

DevOps is a set of practices meant to integrate software development and IT operations—reducing the Systems Development Life Cycle (SDLC) and ensuring continuous delivery with high software quality.

Its primary aim is to automate as many software development processes as possible, make frequent software releases, and enhance the development speed and scalability. **Statistics suggest that 68% of organizations** experience improvement in their software development quality after implementing DevOps practices.

Thus, whether you wish to automate the steps of testing, building, or releasing a project —DevOps plays a vital role.

However, while integrating development and operations offers significant benefits—it can be challenging to identify the appropriate tool for your team to implement DevOps practices.

In this article, we share a list of excellent DevOps tools to improve the efficiency and agility of software development within your team. But first, let's see what DevOps tools are and a few essential tips for finding the right tool for your organization.

What are DevOps tools?

DevOps tools bring DevOps practices to life—covering the entire software development cycle—from code reviews, version control, deployment, and **monitoring**.

DevOps tools include all the platforms, servers, tools, and applications you use in the new SDLC.

Thus, choosing the right DevOps tool:

- Increases and improves communication
- Automates redundant processes
- Eliminates context switching
- Harnesses software monitoring to deliver software much faster

Thus, DevOps tools ensure automation, transparency, and effective collaboration—making it easier for stakeholders, whether in development, business, or security, to exchange data and technical information faster and deliver better products.

Now let's see what you need to keep in mind when selecting the right DevOps tool.

How to choose the right DevOps tool?

While no one tool provides all the necessary capabilities required to support a DevOps practice—you need to consider some key factors when choosing tools for your organization's or product's specific needs and DevOps goals.

These goals vary according to the organization's operations, structure, and environment. So, here are a few criteria for choosing the right DevOps tools for your organization or particular product to see **success**.

- **Technology and application infrastructure:** You need to consider the software or application's platforms and the infrastructure technology that powers those platforms—ensuring that the tool you choose works with the applications and infrastructure you host on-prem, in the cloud, or in hybrid environments.
- **Open and broad integration:** Make sure that the tools you choose integrate with various DevOps pipeline technologies—like testing frameworks (like Selenium or JUnit), project management systems (like Jira), **communication platforms** (like Slack or Teams), and Continuous Integration (CI) and Continuous Development (CD) tools (like Jenkins and GitHub).
- **Developer process integration:** Ensure to choose a tool that integrates your existing development tools, **project management platforms**, and Integrated Development Environments (IDEs).
- **Pricing or licensing:** Consider whether the tool is commercial or open-source. We recommend you avoid free tools and choose ones with straightforward licensing with an honest approach to additional non-licensed related costs to simplify planning and eliminate future roadblocks.
- **Ease of use and scalability:** Choose a tool that's easy to learn and implement and comes with scaling capabilities as your organization grows and the team's efficiency improves.

While DevOps tools address critical challenges with implementing DevOps practices—there isn't a one-size-fits-all or comprehensive solution available. Hence, multiple DevOps tools are made to fit different kinds of requirements.

With that in mind, here are the top DevOps tools to facilitate team collaboration and software development within your team.