DevOpsSchool

Course curriculum · November 2026

DEVOPS · TRAINING PROGRAM

Devops Online Training

A practical, hands-on Devops Online Training curriculum: 497 topics. Learn live online in a small batch, as a private corporate batch, or self-paced with one year of LMS access.

LIVE ONLINE Max 8-10 hours	**CORPORATE** Private team batch, on demand	**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

INSIDE THIS CURRICULUM

Who should attend	Objectives, audience, prerequisites
Agenda	497 topics
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-certified-professional-dcp.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

COURSE FIT

Who this program is for

Use this page to decide whether Devops Online Training matches your role and experience.

1

Objectives

Understand the core concepts and usage model, apply practical workflows through examples and guided tasks, and prepare for implementation, certification or team adoption.

2

Who should attend

Developers, DevOps engineers, administrators, SREs, security engineers, platform teams, release teams, technical leads and corporate teams working with this topic.

3

Before you start

Basic computer literacy and awareness of software, operations, cloud, DevOps or security workflows is helpful. Deep programming experience is not needed unless the topic requires it.

AGENDA AT A GLANCE · 497 TOPICS

Core curriculum

497 topics · SDLC Models & Architecture with Agile, DevOps, SRE & DevSecOps, SOA & Micro se

AGENDA · 497 TOPICS

Devops Online Training agenda

Live online batches run for max 8-10 hours; corporate batches are planned with your team.

CORE CURRICULUM

497 topics

1. SDLC Models & Architecture with Agile, DevOps, SRE & DevSecOps, SOA & Micro services - Concept
2. Let’s Understand about Software Development Model
3. Overview of Waterfall Development Model
4. Challenges of Waterfall Development Model
5. Overview of Agile Development Model
6. Challenges of Agile Development Model
7. Requirement of New Software Development Model
8. Understanding an existing Pain and Waste in Current Software Development Model
9. What is DevOps?
10. Transition in Software development model
11. Waterfall -> Agile -> CI/CD -> DevOps -> DevSecOps
12. Understand DevOps values and principles
13. Culture and organizational considerations
14. Communication and collaboration practices
15. Improve your effectiveness and productivity
16. DevOps Automation practices and technology considerations
17. DevOps Adoption considerations in an enterprise environment
18. Challenges, risks and critical success factors
19. What is DevSecOps?
20. Let’s Understand DevSecOps Practices and Toolsets.
21. What is SRE?
22. Let’s Understand SRE Practices and Toolsets.
23. List of Tools to become Full Stack Developer/QA/SRE/DevOps/DevSecOps
24. Microservices Fundamentals
25. Microservices Patterns
26. Choreographing Services
27. Presentation components
28. Business Logic
29. Database access logic
30. Application Integration
31. Modelling Microservices
32. Integrating multiple Microservices
33. Keeping it simple
34. Avoiding Breaking Changes
35. Choosing the right protocols
36. Sync & Async

37. Dealing with legacy systems
38. Testing
39. What and When to test
40. Preparing for deployment
41. Monitoring Microservice Performance
42. Tools used for Microservices Demo using container
43. Platform - Operating Systems - Centos/Ubuntu & VirtualBox & Vagrant
44. Ubuntu
45. Installing CentOS7 and Ubuntu
46. Accessing Servers with SSH
47. Working at the Command Line
48. Reading Files
49. Using the vi Text Editor
50. Piping and Redirection
51. Archiving Files
52. Accessing Command Line Help
53. Understanding File Permissions
54. Accessing the Root Account
55. Using Screen and Script
56. Overview of Hypervisor
57. Introduction of VirtualBox
58. Install VirtualBox and Creating CentOS7 and Ubuntu Vms
59. Vagrant
60. Understanding Vagrant
61. Basic Vagrant Workflow
62. Advance Vagrant Workflow
63. Working with Vagrant VMs
64. The Vagrantfile
65. Installing Nginx
66. Provisioning
67. Networking
68. Sharing and Versioning Web Site Files
69. Vagrant Share
70. Vagrant Status
71. Sharing and Versioning Nginx Config Files
72. Configuring Synced Folders
73. Platform - Cloud - AWS
74. Introduction of AWS
75. Understanding AWS infrastructure
76. Understanding AWS Free Tier
77. IAM: Understanding IAM Concepts

78. IAM: A Walkthrough IAM
79. IAM: Demo & Lab
80. Computing:EC2: Understanding EC2 Concepts
81. Computing:EC2: A Walkthrough EC2
82. Computing:EC2: Demo & Lab
83. Storage:EBS: Understanding EBS Concepts
84. Storage:EBS: A Walkthrough EBS
85. Storage:EBS: Demo & Lab
86. Storage:S3: Understanding S3 Concepts
87. Storage:S3: A Walkthrough S3
88. Storage:S3: Demo & Lab
89. Storage:EFS: Understanding EFS Concepts
90. Storage:EFS: A Walkthrough EFS
91. Storage:EFS: Demo & Lab
92. Database:RDS: Understanding RDS MySql Concepts
93. Database:RDS: A Walkthrough RDS MySql
94. Database:RDS: Demo & Lab
95. ELB: Elastic Load Balancer Concepts
96. ELB: Elastic Load Balancer Implementation
97. ELB: Elastic Load Balancer: Demo & Lab
98. Networking:VPC: Understanding VPC Concepts
99. Networking:VPC: Understanding VPC components
100. Networking:VPC: Demo & Lab
101. Platform - Containers - Docker
102. What is Containerization?
103. Why Containerization?
104. How Docker is good fit for Containerization?
105. How Docker works?
106. Docker Architecture
107. Docker Installations & Configurations
108. Docker Components
109. Docker Engine
110. Docker Image
111. Docker Containers
112. Docker Registry
113. Docker Basic Workflow
114. Managing Docker Containers
115. Creating our First Image
116. Understading Docker Images
117. Creating Images using Dockerfile
118. Managing Docker Images

119. Using Docker Hub registry
120. Docker Networking
121. Docker Volumes
122. Deepdive into Docker Images
123. Deepdive into Dockerfile
124. Deepdive into Docker Containers
125. Deepdive into Docker Networks
126. Deepdive into Docker Volumes
127. Deepdive into Docker Volume
128. Deepdive into Docker CPU and RAM allocations
129. Deepdive into Docker Config
130. Docker Compose Overview
131. Install & Configure Compose
132. Understanding Docker Compose Workflow
133. Understanding Docker Compose Services
134. Writing Docker Compose Yaml file
135. Using Docker Compose Commands
136. Docker Compose with Java Stake
137. Docker Compose with Rails Stake
138. Docker Compose with PHP Stake
139. Docker Compose with Nodejs Stake
140. Planning and Designing - Jira & Confulence
141. Overview of Jira
142. Use cases of Jira
143. Architecture of Jira
144. Installation and Configuraration of Jira in Linux
145. Installation and Configuraration of Jira in Windows
146. Jira Terminologies
147. Understanding Types of Jira Projects
148. Working with Projects
149. Working with Jira Issues
150. Adding Project Components and Versions
151. Use Subtasks to Better Manage and Structure Your Issues
152. Link Issues to Other Resources
153. Working in an Agile project
154. Working with Issues Types by Adding/Editing/Deleting
155. Working with Custom Fields by Adding/Editing/Deleting
156. Working with Screens by Adding/Editing/Deleting
157. Searching and Filtering Issues
158. Working with Workflow basic
159. Introduction of Jira Plugins and Addons.

160. Jira Integration with Github
161. Exploring Confluence benefits and resources
162. Configuring Confluence
163. Navigating the dashboard, spaces, and pages
164. Creating users and groups
165. Creating pages from templates and blueprints
166. Importing, updating, and removing content
167. Giving content feedback
168. Watching pages, spaces, and blogs
169. Managing tasks and notifications
170. Backing up and restoring a site
171. Admin tasks
172. Add/Edit/Delete new users
173. Adding group and setting permissions
174. Managing user permissions
175. Managing addons or plugins
176. Customizing confluence site
177. Installing Confluence
178. Evaluation options for Confluence
179. Supported platforms
180. Installing Confluence on Windows
181. Activating Confluence trial license
182. Finalizing Confluence Installation
183. Backend Programming Language 2 - App Dev with Python/Flask with mysql DB
184. Planning - Discuss some of the Small Project Requirement which include
185. Login/Registertration with Some Students records CRUD operations.
186. Design a Method --> Classes -> Interface using Core Python
187. Fundamental of Core Python with Hello-world Program with Method --> Classes
188. Coding in Flask using HTMl - CSS - JS - MySql
189. Fundamental of Flask Tutorial of Hello-World APP
190. UT - 2 Sample unit Testing using Pythontest
191. Package a Python App
192. AT - 2 Sample unit Testing using Selenium
193. Technology Demonstration
194. Software Planning and Designing using JAVA
195. Core Python
196. Flask
197. mySql
198. pytest
199. Selenium
200. HTMl

201. CSS
202. Js.
203. Source Code Versioning - Git using Github
204. Introduction of Git
205. Installing Git
206. Configuring Git
207. Git Concepts and Architecture
208. How Git works?
209. The Git workflow
210. Working with Files in Git
211. Adding files
212. Editing files
213. Viewing changes with diff
214. Viewing only staged changes
215. Deleting files
216. Moving and renaming files
217. Making Changes to Files
218. Undoing Changes
219. Reset
220. Revert
221. Amending commits
222. Ignoring Files
223. Branching and Merging using Git
224. Working with Conflict Resolution
225. Comparing commits, branches and workspace
226. Working with Remote Git repo using Github
227. Push - Pull - Fetch using Github
228. Tagging with Git
229. Code Analysis & Securing Code (SAST) - SonarQube & OWASP SonarQube
230. What is SonarQube?
231. Benefits of SonarQube?
232. Alternative of SonarQube
233. Understanding Various License of SonarQube
234. Architecture of SonarQube
235. How SonarQube works?
236. Components of SonarQube
237. SonarQube runtime requirements
238. Installing and configuring SonarQube in Linux
239. Basic Workflow in SonarQube using Command line
240. Working with Issues in SonarQube
241. Working with Rules in SonarQube

242. Working with Quality Profiles in SonarQube
243. Working with Quality Gates in SonarQube
244. Deep Dive into SonarQube Dashboard
245. Understanding Seven Axis of SonarQube Quality
246. Workflow in SonarQube with Maven Project
247. Workflow in SonarQube with Gradle Project
248. OWASP Top 10 with SonarQube
249. Build Management - Maven and Gradle
250. Maven
251. Introduction to Apache Maven
252. Advantage of Apache Maven over other build tools
253. Understanding the Maven Lifecycle and Phase
254. Understanding the Maven Goals
255. Understanding the Maven Plugins
256. Understanding the Maven Repository
257. Understanding and Maven Release and Version
258. Prerequisite and Installing Apache Maven
259. Understanding and using Maven Archetypes
260. Understanding Pom.xml and Setting.xml
261. Playing with multiples Maven Goals
262. Introducing Maven Dependencies
263. Introducing Maven Properties
264. Introducing Maven Modules
265. Introducing Maven Profile
266. Introducing Maven Plugins
267. How can Maven benefit my development process?
268. How do I setup Maven?
269. How do I make my first Maven project?
270. How do I compile my application sources?
271. How do I compile my test sources and run my unit tests?
272. How do I create a JAR and install it in my local repository?
273. How do I use plugins?
274. How do I add resources to my JAR?
275. How do I filter resource files?
276. How do I use external dependencies?
277. How do I deploy my jar in my remote repository?
278. How do I create documentation?
279. How do I build other types of projects?
280. How do I build more than one project at once?
281. Gradle
282. What is Gradle?

283. Why Gradle?
284. Installing and Configuring Gradle
285. Build Java Project with Gradle
286. Build C++ Project with Gradle
287. Build Python Project with Gradle
288. Dependency Management in Gradle
289. Project Structure in Gradle
290. Gradle Tasks
291. Gradle Profile and Cloud
292. Gradle Properties
293. Gradle Plugins
294. Package Management - Packer & Artifactory
295. Artifactory
296. Artifactory Overview
297. Understanding a role of Artifactory in DevOps
298. System Requirements
299. Installing Artifactory in Linux
300. Using Artifactory
301. Getting Started
302. General Information
303. Artifactory Terminology
304. Artifactory Repository Types
305. Artifactory Authentication
306. Deploying Artifacts using Maven
307. Download Artifacts using Maven
308. Browsing Artifactory
309. Viewing Packages
310. Searching for Artifacts
311. Manipulating Artifacts
312. Packer
313. Junit
314. What is Unit Testing?
315. Tools for Unit Testing
316. What is Junit?
317. How to configure Junit?
318. Writing Basic Junit Test cases
319. Running Basic Junit Test cases
320. Junit Test Results
321. Introduction to Selenium
322. Components of Selenium
323. Selenium IDE

324. Selenium Web driver
325. Selenium Grid
326. Installing and Configuring Selenium
327. Working with Selenium IDE
328. Working With Selenium Web driver with Java Test Case Setup and Working with Selenium Grid
329. Setup and Working with Selenium Grid
330. Jacoco
331. Overview of Code coverage process
332. Introduction of Jacoco
333. How Jacoco works!
334. How to install Jaoco?
335. Setup testing Environment with Jacoco
336. Create test data files using Jacoco and Maven
337. Create a Report using Jacoco
338. Demo - Complete workflow of Jacoco with Maven and Java Project
339. Configuration & Deployment Management - Ansible
340. Overflow of Configuration Management
341. Introduction of Ansible
342. Ansible Architecture
343. Let’s get startted with Ansible
344. Ansible Authentication & Authorization
345. Let’s start with Ansible Adhoc commands
346. Let’s write Ansible Inventory
347. Let’s write Ansible Playbook
348. Working with Popular Modules in Ansible
349. Deep Dive into Ansible Playbooks
350. Working with Ansible Variables
351. Working with Ansible Template
352. Working with Ansible Handlers
353. Roles in Ansible
354. Ansible Galaxy
355. Container Orchestration - Kubernetes & Helm Introduction
356. Understanding the Need of Kubernetes
357. Understanding Kubernetes Architecture
358. Understanding Kubernetes Concepts
359. Kubernetes and Microservices
360. Understanding Kubernetes Masters and its Component
361. kube-apiserver
362. etcd
363. kube-scheduler
364. kube-controller-manager

365. Understanding Kubernetes Nodes and its Component
366. kubelet
367. kube-proxy
368. Container Runtime
369. Understanding Kubernetes Addons
370. DNS
371. Web UI (Dashboard)
372. Container Resource Monitoring
373. Cluster-level Logging
374. Understand Kubernetes Terminology
375. Kubernetes Pod Overview
376. Kubernetes Replication Controller Overview
377. Kubernetes Deployment Overview
378. Kubernetes Service Overview
379. Understanding Kubernetes running environment options
380. Working with first Pods
381. Working with first Replication Controller
382. Working with first Deployment
383. Working with first Services
384. Introducing Helm
385. Basic working with Helm
386. Infrastructure Coding - Terraform
387. Deploying Your First Terraform Configuration
388. Introduction
389. What's the Scenario?
390. Terraform Components
391. Updating Your Configuration with More Resources
392. Terraform State and Update
393. Data Type and Security Groups
394. Configuring Resources After Creation
395. Terraform Provisioners
396. Terraform Syntax
397. Adding a New Provider to Your Configuration
398. Terraform Providers
399. Terraform Functions
400. Intro and Variable
401. Resource Creation
402. Deployment and Terraform Console
403. Updated Deployment and Terraform Commands
404. Continuous Integration - Jenkins
405. Lets understand Continuous Integration

406. What is Continuous Integration
407. Benefits of Continuous Integration
408. What is Continuous Delivery
409. What is Continuous Deployment
410. Continuous Integration Tools
411. Prometheus
412. Introduction to Prometheus
413. Prometheus installation
414. Grafana with Prometheus Installation
415. Installation
416. Installing on Ubuntu / Debian
417. Installing on Centos / Redhat
418. Installing on Windows
419. Installing on Mac
420. Installing using Docker
421. Building from source
422. Upgrading
423. Administration Configuration Authentication Permissions Grafana CLI Internal metrics Provisioning Troubleshooting Log Monitoring Tool 1 - Splunk
424. What Is Splunk?
425. Overview
426. Machine Data
427. Splunk Architecture
428. Careers in Splunk
429. Introduction and Overview of NewRelic
430. What is Application Performance Management?
431. Understanding a need of APM
432. Understanding transaction traces
433. What is Application Performance?
434. APM Benefits
435. APM Selection Criteria
436. Why NewRelic is best for APM?
437. What is NewRelic APM?
438. How does NewRelic APM work?
439. NewRelic Architecture
440. NewRelic Terminology
441. Installing and Configuring NewRelic APM Agents for Application
442. Register a Newrelic Trial account
443. Installing a JAVA Agent to Monitor your Java Application
444. Installing a PHP Agent to Monitor your PHP Application
445. Installing New Relic Agent for .NET Framework Application

446. Installing a Docker based Agent to Monitor your Docker based Application
447. Understanding of NewRelic Configration settings of newrelic.yml
448. Understanding of NewRelic Agent Configration settings
449. Working with NewRelic Dashboard
450. Understanding a transactions
451. Understanding Apdex and Calculating and Setting Apdex Threshold
452. Understanding Circuit break
453. Understanding Throughput
454. Newrelic default graphs
455. Understanding and Configuring Service Maps
456. Understanding and Configuring JVM
457. Understanding Error Analytics
458. Understanding Violations
459. Understanding and Configuring Deployments
460. Understanding and Configuring Thread Profiler
461. Depp Dive into Transaction Traces
462. Profiling with New Relic
463. Creating and managing Alerts
464. Working with Incidents
465. Sending NewRelic Alerts to Slack
466. Assessing the quality of application deployments
467. Monitoring using Newrelic
468. View your applications index
469. APM Overview page
470. New Relic APM data in Infrastructure
471. Transactions page
472. Databases and slow queries
473. Viewing slow query details
474. External services page
475. Agent-specific UI
476. Viewing the transaction map
477. Deep Dive into Newrelic Advance
478. Newrelic transaction alerts
479. Configure abnd Troubleshoot and Cross Application Traces
480. NewRelic Service Level Agreements
481. Troubleshooting NewRelic
482. Understanding and Configuring NewRelic X-Ray Sessions
483. Deep Dive into NewRelic Agent Configuration
484. Adding Custom Data with the APM Agent
485. Extending Newrelic using Plugins
486. Finding and Fixing Application Performance Issues with New Relic APM

487. Setting up database montioring using Newrelic APM
488. Setting up and Configuring Newrelic Alerts
489. Working with NewRelic Performance Reports
490. Availability report
491. Background jobs analysis report
492. Capacity analysis report
493. Database analysis report
494. Host usage report
495. Scalability analysis report
496. Web transactions analysis report
497. Weekly performance report

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	This program plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate	Planned with your team	A private batch for your team, on demand, with examples mapped to your platforms.	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on tasks and assignments. 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 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.

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