

Devops Engineers Mostly Used Tools:-

Configuration Management Tools:- Ansible, Puppet, Chef, Saltstacks

CI/CD Tools:- Jenkins, Gitlab, Circle CI, Bamboo

Infrastructure as Code (IaC) Tools:- Terraform, Pulumi, Vagrant

Container Orchestration Tools:- Kubernetes, Docker swarm.

Monitoring and Logging Tools:-

Monitoring Tools:- Prometheus, Grafana, Nagios, Zabbix, Datadog.

Logging Tools:- ELK stack, Fluentd, Splunk, Graylog, Loki

Version control system:- Git, Subversion (svn), Mercurial, Perforce, Helix core, Clear case, TFVC (Team Foundation Version control), Bit bucket

Collaboration and Project Management Tools:-

Collaboration Tools:- Slack, Microsoft Teams, Atlassian - Confluence,

Project Management Tools:- Jira, Trello, Asana

Build Tools:- Maven, Gradle

Tools for a Devops Engineer :-

In a devops job, automation Tools are essential for streamlining processes, Reducing Manual effort, and improving efficiency

Here are some Commonly Used Automation Tools in Devops :-

Configuration Management Tools :-

* **Ansible** :- Ansible an open-source tool for Automating software Provisioning, Configuration Management and application deployment.

* **Puppet** :- Puppet an a Configuration Management tool That allows you to define the state of Your infrastructure as code

* **Chef** :- Chef is an another Configuration Management tool That Uses a Ruby-based domain-specific language for writing system Configurations

Continuous Integration / Continuous Deployment [CI/CD] Tools :-

* **Jenkins** :- Jenkins is an open-source automation server That helps automate The parts of software development related to building, Testing and deploying

* **Gitlab ci/cd** :- A part of GitLab That Provides a powerful ci/cd Pipeline for automating The software delivery Process

* **CircleCI** :- A ci/cd Tool That automates The build, Test and deployment Processes

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"Don't tell people how to do things; tell them what to do and let them surprise you with their results."

Infrastructure as Code (IaC) Tools :-

- * **Terraform** :- Terraform is an open-source tool by Hashicorp for building, changing and versioning infrastructure safely and efficiently
- * **Pulumi** :- Pulumi is a Modern infrastructure as code tool that supports multiple programming languages and cloud platforms

Container Orchestration Tools :-

- * **Kubernetes** :- Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications
- * **Docker Swarm** :- Docker swarm is a container orchestration tool that manages a cluster of Docker nodes

Monitoring and Logging Tools :-

Monitoring * **Prometheus** :- Prometheus is an open-source monitoring and alerting toolkit

Monitoring * **Grafana** :- Grafana is a multiplatform open source analytics and interactive visualization web applications

Logging * **ELK stack** :- [Elasticsearch, Logstash, Kibana] A combination of tools for centralizing, logging and log management

Monitoring * **Nagios** :- Nagios is a powerful open-source monitoring system for servers, applications, and networks

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Version Control System:-

- * **Git** :- Git is a Distributed Version control system Used for Tracking changes in Source code during Software development
- * **GitHub** :- Git hub / Git Lib / Git bucket For hosting Repositories and Collaboration

Collaboration and Project Management Tools:-

- PM Tool** * **Jira** :- Jira is a Project Management tool Used for issue Tracking and Project Management
- Collaboration Tool** * **Confluence** :- Confluence is a Collaboration tool for Organizing and sharing Knowledge
- PM Tool** * **Asana** :- A Project Management Tool that helps Teams Organize, Track, and Manage their work
- Collaboration Tool** * **Slack** :- A Messaging Platform that brings Team communication, and collaboration into one place

Build Tools:-

- * **Maven** :- Maven is a build automation Tool Primarily Used for Java Projects, simplifying the build Process, dependency Management and Project Configuration.
- * **Gradle** :- Gradle is a flexible build Automation tool that supports multiple languages and platforms, known for its Performance and Scalability

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