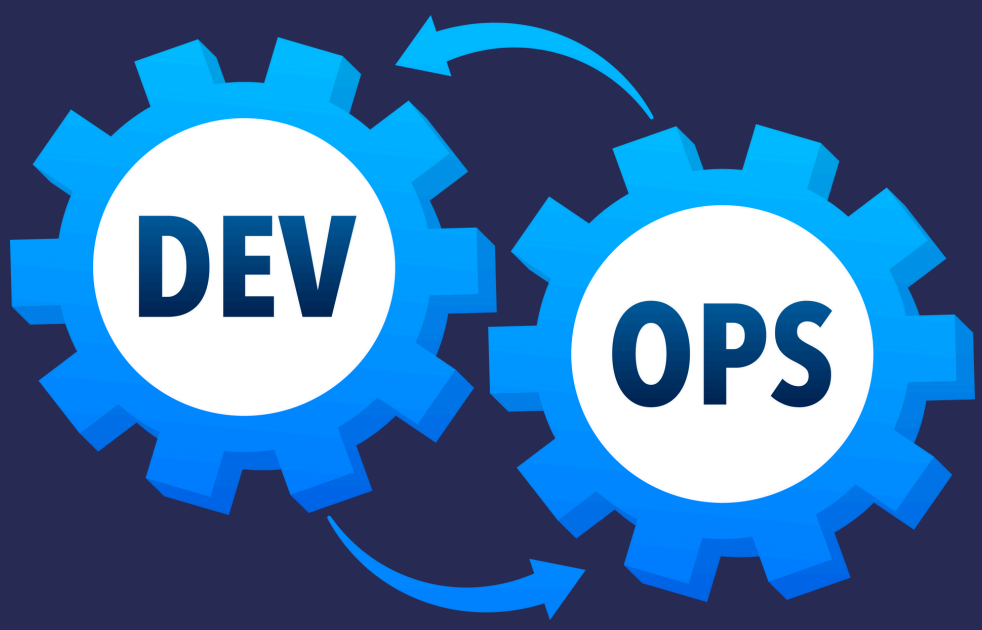
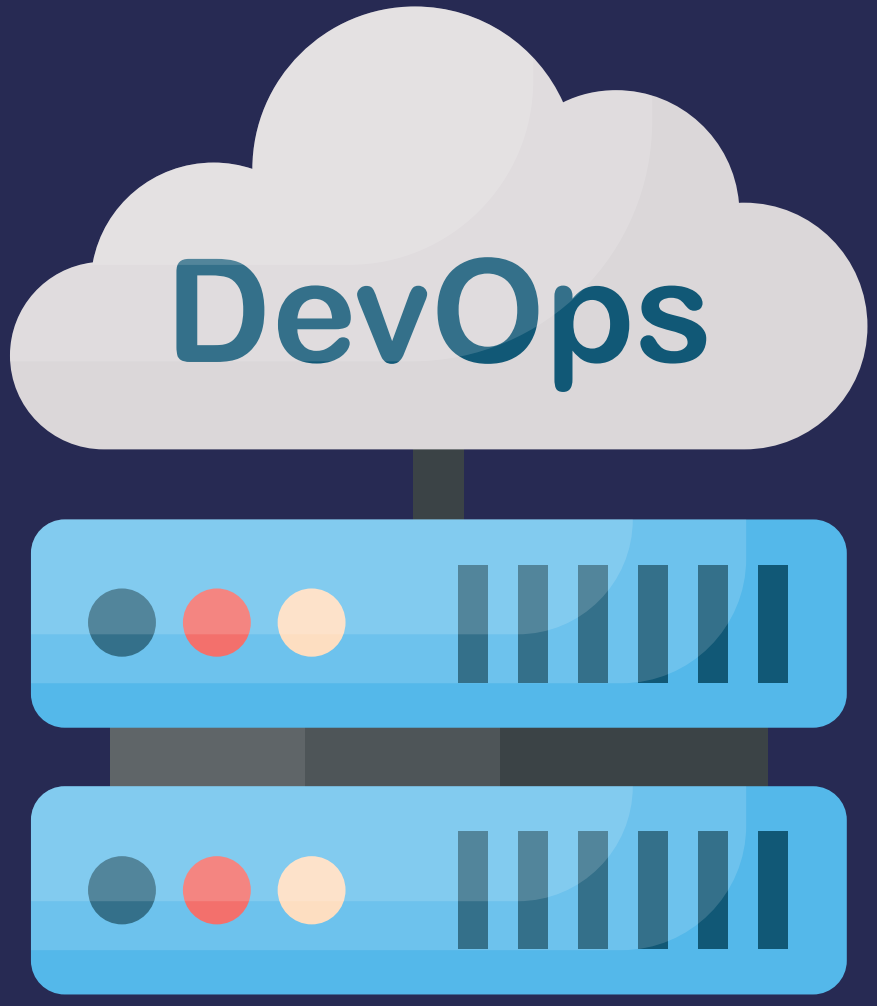
Simple Roadmap To Become A

DevOps

ENGINEER





By SHAILESH SHAKYA @BEGINNERSBLOG.ORG

What is a DevOps Engineer?

A DevOps Engineer is like a bridge builder, connecting the world of software development (Dev) with IT operations (Ops). They use their tech skills and collaborative mindset to automate and streamline how software is built, tested, and delivered.

Step 1: Build Your Foundation

Linux:

Dive into the command line. Practice file management, permissions, networking commands, and basic Bash scripting.

Resource: [Complete Linux Training Course to Get Your Dream IT Job 2024] (Udemy)

Continue...

Networking:

Understand IP addresses, routing, firewalls, and how applications communicate.

Resource: [Networking Fundamentals for AWS] (Simplilearn)

Continue...

Cloud:

Choose one major cloud provider (AWS, Azure, GCP) and create a free tier account. Get hands-on with virtual machines, storage, and networking.

Resource:

- **AWS:** [AWS Certified Cloud Practitioner Essentials] (Coursera)
- **Azure:** [Microsoft Azure Fundamentals] (Coursera)
- **GCP:** [Google Cloud Fundamentals: Core Infrastructure] (Coursera)

Continue...

Code:

Learn Python basics (variables, loops, functions). Set up a GitHub account and learn the basics of Git.

Resource:

- Python: [Python for Everybody Specialization] (Coursera)
- Git: [Git Complete: The definitive, step-by-step guide to Git] (Udemy)

Step 2: Embrace the DevOps Philosophy

Research the core principles of DevOps: collaboration, automation, continuous improvement. Read blog posts and articles about real-world DevOps implementations.

Resource:

- [The DevOps Handbook] (Book)
- [DevOps Culture and Mindset] (LinkedIn Learning)

3: Master the Tools

Infrastructure as Code (IaC):
Choose Terraform and learn how to define and provision infrastructure using code.

Resource: [Terraform Associate Certification Preparation Guide] (HashiCorp Learn)

Continue…

CI/CD:

Set up a simple Jenkins pipeline to automatically build and deploy a sample application.

Resource: [Jenkins: Beginner To Pro] (Udemy)

Continue…

Monitoring:

Explore Prometheus and Grafana for collecting and visualizing metrics from your applications and infrastructure.

Resource: Mastering Prometheus and Grafana (Including Loki & Alloy)] (Udemy)

Continue…

Containers:

Start with Docker. Learn how to build and run containerized applications.

Resource: [Docker Mastery: with Kubernetes +Swarm from a Docker Captain] (Udemy)

Step 4: Gain Hands-On Experience

Build personal projects. Set up a home lab using old hardware or virtual machines. Contribute to open-source projects. Practice on cloud platforms.

Resource: [Instruqt] (Interactive learning platform for various DevOps tools)

Step 5: Never Stop Learning

Stay up-to-date with industry trends. Subscribe to DevOps blogs, follow influential figures on social media, attend meetups and conferences (when possible).

Resource:

- [DevOps.com] (News and Articles)
- [The DevOps Institute] (Community and Certifications)

Created by Shailesh Shakya

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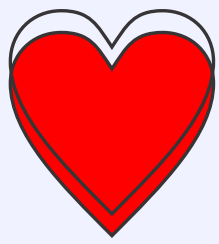

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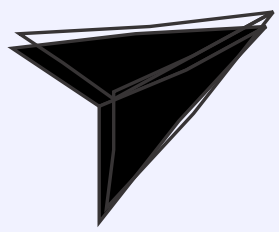

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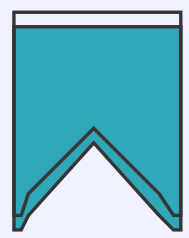

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