

# **GLOSSARY OF DEVOPS AUTOMATION TOOLS**

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Glossary of Automation Tools.**



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Term	Definition
Jenkins	An open-source automation server that supports continuous integration and continuous delivery pipelines, with a large number of plugins and integrations with other tools and platforms
Travis CI	A cloud-based continuous integration and delivery platform that integrates with GitHub and supports a wide range of programming languages and platforms
CircleCI	A cloud-based continuous integration and delivery platform that supports a wide range of programming languages and platforms, with a focus on ease of use and speed
GitLab CI/CD	A continuous integration and delivery platform built into the GitLab source code management platform, with support for self-hosted installations and a wide range of programming languages and platforms
TeamCity	A commercial continuous integration and delivery server from JetBrains, with support for a wide range of programming languages and platforms and integrations with other JetBrains tools
Ansible	An open-source automation tool that automates software provisioning, configuration management, and application deployment, using a simple YAML-based configuration language

Term	Definition
Puppet	An open-source configuration management tool that automates software deployment and management, using a declarative Puppet language for describing system state
Chef	An open-source configuration management tool that automates software deployment and management, using a declarative Chef language for describing system state
Terraform	An open-source infrastructure as code tool that allows infrastructure to be described and provisioned using a simple declarative language, with support for a wide range of cloud platforms and services
Docker	An open-source containerization platform that allows applications and services to be packaged and run in lightweight, portable containers, providing a consistent runtime environment across different systems
Kubernetes	An open-source container orchestration platform that automates deployment, scaling, and management of containerized applications and services, providing features such as load balancing and self-healing
Nagios	An open-source monitoring tool that monitors systems, networks, and infrastructure, providing alerts and notifications for issues and outages

Term	Definition
Grafana	An open-source platform for monitoring and observability, providing visualization and analysis of metrics and logs from multiple sources
ELK Stack	A combination of open-source tools (Elasticsearch, Logstash, and Kibana) that provides log collection, storage, analysis, and visualization capabilities
Prometheus	An open-source monitoring tool that collects metrics from systems and applications, providing a time-series database and a flexible query language for analysis and visualization
Splunk	A commercial monitoring and observability platform that collects and analyzes data from a wide range of sources, providing features such as search, visualization, and alerts
Git	An open-source distributed version control system that allows multiple developers to collaborate on code changes, providing features such as branching, merging, and version history
Subversion (SVN)	A centralized version control system that allows multiple developers to collaborate on code changes, providing features such as version history and branching

Term	Definition
Mercurial	An open-source distributed version control system that allows multiple developers to collaborate on code changes, providing features such as branching, merging, and version history
Gradle	An open-source build automation tool that supports a wide range of programming languages and platforms, providing features such as dependency management and task automation
Maven	An open-source build automation tool that focuses on Java projects, providing features such as dependency management, project lifecycle management, and plugin integration
Ant	An open-source build automation tool that focuses on Java projects, providing features such as dependency management, task automation, and build customization
Make	A command-line build automation tool that has been around for decades, providing a way to define build rules and dependencies using a simple Makefile language
SonarQube	An open-source code quality and security platform that analyzes code for bugs, vulnerabilities, and other issues, providing reports and metrics for improving code quality

Term	Definition
JIRA	A commercial project management tool that provides features such as issue tracking, project planning, and agile methodologies, integrating with other development tools and platforms
Trello	A cloud-based project management tool that provides a visual interface for managing tasks and projects, using boards, lists, and cards
Asana	A cloud-based project management tool that provides features such as task management, project tracking, and collaboration, integrating with other development tools and platforms
Slack	A cloud-based communication and collaboration tool that provides features such as chat, video calls, and file sharing, integrating with other development tools and platforms
Microsoft Teams	A cloud-based communication and collaboration tool that provides features such as chat, video calls, and file sharing, integrating with other Microsoft tools and platforms
Zoom	A cloud-based video conferencing tool that provides features such as video calls, screen sharing, and recording, integrating with other communication and collaboration tools

Term	Definition
Google Meet	A cloud-based video conferencing tool that provides features such as video calls, screen sharing, and recording, integrating with other Google tools and platforms
Selenium	An open-source test automation tool that automates web browser interactions, allowing for testing of web applications across multiple browsers and platforms
Appium	An open-source test automation tool that automates mobile app interactions, allowing for testing of mobile applications across multiple devices and platforms
JMeter	An open-source load testing tool that simulates user traffic and tests performance and scalability of web applications and services
Gatling	An open-source load testing tool that simulates user traffic and tests performance and scalability of web applications and services
Postman	A commercial API testing tool that provides features such as API development, testing, and documentation, integrating with other development tools and platforms
Newman	An open-source command-line tool that allows Postman collections to be run in a continuous integration and delivery pipeline

Term	Definition
Jenkins X	A cloud-native continuous integration and delivery platform built on Kubernetes, providing features such as automated release management, versioning, and deployment
Argo CD	An open-source continuous delivery tool that automates deployment of applications to Kubernetes clusters, providing features such as automated rollbacks, versioning, and release management
Istio	An open-source service mesh platform that provides features such as traffic management, security, and observability for microservices deployed on Kubernetes clusters
Terraform	An open-source infrastructure-as-code tool that automates the deployment and management of infrastructure resources, allowing for versioning and collaboration
Ansible	An open-source automation tool that automates configuration management, application deployment, and task automation, using a simple YAML-based language
Chef	An open-source automation tool that automates configuration management and application deployment, using a Ruby-based language and a client-server architecture



Term	Definition
Puppet	An open-source automation tool that automates configuration management and application deployment, using a declarative language and a client-server architecture
SaltStack	An open-source automation tool that automates configuration management and application deployment, using a Python-based language and a client-server architecture
Kubernetes	An open-source container orchestration platform that automates deployment, scaling, and management of containerized applications and services
Docker Swarm	A native container orchestration platform that automates deployment, scaling, and management of Docker containers
AWS CloudFormation	A cloud-based infrastructure-as-code tool that automates the deployment and management of AWS resources, using a JSON or YAML-based language
Google Cloud Deployment Manager	A cloud-based infrastructure-as-code tool that automates the deployment and management of Google Cloud Platform resources, using a YAML-based language

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