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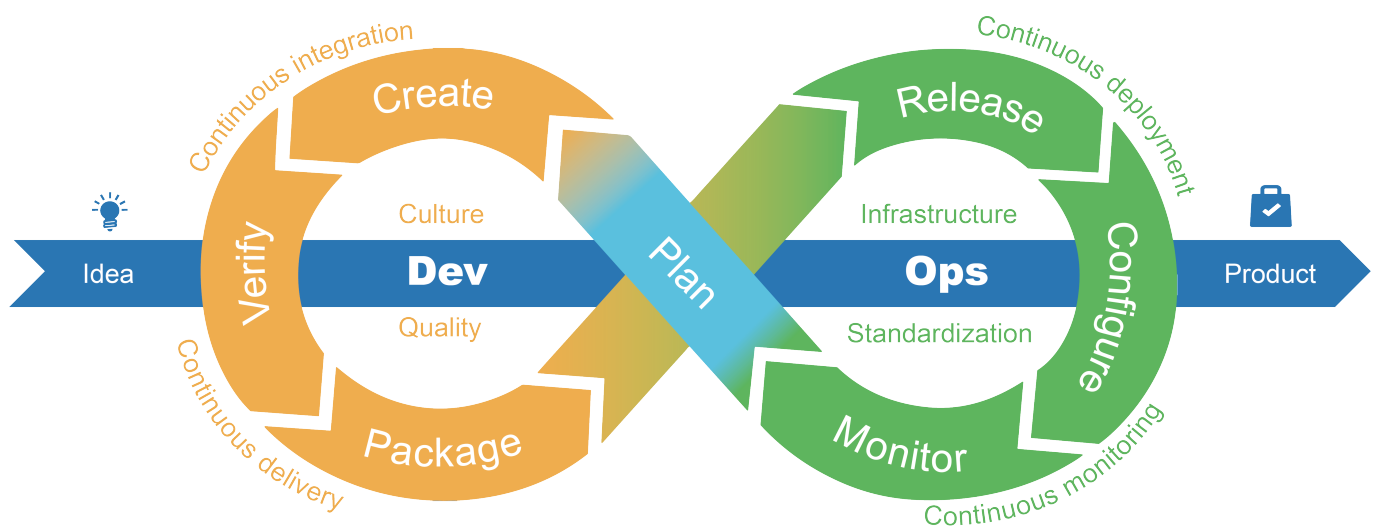
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# DevOps Toolchain

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As DevOps is intended to be a cross-functional mode of working, those that practice the methodology use different sets of tools—referred to as toolchains rather than a single one. These toolchains are expected to fit into one or more of the following categories, reflective of key aspects of the development and delivery process:



## What is DevOps Toolchain?

The DevOps toolchain refers to the set of tools and technologies that are used to support the DevOps practices and automate the software development life cycle. The toolchain consists of a variety of tools that are used at different stages of the software development process, including planning, coding, testing, deployment, and monitoring.

The DevOps toolchain can vary depending on the organization, but some common tools include:

- Version control systems, such as Git and Subversion, which are used to manage source code and track changes over time.
- Continuous integration (CI) tools, such as Jenkins and TeamCity, which automate the building and testing of code changes.

- Configuration management tools, such as Ansible and Chef, which are used to manage infrastructure and ensure consistency across different environments.
- Containerization tools, such as Docker and Kubernetes, which enable developers to package applications and dependencies into portable containers that can be run anywhere.
- Monitoring and logging tools, such as Nagios and ELK stack, which provide visibility into the performance and health of applications and infrastructure.
- Collaboration tools, such as Jira and Slack, which enable teams to collaborate and communicate effectively throughout the software development process.

The DevOps toolchain is designed to automate and streamline the software development process, enabling teams to deliver high-quality software more quickly and reliably. By using a range of tools that integrate with each other, organizations can create a cohesive and efficient software development workflow.



Video

Source: [YouTube](#)

## Stages of Devops

### Stages of DevOps

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Snippet from [Wikipedia](#): [DevOps toolchain](#)

A **DevOps toolchain** is a set or combination of tools that aid in the delivery, development, and management of software applications throughout the systems development life cycle, as coordinated by an organisation that uses DevOps practices.



- <https://newrelic.com/devops/toolset>
- <https://xebialabs.com/periodic-table-of-devops-tools/>
- <https://www.bluebridgesoftware.com/blog/26-devops-the-gartner-toolchain.html>
- <https://blogs.gartner.com/christopher-little/files/2019/01/DOTC-vendors.jpg>

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