DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Concourse Advanced Training

Run Concourse as a governed production platform with HA, capacity planning, supply chain security and a migration strategy.

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	43 topics · Foundation to Advanced
Hands-on labs	4 labs
Formats and fees	Live, 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/concourse/concourse-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 Concourse course path, you will be able to:

1

Build pipelines in Concourse

Compose resources, tasks and jobs into pipelines you can trigger, monitor and debug.

2

Make pipelines robust

Use secrets, hooks, custom resources, image builds and dynamic pipelines.

3

Run Concourse in production

Install, scale, secure and govern Concourse for many teams.

WHAT THE ADVANCED LEVEL ADDS

Production architecture, governance and migration

Hands-on: Governed Concourse platform capstone. Design and document an HA Concourse platform for several teams with conventions, DR, supply chain checks and a migration plan.

WHO SHOULD ATTEND

- Experienced Concourse practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Concourse solutions.
- Teams making Concourse an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Generate dynamic pipelines, install and operate Concourse on Kubernetes or BOSH and deploy applications from pipelines.
- 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

Concourse Advanced Training agenda

43 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: Concourse building blocks and first pipeline

Included from Foundation

1. What Concourse is: pipeline-first CI/CD with containerized builds; checking your Concourse version
2. Core building blocks: resources, jobs, tasks and steps and how they form a pipeline
3. Architecture: web node (ATC and TSA), workers and PostgreSQL; logging in with fly
4. Local setup: running Concourse with Docker Compose and targeting it with fly
5. Roles and access: owner, member, pipeline-operator and viewer
6. Web dashboard: pipeline view, builds and pausing; deploying a pipeline with fly set-pipeline
7. Tasks: task YAML, image_resource, inputs, outputs and params; building tasks hands-on
8. Resources: check, get and put with git, time and registry-image resources
9. Jobs: plans, trigger: true and passed constraints in a pipeline with multiple jobs
10. Project structure: pipeline YAML, task files and scripts in a ci/ directory
11. Parameters: ((var)) syntax and var files with -l; creating and using pipeline parameters
12. Organizing and triggering: groups, fly trigger-job and managing and changing pipelines
13. Monitoring and running pipelines: fly builds, fly watch and fly intercept for troubleshooting

DAY 2 — Essential: Hooks, secrets, custom resources and auth

Included from Essential

14. Step modifiers and hooks: in_parallel, try, ensure, on_failure, timeout and attempts
15. Secrets: Vault and CredHub credential managers, ((secret)) lookups and redaction
16. Custom resource types: writing check, in and out scripts and publishing the image
17. Image building: oci-build-task, layer caching and registry-image push
18. Teams and auth: GitHub, GitLab, OIDC and LDAP connectors with fly set-team
19. Local iteration: fly execute with local inputs and fly validate-pipeline
20. Resource versions: pinning, disabling versions and check intervals
21. Notifications and status: Slack alerts and GitHub commit status updates
22. Testing workflow: unit and integration tests as tasks and artifacts between jobs
23. Reusable tasks: task files shared across pipelines with file:

DAY 3 — Intermediate: Dynamic pipelines, installation and observability

Included from Intermediate

24. Dynamic pipelines: set_pipeline step, instanced pipelines and the across step
25. Generating pipeline YAML: ytt, YAML anchors and Jsonnet
26. Installation: Helm chart on Kubernetes and BOSH deployments
27. Worker management: tags, Windows and macOS workers and container runtime choice
28. Observability: Prometheus or Datadog metrics, build event logs and tracing
29. Security basics: TLS termination, database encryption key and least privilege
30. Webhooks: webhook_token to trigger resource checks

31. Deploy pipelines: Kubernetes, Terraform and cloud deployments
32. Concurrency control: serial, serial_groups and max_in_flight
33. Troubleshooting: stalled workers, orphaned containers and volume garbage collection

DAYS 4-5 **Advanced: Production architecture, governance and migration** — **New at this level**

34. Production architecture: multiple web nodes, worker pools and PostgreSQL HA
35. Capacity: container placement strategies, build concurrency and check load
36. Upgrades: release notes review, database migrations and rollback planning
37. Governance: team design, pipeline conventions and audit trail
38. Supply chain security: SBOM, vulnerability scanning and image signing in pipelines
39. Disaster recovery: database backups and encryption key rotation
40. Platform operating model: self-service pipelines for many teams
41. Migration: moving from Jenkins or other CI systems to Concourse
42. Cost and efficiency: worker sizing, ephemeral workers and caching
43. Capstone: governed multi-team Concourse platform

PRACTICE

Hands-on labs

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

FOUNDATION

Create your first Concourse pipeline

Run Concourse locally and build a pipeline that runs tests on every Git commit and promotes passing builds to a packaging job.

ESSENTIAL

Build a robust image pipeline

Add Vault secrets, retries and failure hooks to a pipeline that builds, tests and publishes a container image with commit status updates.

INTERMEDIATE

Deploy apps from dynamic pipelines

Install Concourse on Kubernetes, generate per-service pipelines with ytt and deploy each service to a cluster with Terraform and kubectl tasks.

ADVANCED

Governed Concourse platform capstone

Design and document an HA Concourse platform for several teams with conventions, DR, supply chain checks and a migration plan.

HOW YOU CAN LEARN

Formats and fees

The same agenda in three 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**
Self-paced video	1-year LMS access	All four Concourse 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). 1:1 training is also available on demand.	**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 CONCOURSE 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. Corporate and 1:1 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/concourse/

ENROL OR RESERVE A SEAT
Concourse Advanced Training

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