



DevOps Engineer Roadmap – By RanchoFullstack

This is your step-by-step roadmap to become a **DevOps Engineer** in just **60–75 days**
Follow daily, build projects, and stay consistent. Let's go! 🚀


1. Foundations (7–10 days)

- Learn OS Concepts (Processes, Threads, Memory, I/O)
 - Master Linux basics (Ubuntu/CentOS CLI)
 - Understand Networking (DNS, HTTP/HTTPS, SSH, Ports, Firewalls)
 **Why this matters:** Most servers run on Linux. You need OS & network knowledge for deployments and troubleshooting.
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2. Version Control (3–4 days)

- Git (clone, commit, push, branch, merge)
 - GitHub (Pull Requests, Issues, Actions)
 **Why this matters:** Source control is the backbone of all DevOps pipelines and team collaboration.
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3. CI/CD (5–7 days)

- Jenkins
 - GitHub Actions
 **Why this matters:** Automates code testing, building, and deployment — faster, safer delivery.
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4. Containers (5 days)

- Docker (Images, Containers, Dockerfile)
 - Docker Compose (Multi-container apps)
 - 📌 **Why this matters:** Ensures your app runs identically across dev, test, and production environments.
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⚙️ 5. Kubernetes (7–10 days)

- Pods, Services, Deployments, Helm
 - Practice using Minikube or Play with K8s
 - 📌 **Why this matters:** Manages & scales containers efficiently. Standard for production deployments.
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☁️ 6. Cloud Platforms (8–10 days)

- Choose one: AWS / GCP / Azure
 - Learn EC2, S3, IAM, VPC, CloudWatch (if AWS)
 - 📌 **Why this matters:** Apps are hosted on cloud. You must know how to deploy, monitor, and scale there.
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📊 7. Monitoring & Logging (4–5 days)


- Prometheus + Grafana
 - ELK Stack (Elasticsearch, Logstash, Kibana)
 - 📌 **Why this matters:** Helps you detect and debug issues in real time.
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🧠 8. Scripting & Automation (5–7 days)


- Bash scripting / Python / Shell
- YAML & JSON for configs
 - 📌 **Why this matters:** Automates server tasks, backups, deployments. Essential for

real-world workflows.

9. Tools to Explore (5–6 days)

- Terraform (Infrastructure as Code)
 - Ansible (Configuration Management)
 - Nexus / Artifactory (Artifact storage)
 **Why this matters:** Makes infrastructure repeatable and manageable. Required in big teams.
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10. Projects & Practice (10–15 days)

- Build CI/CD pipeline for Node.js / Python app
 - Dockerize it & deploy via Kubernetes
 - Host on AWS / GCP
 - Push to GitHub & write a solid README
 **Why this matters:** Projects prove your skills. Great for portfolio & job applications.
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Final Advice:

- Total Time: **60–75 days** (1–2 hrs/day)
 - Be consistent — daily effort matters more than perfection
 - Keep improving your GitHub & LinkedIn profile
 - Ask questions, join communities, stay active!
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