DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

DevOps With Git Docker Ansible Terraform Jenkins Advanced Training

Design a scalable, governed DevOps platform with hardened images, policy-checked infrastructure, safe release strategies and measured delivery performance.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	53 topics · Foundation to Advanced
Hands-on labs	4 labs
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/devops/devops-with-git-docker-ansible-terraform-jenkins-advance-training.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the DevOps With Git Docker Ansible Terraform Jenkins course path, you will be able to:

1

Automate code to production

Build Jenkins pipelines that take code from Git to a tested Docker image and a deployed environment without manual steps.

2

Codify infrastructure and configuration

Provision cloud infrastructure with Terraform and configure servers repeatably with Ansible playbooks and roles.

3

Run DevOps at team scale

Apply branching, security, governance and scaling practices that keep the toolchain reliable as teams and services grow.

WHAT THE ADVANCED LEVEL ADDS

Scale, hardening, governance and capstone

Hands-on: Capstone: governed delivery platform. Build a complete delivery platform where Jenkins on Kubernetes agents ships a signed, hardened image to Terraform-provisioned infrastructure through an Ansible blue-green release with policy checks and DORA reporting.

WHO SHOULD ATTEND

- Experienced DevOps With Git Docker Ansible Terraform Jenkins practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot DevOps With Git Docker Ansible Terraform Jenkins solutions.
- Teams making DevOps With Git Docker Ansible Terraform Jenkins an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Automate a full CI/CD flow across all five tools with quality gates, secrets handling, testing of infrastructure code and structured troubleshooting.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ADVANCED

DevOps With Git Docker Ansible Terraform Jenkins Advanced Training agenda

53 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: DevOps basics and the five-tool toolchain

Included from Foundation

1. Kickoff and DevOps introduction: welcome and registration, course objectives, what DevOps is and its importance in modern software
2. DevOps principles and practices: benefits, culture, mindset, lifecycle stages, Continuous Integration and Continuous Delivery, tool roles
3. Introduction to Git: why version control is essential, Git and its significance, setting up Git and configuring user details
4. Git basics: repositories, commits and branches, making changes and committing, Git workflows and collaborative practices
5. Git in DevOps workflows: version control in a CI/CD pipeline, code collaboration, branching strategies such as feature branching and Gitflow
6. Git practices: commit messages, code reviews, handling and resolving merge conflicts, code quality and security checks with Git hooks
7. Git integration and automation: integrating Git with CI/CD pipelines, automated testing and deployment triggered from Git
8. Introduction to Docker: what Docker is, architecture and components, installing Docker, basic Docker commands
9. Docker images, containers and Compose: creating images, running containers, defining multi-container applications with Docker Compose
10. Docker networking and volumes: networking concepts, managing data with volumes, Docker best practices and common mistakes to avoid
11. Ansible: key components, installing, configuration and hosts file, playbook structure, creating and executing playbooks, CLI options
12. Terraform: concepts, installing, config files, initializing and applying, state files, resources, provisioners, interpolations, variables
13. Jenkins: key concepts, installing and setting up, first freestyle job with Git SCM, a simple pipeline, installing plugins to extend it
14. Best practices and wrap-up: Ansible and Terraform coding guidelines, Jenkins pitfalls, open Q and A, takeaways, certification information

DAY 2 — Essential: Everyday team usage of each tool

Included from Essential

15. Git daily workflow: git stash, rebase vs merge, cherry-pick, tags and semantic versioning, git log and git diff for reviews
16. Pull requests: GitHub and GitLab merge requests, review rules, protected branches, linking commits to issues
17. Dockerfile authoring: FROM, RUN, COPY, ENTRYPOINT vs CMD, layer caching, .dockerignore, multi-stage builds
18. Image registries: tagging conventions, docker push and pull, Docker Hub and private registries, registry credentials
19. Docker Compose for teams: compose.yaml services, env files, depends_on with healthchecks, profiles, docker compose up, down and logs
20. Ansible inventory and variables: inventory groups, group_vars and host_vars, variable precedence, facts and ad-hoc commands

21. Ansible playbook features: handlers, loops, conditionals with when, Jinja2 rendering of .j2 files, tags, check mode and --diff
22. Ansible roles: role directory layout, ansible-galaxy role init, reusing collections from Ansible Galaxy, requirements.yml
23. Terraform variables and outputs: input variables, tfvars files, locals, outputs, data sources, saved plans with terraform plan -out
24. Terraform modules: writing a module, module inputs and outputs, using public registry modules, version pinning
25. Terraform remote state: S3 or Azure Blob backends, state locking, terraform state list and mv, workspaces per environment
26. Jenkinsfile: declarative pipeline syntax, stages, steps, post conditions, environment and parameters, pipeline as code in Git
27. Jenkins for teams: multibranch pipelines, GitHub and GitLab webhooks, credentials store, SSH build agents, user permissions

DAY 3 **Intermediate: Pipeline automation, integrations, security and troubleshooting** Included from Intermediate

28. End-to-end CI/CD design: commit, build, test, image build and push, Terraform provisioning, Ansible configuration, deployment
29. Jenkins pipeline automation: parallel stages, Docker agents, stash and unstash, input approvals, archived artifacts, JUnit reports
30. Jenkins shared libraries: vars global steps, src classes, library versioning, reusing pipeline steps across repositories
31. Code quality gates: SonarQube analysis from Jenkins, waitForQualityGate, coverage thresholds, failing builds on gate results
32. Container security basics: Trivy image scanning in CI, non-root USER, minimal base images, SBOM generation with docker scout or Syft
33. Secrets handling: Jenkins credentials binding, ansible-vault encryption, Terraform sensitive variables, keeping secrets out of Git
34. Ansible automation: dynamic inventory with the aws_ec2 plugin, delegate_to, serial rolling updates, role testing with Molecule
35. Terraform workflow quality: fmt, validate, tflint, terraform test, import blocks, count vs for_each, moved blocks for refactoring
36. Docker administration: docker system df and prune, logging drivers, --cpus and --memory limits, restart policies, healthchecks
37. Git automation: pre-commit framework hooks, commit message linting, automated release tagging, pipelines triggered by tags
38. Jenkins administration: plugin updates, global tool configuration, JENKINS_HOME backup, matrix or role-based authorization
39. Troubleshooting toolkit: docker logs, inspect and exec, ansible -vvv and --step, TF_LOG=DEBUG, Jenkins console output and replay
40. Pipeline notifications: Slack and email alerts from Jenkins, build status reported back to Git commits and pull requests

DAYS 4-5 **Advanced: Scale, hardening, governance and capstone** **New at this level**

41. Jenkins at scale: controller and agent architecture, ephemeral Kubernetes agents, executor sizing, Configuration as Code (JCasC)

42. Jenkins resilience: controller backup and restore, pipeline durability settings, monitoring Jenkins with the Prometheus plugin
43. Terraform at enterprise scale: state split per component, private module registry and versioning, Terragrunt for DRY environments
44. Infrastructure governance: policy as code with OPA and Conftest or Sentinel, scheduled drift detection, cost estimates with Infracost
45. Ansible at scale: AWX or Ansible Automation Platform, execution environments, forks, pipelining, fact caching, free strategy
46. Docker image hardening: distroless or slim bases, rootless Docker, read-only filesystems, dropped capabilities, cosign image signing
47. Supply chain security: SBOMs, signed commits, provenance attestations, base images pinned by digest, dependency updates with Renovate
48. Git governance: trunk-based development, CODEOWNERS, branch protection with required status checks, monorepo vs polyrepo
49. Release strategies: blue-green, canary and rolling deployments with Ansible and load balancers, automated rollback
50. GitOps handoff: promoting images to Kubernetes, pull-based delivery with Argo CD or Flux, environment promotion flows
51. Measuring delivery: DORA metrics (deployment frequency, lead time, change failure rate, time to restore), pipeline analytics
52. Migration patterns: freestyle jobs to Jenkinsfiles, importing manual infrastructure into Terraform, shell scripts to Ansible roles
53. Capstone project: Git to Jenkins pipeline, hardened Docker image, Terraform-provisioned cloud stack, Ansible release with rollback drill

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

First end-to-end toolchain walk-through

Commit an app to Git, containerise it with Docker, provision a host with Terraform, configure it with an Ansible playbook and trigger a simple Jenkins pipeline.

ESSENTIAL

Team pipeline from pull request to container

Build a Jenkins multibranch pipeline that runs on every pull request, builds a multi-stage Docker image, pushes it to a registry and deploys it with an Ansible role to a Terraform-module host.

INTERMEDIATE

Gated CI/CD pipeline with security checks

Extend the team pipeline with a Jenkins shared library, SonarQube and Trivy gates, credentials binding and ansible-vault for secrets, and a terraform test stage before deploy.

ADVANCED

Capstone: governed delivery platform

Build a complete delivery platform where Jenkins on Kubernetes agents ships a signed, hardened image to Terraform-provisioned infrastructure through an Ansible blue-green release with policy checks and DORA reporting.

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	All four DevOps With Git Docker Ansible Terraform Jenkins levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	5 days for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative).	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR DEVOPS WITH GIT DOCKER ANSIBLE TERRAFORM JENKINS TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/devops/

ENROL OR RESERVE A SEAT
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