DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Icinga Advanced Training

Run large, highly available Icinga clusters, write custom plugins, automate with Director, tune performance and harden every layer.

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	51 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/icinga/icinga-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 Icinga course path, you will be able to:

1

Deploy the Icinga stack

Install and configure Icinga 2, Icinga DB, Icinga Web and Director for real infrastructure.

2

Monitor without alert noise

Model checks, dependencies, notifications and escalations that alert the right people only.

3

Scale and secure monitoring

Run distributed, highly available, automated and hardened Icinga clusters.

WHAT THE ADVANCED LEVEL ADDS

Clustering, plugins, Director automation, tuning and hardening

Hands-on: Capstone: HA monitoring for multiple sites. Deploy an HA master pair with satellites per site, sync hosts from a CMDB with Director, add a custom plugin and business process view, then tune and harden it.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Build scalable apply-rule configuration, automate with the API, run distributed zones with secure agents and cut alert noise with dependencies.
- 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

Icinga Advanced Training agenda

51 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: Monitoring concepts, Icinga stack and installation

Included from Foundation

1. Monitoring fundamentals: availability versus performance monitoring, checks, states and alerting, the Nagios heritage
2. The Icinga stack: Icinga 2 core, Icinga DB with Redis and a SQL database, Icinga Web, Icinga Director and modules
3. Single-node design: one master running the core, Icinga DB and Icinga Web for a small environment
4. Installing Icinga 2: packages.icinga.com repositories, the icinga2 package and icinga2 feature list and enable
5. Master setup: icinga2 node wizard, the API feature and the local certificate authority
6. Icinga DB: icingadb-redis, the icingadb daemon and MySQL or PostgreSQL schema import
7. Icinga Web: installation, setup wizard token, authentication backend and the Icinga DB Web module
8. Monitoring Plugins: installing the monitoring-plugins package and the PluginDir constant
9. Configuration layout: /etc/icinga2, icinga2.conf, constants.conf, zones.conf and the conf.d directory
10. First host and services: Host object with address, ping4, ssh and http services and check_command
11. Validate and reload: icinga2 daemon -C, systemctl reload icinga2 and reading icinga2.log
12. First look in Icinga Web: host and service detail views, check now and the problems list

DAY 2 — Essential: Objects, plugins, remote checks and basic alerting

Included from Essential

13. Object model: Host, Service, CheckCommand, User, Notification, Zone and Endpoint types and their key attributes
14. Host and service groups: grouping by role, location and owner with assign where expressions
15. Check states: OK, WARNING, CRITICAL and UNKNOWN, soft and hard states, max_check_attempts, check and retry intervals
16. Monitoring Plugins in practice: check_disk, check_load, check_procs, check_swap and the built-in ITL CheckCommand definitions
17. Remote Linux checks over SSH: the by_ssh command, key setup and when to prefer the Icinga agent
18. Icinga for Windows: PowerShell framework, Windows plugins for CPU, memory, disks and services
19. Network devices: SNMP checks for switches, routers and firewalls, interface status and bandwidth
20. Web and service checks: HTTP content, TLS certificate expiry, DNS, SMTP and database availability
21. Basic notifications: users, email notification commands, states and types filters
22. Icinga Web daily use: tactical overview, problems, history, search and quick acknowledgement
23. Icinga Director introduction: installing the module, defining hosts in the web UI and deploying configuration
24. Configuration hygiene: naming conventions, one object per file, comments and icinga2 object list for inspection

DAY 3 — Intermediate: Apply rules, API, zones, agents and noise reduction

Included from Intermediate

25. Welcome, goals and lab setup: outcomes, lab topology, prerequisites check, review of objects, checks and notifications
26. Icinga 2 internals: config stages, zones, endpoints and the API, standalone versus distributed monitoring
27. Configuration strategy: best-practice folder structure and how to organise configuration for many teams

28. Inheritance, apply rules and dynamic configuration: imports, conditional apply rules on custom vars, service discovery, lab
29. Icinga 2 API and automation: API basics and security, objects via API versus files, CI/CD-driven config, lab queries
30. Distributed monitoring with zones: endpoints, config sync, parent and child zones for branches or DMZ, failover, lab
31. Agents and secure registration: agent, satellite and master roles, certificates, CSR flow, trust model, scale patterns, lab
32. Recap and Q&A: key learnings, troubleshooting checklist, real-world scenarios and day two kickoff
33. Advanced notifications and noise reduction: escalation design, time periods, delays, routing, flapping, downtimes, lab
34. Dependencies and service health modelling: parent-child relations, preventing cascading alerts, DB to API to web, lab
35. Performance data and graphing basics: perfdata fundamentals, threshold strategy, enabling metrics, graphing options, lab
36. Icinga Web 2 intermediate usage: dashboards, custom views, roles, filters, advanced search, ops workflows, NOC lab
37. Integrations and event handling: event commands, remediation, ticketing, chat, email, webhooks, safe automation, lab
38. Backup, upgrade, troubleshooting and wrap-up: configs, certs and DB, upgrade validation, common issues, scaling roadmap

DAYS 4-5 **Advanced: Clustering, plugins, Director automation, tuning and hardening** **New at this level**

39. Check execution internals: core internals, check scheduling and execution flow, event handling and state processing
40. Advanced Icinga 2 configuration: deep object inheritance, custom variables, dynamic host and service creation at scale
41. Icinga 2 clustering: distributed versus HA setups, zone hierarchy design, master, satellite and agent communication
42. Clustering lab: implement advanced apply rules, configure a clustered environment, validate and troubleshoot errors
43. Advanced monitoring techniques: custom Bash or Python plugins, command arguments and macros, perfdata, flapping handling
44. Icinga Director automation: advanced usage, import sources and sync rules, automated object creation, Git-based workflows
45. Notifications and escalations: advanced rules, time periods and user groups, escalations, email, Slack and PagerDuty
46. Automation lab: create custom plugins, configure notification escalations and automate object creation with Director
47. Performance optimisation: Icinga 2 tuning, check interval and load, Redis and IDO versus Icinga DB, large environments
48. Data, metrics and visualisation: Icinga Web 2 advanced features, Graphite or InfluxDB graphs, business process modelling, SLA reports
49. Security and access control: API security and certificates, RBAC, secure agent communication, hardening installations
50. Troubleshooting and best practices: debugging checks and notifications, log analysis, recovery, upgrade and migration
51. Final hands-on and Q&A: end-to-end monitoring scenario, performance and security validation, best practices recap

PRACTICE

Hands-on labs

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

FOUNDATION

Install Icinga and monitor two hosts

Install Icinga 2, Icinga DB and Icinga Web on one VM, then define two Linux hosts with ping, SSH and HTTP checks and see their states in the web interface.

ESSENTIAL

Monitor a mixed small office

Add Linux, Windows, a network switch and a public website to Icinga with grouped services and email alerts, then acknowledge and resolve a simulated outage.

INTERMEDIATE

Distributed monitoring with secure agents

Build a master and satellite zone, register agents with CSR signing, drive services with apply rules and API calls, and add dependencies and an escalation path.

ADVANCED

Capstone: HA monitoring for multiple sites

Deploy an HA master pair with satellites per site, sync hosts from a CMDB with Director, add a custom plugin and business process view, then tune and harden it.

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 Icinga 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 ICINGA 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/icinga/

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