DevOps syllabus

Novosys Academy · DevOps training · Bangalore · online and offline

Standard outline
Duration: ask us

The DevOps track is taught in nine modules, in order. Each module ends in a lab you run yourself, and the capstone brings the modules together into one project you can explain in an interview.

Modules

01 **Linux and the shell**
Navigation, files and permissions, processes and users, pipes and redirects, and small shell scripts.

02 **Git and GitHub workflow**
Commits, branches, merges, rebase basics, pull requests and the review habits teams rely on.

03 **Docker**
Images, containers, Dockerfiles, layers and caching, multi-stage builds, volumes, networking and choosing base images.

04 **Kubernetes**
Architecture, pods, deployments, services, rollouts and rollbacks, config and secrets, and troubleshooting with kubectl.

05 **CI/CD with Jenkins and GitHub Actions**
Pipelines as code, build and test stages, artifacts, environments, secrets and manual approvals.

06 **Terraform and infrastructure as code**
Providers, resources, variables and outputs, the init, plan, apply and destroy cycle, state, and modules.

07 **AWS for DevOps**
IAM users and roles, networking basics (VPC, subnets, security groups), EC2, S3, and deploying a service end to end.

08 **Monitoring and logs**
Prometheus metrics, Grafana dashboards, log basics, and a repeatable way to find a fault.

09 **Capstone project**
One project carried from code to a monitored deployment, reviewed live with the trainer.

Tools

Linux Git GitHub Docker Kubernetes Jenkins GitHub Actions Terraform AWS Prometheus Grafana

Format and fees

Online (live, instructor-led, with labs) and offline (in person in Bangalore) batches. Batch dates, days and seats are on the batches page. Fees are shared when you ask.

Please note. This is the standard outline. Your batch may be tailored, and we tell you what changed before you enroll. Duration is confirmed with each batch. No placement is promised.

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