

DevOps Pipeline

90 Days Of DevOps





February 10, 2023

What is DevOps

The **DevOps** is a combination of two words i.e. Dev + Ops, Dev stands for development and Ops stands for Operations.

To Learn this whole Deployment cycle must learn the following tools:

- Windows, iOS, and Mac OS, Linux is an operating system, It help us to provide security and also a open source kernel so it is free of cost and also light weight. If you are the window friendly user then you can use the virtual box or vmware which help us to provide the virtual environment to host your linux machine. For eg: Redhat, Centos, Ubuntu and much more.
- GIT: It is a version control system which help us to manage our code in

a very efficient ways that will help in our industries which are under the IT sector. **Git** also help us to work simultaneously on a single project.

- folder of our project. All the developers are stored their project repository on the GitHub then they are control their version as well as manage that code easily.
- DOCKER: It is tool that is used to create, deploy and run applications in containers, Basically, Docker is an open source platform for developing, shipping and running applications. Docker enables you to separate your application from your infrastructure, so you can deliver the software quickly.
- real time deployment. They often ask what CD stands for in CI/CD, which can be confusing! CI means Continuous Integration, CD means Continuous Deployment and CD also means Continuous Delivery. For eg: Like if you have a use case i.e. have a git repository on the github and you can connect your jenkins pipeline to the github and the triggers will help us to pull the

- code from the github when the developer and deploy it on the github.
- **KUBERNETES**: Kubernetes, also known as **K8s**, is an open-source system for automating deployment, scaling, and management of containerized applications.
- CIL 0 UD: You can learn any one cloud first like AWS, GCP, Azure and much more but you can only grab your full command on one cloud first then you can switch the cloud easily according to their use case in your industry. I personally recommend you to learn AWS cloud because it will provide you a free tier account for 1 year with minimal services which help us to move ahead in your journey of cloud. After that you can switch any cloud in which you want to move forward.
 - TERR A F O RM: Terraform is a infrastructure as a code tool which help us to manage your infrastructure on a cloud which give you to manage your cloud easily in the today's competitive world.

What is Automation, Scaling, Infrastructure

DevOps automation is the process of removing unnecessary or repetitive tasks to streamline workflows within the DevOps lifecycle. Automation is achieved using tools and process adjustments for faster deliveries and higher quality applications.

In short, it's about **DevOps scaling** practices with security and quality embedded every step of the way. Implementing DevOps best practices can mean a radical shift from the way an organization currently works. It is important that the entire team buys into this new approach.

DevOps infrastructure or Infrastructure Automation under DevOps refers to a concept that revolves around the idea of managing infrastructure with the help of code. This is done with the help of certain tools or programs which can help to carry out the tasks automatically!



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