DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

Kapitan Essential Training

Build reusable components with Jsonnet, Kadet and Helm inputs and manage secrets safely with Kapitan refs.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **2 days · Days 1-2**	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 · This curriculum	3 days · Next step	5 days · Later

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	23 topics · Foundation to Essential
Hands-on labs	2 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/kapitan/kapitan-essential-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 Kapitan course path, you will be able to:

1

Model configuration once

Describe every environment in a single Kapitan inventory and generate consistent manifests from it.

2

Manage secrets safely

Keep secrets encrypted in Git with Kapitan refs and reveal them only at deploy time.

3

Automate delivery with GitOps

Compile, validate and ship Kapitan output through CI pipelines and GitOps tools.

WHAT THE ESSENTIAL LEVEL ADDS

Jsonnet, Kadet, Helm inputs and secrets

Hands-on: Deploy an application with Kapitan secrets. Package an application as a Jsonnet or Kadet component, add a database password as a gkms or gpg ref and deploy the revealed manifests to a cluster.

WHO SHOULD ATTEND

- Learners who know the basics of Kapitan and want to use it confidently every day.
- Professionals taking over Kapitan work on a live project.
- Teams agreeing on a common way of working with Kapitan.

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Install Kapitan, model environments in an inventory and compile your first manifests from one source.
- 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 ESSENTIAL

Kapitan Essential Training agenda

23 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: Kapitan concepts, inventory and first compile

Included from Foundation

1. What Kapitan is: a configuration management tool that generates Kubernetes, Terraform, scripts and docs from one inventory
2. Why Kapitan: removing duplication across environments compared with Helm, Kustomize and plain Jsonnet
3. Installing Kapitan: pip install kapitan, the kapicorp/kapitan container image and kapitan --version
4. Project layout: inventory/targets, inventory/classes, components, Jinja2 sources and the compiled directory
5. Inventory basics: targets and classes in YAML, parameters and class inheritance
6. Parameter interpolation: ${...} references between parameters and target-specific variables
7. Inspecting the inventory: kapitan inventory -t and kapitan searchvar
8. First compile: kapitan compile, selecting targets with -t and reading the compiled output
9. Input types overview: jinja2, jsonnet, kadet (Python), helm, copy and external
10. Jinja2 input: rendering text files, scripts and README documentation from inventory values
11. Kapitan with Git: committing compiled output and reviewing diffs as the change record

DAY 2 — Essential: Jsonnet, Kadet, Helm inputs and secrets

New at this level

12. Jsonnet input: writing Kubernetes manifests in Jsonnet and reading the inventory through kapitan.libsonnet
13. Kadet input: generating manifests in Python with BaseObj and kadet components
14. Helm input: rendering upstream Helm charts with values taken from the inventory
15. Output types: yaml, json and plain output, and setting output_path per component
16. Compile configuration: parameters.kapitan.compile entries with input_type, input_paths and output_type
17. External dependencies: fetching Git repositories, HTTP files and Helm charts with --fetch
18. Secrets with refs: the ?{...} reference syntax and kapitan refs --write and --reveal
19. Ref backends: plain, base64, gpg, gkms, awskms, azkms, vaultkv and vaulttransit
20. Generated secrets: random strings, RSA keys and base64 functions in ref definitions
21. Reusable classes: common, environment and component classes, overriding parameters per target
22. Validation: kapitan validate against Kubernetes schemas and kapitan lint for unused classes and refs
23. Team workflow: target-per-environment conventions, review of compiled diffs and pre-commit hooks

PRACTICE

Hands-on labs

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

FOUNDATION

Compile two environments from one inventory

Create dev and prod targets that share classes, override a few parameters per target and compile Kubernetes manifests and a README for both.

ESSENTIAL

Deploy an application with Kapitan secrets

Package an application as a Jsonnet or Kadet component, add a database password as a gkms or gpg ref and deploy the revealed manifests to a cluster.

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 Kapitan levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	2 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 KAPITAN 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/kapitan/

ENROL OR RESERVE A SEAT
Kapitan Essential Training

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Next step after this level: Kapitan Intermediate Training - Automate Kapitan with generators, CI pipelines and GitOps delivery while keeping secrets out of Git.