DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Openpolicyagent Advanced Training

Engineer fast, extensible and highly available OPA deployments and run policy as a governed, audited platform.

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	46 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/openpolicyagent/openpolicyagent-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 Openpolicyagent course path, you will be able to:

1

Master the Rego language

Write, test and debug Rego policies for real authorization and compliance rules.

2

Integrate OPA everywhere

Connect OPA to applications, gateways, service meshes, Kubernetes and pipelines.

3

Operate policy as platform

Run OPA with signed bundles, monitoring, high availability and governed change.

WHAT THE ADVANCED LEVEL ADDS

Performance, extensibility, scale and governance

Hands-on: Design a central authorization platform. Build a bundle pipeline with tests, signing and staged rollout, benchmark the policies and prove fail-closed behaviour during an outage.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Deliver signed policy bundles, integrate OPA with Envoy, gateways and Kubernetes, and monitor and secure OPA in production.
- 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

Openpolicyagent Advanced Training agenda

46 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: OPA concepts, CLI and Rego essentials

Included from Foundation

1. Authorization challenges: hard-coded rules, inconsistent checks and audit gaps that OPA addresses
2. OPA decision flow: services send JSON input, OPA evaluates policy plus data and returns a decision
3. Deployment models: sidecar, host daemon, Go library and Wasm, with latency trade-offs
4. Installation: opa binary, Homebrew, the openpolicyagent/opa container image and opa version
5. The opa CLI: run, eval, test, fmt, check, build, inspect and bench subcommands
6. Rego syntax in OPA 1.x: package, import, default, if, contains and else
7. Rule types: complete rules, partial set and object rules and functions
8. Working with JSON: arrays, objects, sets, references and walking nested input
9. Iteration and quantifiers: some ... in, every and comprehensions over collections
10. Interactive learning: the opa run REPL, Rego Playground and editor tooling
11. First decisions: role-based access control with users, roles and permissions held in data.json

DAY 2 — Essential: Rego patterns, testing and policy as a service

Included from Essential

12. RBAC and ABAC patterns: role bindings plus attribute checks on owner, department and time of day
13. JWT handling: io.jwt.decode, io.jwt.decode_verify with JWKS keys and claims-based decisions
14. Testing policies: test rules, fixture data, with overrides and opa test -v
15. Formatting and linting: opa fmt, opa check and Regal in editors and CI
16. OPA REST API: POST /v1/data queries, the policy API, health endpoint and configuration file basics
17. Application integration: calling OPA from Python, Java or Node.js services and caching decisions
18. Rich decisions: returning allow, reasons and obligations objects instead of plain booleans
19. Loading policy and data: files, directories, HTTP bundles and data refresh strategies
20. Version control workflow: policy repositories, code review and semantic versioning of policy packages
21. Infrastructure checks with Conftest: Terraform plans, Kubernetes manifests and Dockerfiles in CI
22. Debugging decisions: --explain notes, print statements and tracing

DAY 3 — Intermediate: Bundles, integrations, monitoring and security

Included from Intermediate

23. Bundle service: building bundles, manifest revisions, delta bundles, polling and long polling
24. Bundle signing: keys configuration, signatures.json and rejecting unsigned bundles
25. Decision logs: configuration, masking and drop rules and delivery to an HTTP collector
26. Status and monitoring: Prometheus metrics endpoint, health checks with bundle and plugin status
27. Envoy and Istio authorization: ext_authz over gRPC with opa-envoy-plugin, path and method checks
28. Kubernetes admission: kube-mgmt compared with Gatekeeper and replicating cluster data into OPA
29. API gateway integration: Kong and Envoy-based gateways delegating authorization to OPA
30. Data filtering basics: partial evaluation through the Compile API to build SQL WHERE clauses

31. External data: http.send with caching and timeouts, and pushing data through the Data API
32. CI/CD policy gates: pipeline approval rules, Terraform tag and cost policies
33. Securing OPA: TLS, token authentication and a system.authz policy for OPA's own API
34. Troubleshooting: conflicting complete rules, undefined versus false results and evaluation errors

DAYS 4-5 **Advanced: Performance, extensibility, scale and governance** **New at this level**

35. Performance engineering: opa bench, profiling, indexing-friendly rules and memory considerations
36. Large data sets: partitioning data per service, bundle size and load time tuning
37. Extending OPA: custom built-ins and plugins in Go and building a custom OPA distribution
38. Wasm targets: compiling to Wasm, SDKs for Node.js and Go, and capability limits
39. High availability: OPA close to services, persisted bundles for offline start and fail-closed defaults
40. Central bundle distribution: bundle servers on S3, Google Cloud Storage, Azure Blob or OCI registries
41. Policy governance: ownership, change approvals, staged rollout and audit trails from decision logs
42. Compliance as code: mapping CIS, NIST 800-53 and PCI DSS controls to Rego rules and reports
43. Multi-tenant and multi-environment design: namespacing, overrides and exception handling
44. Upgrades: moving from Rego v0 to v1 and pinning behaviour with capabilities files
45. Alternatives and complements: Cedar, Kyverno and CEL-based policies, and when OPA fits best
46. Capstone: a centrally managed authorization service for microservices with signed bundles, logs and SLOs

PRACTICE

Hands-on labs

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

FOUNDATION

Model RBAC in Rego

Load users, roles and permissions as data and write a Rego policy that answers who can perform which action on which resource.

ESSENTIAL

Run OPA as an authorization service

Run OPA as a server, have a small REST API call it for JWT-based ABAC decisions and cover the policy with unit tests.

INTERMEDIATE

Authorize traffic through Envoy

Serve signed bundles to OPA sidecars next to Envoy, authorize requests by path, method and JWT claims and export decision logs and metrics.

ADVANCED

Design a central authorization platform

Build a bundle pipeline with tests, signing and staged rollout, benchmark the policies and prove fail-closed behaviour during an outage.

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 Openpolicyagent 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 OPENPOLICYAGENT 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/openpolicyagent/

ENROL OR RESERVE A SEAT **Openpolicyagent Advanced Training**	WHATSAPP · INDIA **+91 99057 40781**
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