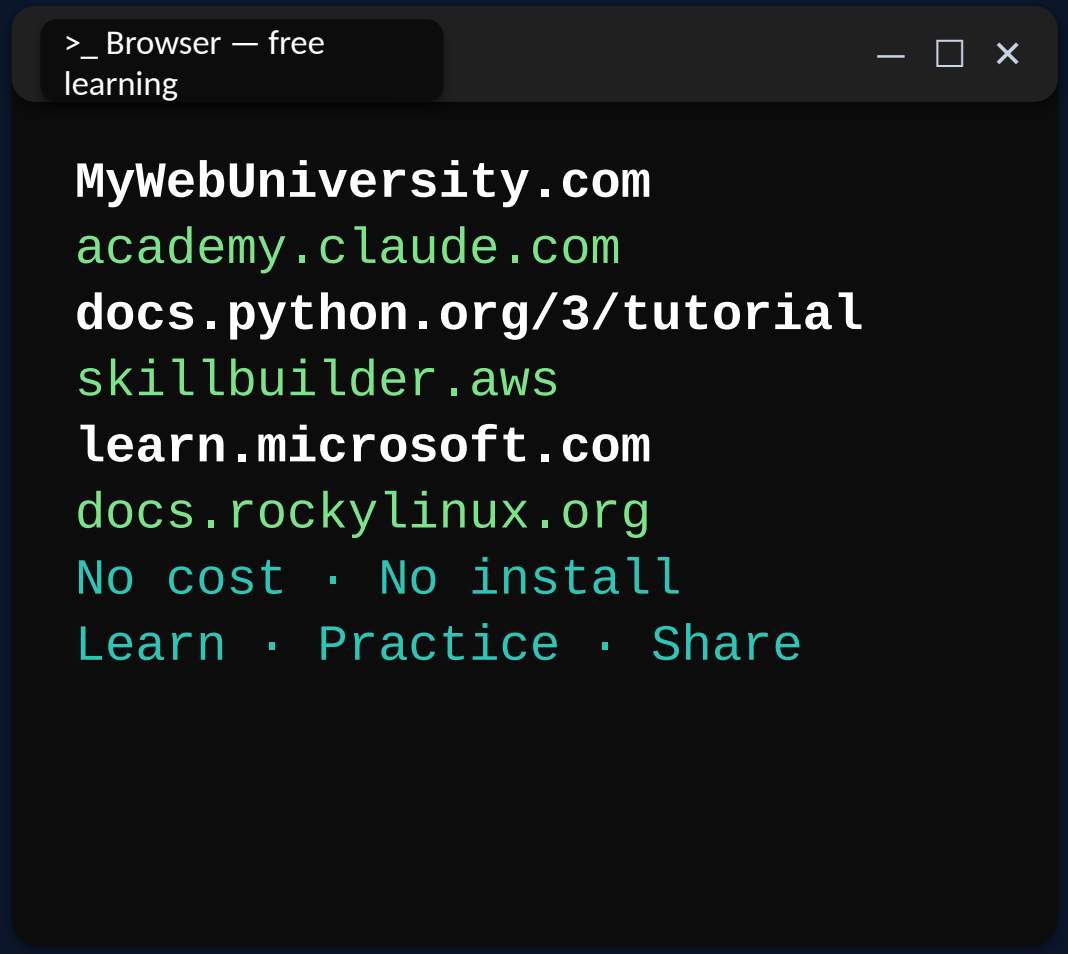


LESSON 5 OF 12

Free Learning Websites

Linux · Python · AI · Cloud · Security · Claude

DevOps & Tech: roadmap.sh, freeCodeCamp & Killercoda Labs

Full Course · Free learning sites · checked Nov 2026

What You Will Learn in Lesson 5

- roadmap.sh: free step-by-step roadmaps (DevOps, Linux, Python, AI)
- freeCodeCamp: free curriculum, certifications and long videos
- Killercoda: browser labs for Linux, Docker and Kubernetes
- GitHub Skills: learn Git and GitHub Actions by doing
- A free DevOps learning path
- Building a portfolio as you learn
- Where MyWebUniversity fits

roadmap.sh

Feature	What you get
Role roadmaps	DevOps, Linux, Backend, Python, AI Engineer, Cyber Security, AWS
Skill roadmaps	Docker, Kubernetes, Git and GitHub, SQL, Terraform
Each topic	Short explanation + free links to articles, docs and videos
Progress	Free account to mark topics done
Projects	Project ideas by level to practice each roadmap
Use it as	Your table of contents — then learn on other free sites

freeCodeCamp

Feature	What you get
Curriculum	Interactive lessons in the browser: HTML/CSS, JavaScript, Python, SQL
Certifications	Free verified certifications after projects and exams
Relational databases	Bash, SQL, PostgreSQL and Git through hands-on projects
News articles	Thousands of free tutorials and full-length handbooks
YouTube channel	Long free courses: Linux, DevOps, Docker, Kubernetes, AWS, AI
Nonprofit	Donor-supported; no paywall

Killercoda: Labs in Your Browser

Feature	Notes
What	Real Linux machines and Kubernetes clusters in a browser tab
Scenarios	Linux basics, Bash, Docker, Podman, Kubernetes, Helm, Terraform, Ansible
Playgrounds	Empty Ubuntu or Kubernetes environment to try anything
Free tier	Free sessions with a time limit; paid plan adds longer sessions
Exam prep	Popular for CKA / CKAD / CKS practice
Safety	Disposable lab — nothing touches your own computer

A First Killercoda Session

```
# killercoda.com › Playgrounds › Ubuntu (or Kubernetes)
ubuntu:~$ cat /etc/os-release | head -2
ubuntu:~$ sudo apt update && sudo apt install -y tree
ubuntu:~$ docker run --rm hello-world          # if Docker is available
controlplane:~$ kubectl get nodes               # Kubernetes playground
NAME           STATUS   ROLES           AGE
controlplane   Ready    control-plane   2m
node01         Ready    <none>          2m
controlplane:~$ kubectl create deployment web --image=nginx
controlplane:~$ kubectl get pods -w
```

GitHub Skills and Git Practice

Resource	What you learn
skills.github.com	Free interactive courses run inside your own repository
Introduction to GitHub	Branches, commits, pull requests
GitHub Actions	Your first CI workflow: test on every push
Pages	Publish a free portfolio website
git-scm.com/book	Pro Git book — free online
Tip	Commit your notes and scripts daily — that is your portfolio

A Free DevOps Learning Path

Step	Where (free)
1. Linux + command line	MyWebUniversity, LinuxOnBrowser, Linux Journey, LFS101
2. Bash and Python scripting	MyWebUniversity, python.org tutorial
3. Git and GitHub	GitHub Skills, Pro Git book
4. Networking basics	Cisco NetAcad Networking Basics (lesson 9)
5. Containers	Killercoda Docker/Podman, freeCodeCamp videos
6. Kubernetes	Killercoda, Kubernetes docs tutorials
7. Automation + cloud	Ansible (Red Hat, Rocky books), AWS Skill Builder
8. CI/CD + monitoring	GitHub Actions, roadmap.sh DevOps projects

Build a Portfolio as You Learn

Project	Shows
Bash script that backs up a folder	Linux, cron, permissions
Python site checker (lesson 4) + GitHub Actions	Scripting, CI
Dockerfile for a small web app	Containers
Kubernetes deployment + service YAML	Orchestration
Ansible playbook for a LAMP server	Automation
README with diagrams and lessons learned	Communication

Summary and Homework

- roadmap.sh: free roadmaps — your table of contents
- freeCodeCamp: free interactive curriculum, certifications, long videos
- Killercoda: free browser labs for Linux, Docker, Kubernetes
- GitHub Skills + Pro Git: learn Git by doing
- Follow the 8-step free DevOps path; build portfolio projects
- Homework: open the roadmap.sh DevOps roadmap and run one Killercoda scenario

Thank You! 🙏

Free videos & PDFs: www.MyWebUniversity.com

Slides for this lesson: MyWebUniversity.com/presentations

YouTube: @MyWebUniversity · @MyWebUniversity-Dari

Wahidullah Lutfy — Founder and Director of IT of MyWebUniversity, and CS teacher

Book: The Direct Path to Linux Ubuntu (Amazon · Barnes & Noble)

Learn it, then pass it on.