

■ 6-Week DevOps Interview Preparation Roadmap

Week 1 – Foundations & Scripting Basics

- Learn basic Linux commands: ls, cd, grep, awk, sed, ps, top, df, du, systemctl
- Practice Bash scripting (loops, conditions, functions). Resource: Linux Journey, Bash Scripting Tutorial
- Python basics: variables, loops, functions, file handling, error handling
- Practice automation scripts: rename files, parse logs, call APIs (requests library). Resource: Automate the Boring Stuff with Python

Week 2 – Git, Documentation & APIs

- Learn Git basics: clone, commit, push, pull, branching, merging, conflicts. Resource: Atlassian Git Tutorial
- Practice documentation with Markdown and READMEs
- Understand REST & SOAP APIs (GET, POST, PUT, DELETE). Practice with Postman & curl. Resource: Postman Beginner Tutorial

Week 3 – AWS Core Services

- AWS IAM: users, roles, policies
- AWS S3: buckets, permissions, versioning
- AWS EC2: launch, SSH, install apps. Resource: AWS Free Tier, FreeCodeCamp AWS Basics
- Networking basics with Route 53 (DNS records: A, CNAME, MX, TXT)

Week 4 – CI/CD & Automation

- Jenkins: Install, create pipelines (Freestyle & Declarative), integrate GitHub. Resource: Jenkins Beginner Tutorial
- AWS DevOps Tools: CodeCommit, CodeBuild, CodeDeploy, CodePipeline. Resource: AWS CI/CD Workshop

Week 5 – Advanced AWS & Automation QA

- AWS Lambda basics (serverless)
- CloudFormation basics (Infrastructure as Code)
- Secrets Manager & Cognito basics
- Automation QA: pytest for API validation & infrastructure tests

Week 6 – Mock Interviews & Projects

- Mini Projects: Deploy app on EC2 with S3 hosting, automate with Jenkins pipeline, Python API script
- Mock Interviews: Prepare for CI/CD, AWS, scripting questions
- Final Prep: Revise AWS services, explain projects confidently