

This is the beginner friendly version of the DevOps roadmap. Make sure to

Visit the Detailed Version

Find the detailed version of this roadmap along with other similar roadmaps

roadmap.sh

DevOps

**What is DevOps?**

DevOps is all about bringing developers and operations teams together to improve software delivery. The key focus areas are automation, infrastructure and monitoring.

[Look at the FAQs below for more details](#)

Linux

Learn about the file system, package managers, managing services, checking logs, bash scripting, permissions, pipes, output redirection, text manipulation tools, process monitoring, networking tools, CLI editors etc.

[Pick Ubuntu if you have little to no experience.](#)

Learn about containerization. Be comfortable writing dockerfiles. Learn to troubleshoot. Get familiar with Alpine Linux. Learn about security, network and storage.

[Learn docker, networking, storage, and security.](#)

Pick one of the cloud providers AWS, GCP or Azure. Start with core services e.g. AWS VPC, EC2, S3, IAM, and then RDS, Route53, Cloudwatch and ECS.

[Create and deploy some application to AWS.](#)

Learn what is configuration management. Understand roles, playbooks, inventory management and automation.

[Write some automation scripts e.g. db backup](#)

Learn about the concepts of CI/CD and how to implement in your projects using some CI/CD tool. There are several options available in this space, you can pick any one.

[Integrate CI/CD into your app.](#)

At this point, you should have enough knowledge to find a junior to mid-level (maybe even senior) DevOps position at any company depending on the depth of your knowledge. Keep learning and building projects till you find a job. Your job will teach you a lot as well.

Continue learning with following roadmap

Visit Detailed DevOps Roadmap

Programming Language

Python

Go

**Pick any Programming Language**

You can pick any programming language. The goal is to learn the programming skills that you can use to write automation scripts.

Learn about DNS, TCP/IP Protocols, SSH, Ports, Gateways, Routing, IP Addressing, and subnetting.

[Handy with deployments & troubleshooting](#)

Networking & Protocols

Docker

Git

GitHub

DevOps teams usually practice "git ops" i.e. making changes to any operations related activity require a pull request against a git repository.

[Learn about git, create your GitHub profile.](#)

AWS

Learn what IaC means. Learn about terraform and how to automate infrastructure creation.

[If you deployed an application to AWS in previous step, destroy the infrastructure and recreate it using terraform.](#)

Terraform

Ansible

GitHub Actions

Nginx is commonly used for web servings, reverse proxying, caching, load balancing, media streaming and more.

[Learn the basic config options, TLS setup, rate limiting, caching etc.](#)

Nginx