just run penetration tests after deployment, shift-left security calls for continuous, automated checks right from pre-commit and CI/CD pipelines to infrastructure templates. This preventative approach drastically reduces risk, saves security auditing efforts, and keeps customer data safe. As threats grow more advanced, teams will need to shift security checks as early as possible.

Finally, 2024 is seeing more data-driven development where test data guides requirements, designs, and building. By synthesizing relevant test data upfront, teams can validate use cases, catch edge scenarios, and craft resilient, customer-friendly apps. This emerging test-first, analytics-powered mindset bakes in adaptability and usability into the pipeline.

While these three areas offer a glimpse into 2024, there will surely be no shortage of new ideas and innovation ahead for DevOps. The pace of change seems to accelerate every year, which is!



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