DevOpsSchool

Course curriculum · November 2026

OPENSHIFT · TRAINING PROGRAM

Red Hat OpenShift Administration Training

A practical, hands-on Red Hat OpenShift Administration Training curriculum: 168 topics over 8 days. 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	168 topics over 8 days
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/openshift/redhat-openshift-administration-training.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 Red Hat OpenShift Administration 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 · 168 TOPICS OVER 8 DAYS

Day 1
27 topics · Course Overview

Day 2
20 topics · Storage Concepts in OpenShift

Day 3
27 topics · OpenShift Pod Scaling

Day 4
22 topics · Managing OpenShift Networking

Day 5
19 topics · Securing the OpenShift Components

Day 6
20 topics · Managing Container Images

Day 7
29 topics · Users in OpenShift Cluster

Day 8
4 topics · Lab Overview

AGENDA · 168 TOPICS OVER 8 DAYS

Red Hat OpenShift Administration Training agenda

Days are for corporate (day-wise) delivery; live online batches cover the agenda in max 8-10 hours.

DAY 1

27 topics

1. Course Overview
2. Containers, Kubernetes, and OpenShift Basics
3. Version Check
4. Demo: Demo Environment
5. Introduction to Containers
6. Demo: Containers
7. Introduction to Kubernetes
8. Demo: Kubernetes
9. Introduction to OpenShift
10. Summary
11. Deploying OpenShift
12. OpenShift Deployment Considerations and Steps
13. OpenShift System, Loadbalancer, DNS, and Firewall Requirements
14. Demo: Deploying OpenShift on Bare Metal or Virtual Machines
15. The OpenShift Assisted Installer
16. Demo: Deploying OpenShift Using the Assisted Installer
17. Deploying OpenShift on Installer Provisioned Infrastructure
18. Demo: Deploying OpenShift on Installer Provisioned Infrastructure
19. Deploying Managed OpenShift Clusters
20. Demo: Deploying Azure RedHat OpenShift
21. Accessing and Working with OpenShift
22. Accessing OpenShift Clusters and Retrieving Credentials
23. Demo: Accessing OpenShift Clusters and Retrieving Credentials
24. The OpenShift WebConsole
25. Demo: The OpenShift WebConsole
26. Deploying Applications on OpenShift
27. Demo: Deploying Applications and Storage on OpenShift

DAY 2

20 topics

28. Storage Concepts in OpenShift
29. Course Overview and Demo Environment
30. Ephemeral Storage
31. Demo: Ephemeral Storage
32. Persistent Storage
33. The Container Storage Interface (CSI)
34. Summary

35. Deploying Persistent Storage in OpenShift
36. Deploying Persistent Local Volumes
37. Demo: Deploying Persistent Local Volumes
38. Deploying Persistent HostPath Volumes
39. Demo: Deploying Persistent HostPath Volumes
40. Deploying Persistent AzureFiles Volumes
41. Demo: Deploying Persistent AzureFiles Volumes
42. Deploying Persistent NFS Volumes
43. Demo: Deploying Persistent NFS Volumes
44. Deploying Persistent iSCSI Volumes
45. Demo: Deploying Persistent iSCSI Volumes
46. Managing Persistent CSI Storage
47. Demo: Managing Persistent CSI Storage

DAY 3 27 topics

48. OpenShift Pod Scaling
49. Course Overview and Demo Environment
50. Basics of Pod Scaling
51. Horizontal Pod Autoscaler
52. Demo: Horizontal Pod Autoscaler
53. Vertical Pod Autoscaler
54. Demo: Vertical Pod Autoscaler
55. Summary
56. Controlling Pod Placement onto Nodes (Scheduling)
57. Scheduling Profiles
58. Demo: Scheduling Profiles
59. Scheduling Pods on Overcommitted Nodes
60. Node Selectors
61. Node Affinity
62. Demo: Node Selectors and Node Affinity
63. Pod Affinity and Anti-affinity
64. Demo: Pod Affinity and Anti-affinity
65. The Descheduler
66. Demo: The Descheduler
67. OpenShift Machine Management
68. Machine Sets
69. Demo: Machine Sets
70. Infrastructure Machine Sets
71. Demo: Infrastructure Machine Sets
72. Machine Health Checks
73. Demo: Machine Health Checks

74. Manually Adding Nodes to an OpenShift Cluster

DAY 4

22 topics

75. Managing OpenShift Networking
76. The Challenging Landscape
77. Challenges to Container Networking
78. Introducing OpenShift
79. Demo: Getting Started with OpenShift
80. Getting Started with OpenShift Networking
81. Exposing Cluster Applications
82. Demo: Creating Pods Routes and Services
83. Service Details
84. Policy Control
85. Demo: Creating a Deployment
86. Enhancing OpenShift Networking
87. The OpenShift Operators
88. Pod Networking
89. Forming the Topology
90. The OpenSwitch Interfaces
91. Demo Creating Services
92. Configuring the SDN
93. Service Discovery and Dns
94. Ingress Operator
95. Demo: Configuring Service Policy
96. Service Types

DAY 5

19 topics

97. Securing the OpenShift Components
98. Container Security Challenges
99. Risky Containers
100. Highlighting OpenShift Security
101. Demo: Container Security Flaws
102. Getting Started with OpenShift
103. Main Security Options
104. Security Context Constraints
105. Demo: Security Options
106. Hardening OpenShift Identity and Access
107. Improve Security with Automation
108. Ensuring Consistency
109. Additional Security Mechanism

110. Demo: Secret Management
111. OpenShift Authentication
112. Adding an Identity Provider
113. OpenShift Authorization
114. Main Authorization Concepts
115. Demo: Routes and Services

DAY 6

20 topics

116. Managing Container Images
117. Course Overview and Demo Environment
118. Container Images
119. Demo: Defining, Building, and Managing Container Images
120. Summary
121. Management and Deployment of Containerized Applications
122. Projects in OpenShift
123. Demo: Creating Projects and Defining Quota
124. Deploying Applications
125. Demo: Deploying Applications
126. Deployment Strategies
127. Demo: Deployment Strategies
128. Monitoring Application Health
129. Monitoring Projects and Applications
130. Idling Applications
131. OpenShift Operators
132. Operators
133. Demo: Adding Operators and Instances
134. Developing Operators
135. Summary in

DAY 7

29 topics

136. Users in OpenShift Cluster
137. Module Overview
138. Users in OpenShift
139. Users of Red Hat CRC
140. Demo: Accessing OpenShift Cluster
141. Identity Providers
142. Configuring HTPasswd Identity Provider
143. Demo: Configuring HTPasswd Identity
144. Demo: Deleting a User
145. Summary

146. Manage Users and Groups in Our Cluster
147. Demo: Updating User Password
148. Manage User Permissions
149. Demo: Applying User Permissions
150. Managing User Groups
151. Demo: Creating User Groups
152. Demo: Deleting User Group Permissions
153. Manage Access Control in OpenShift
154. Role-based Access Control
155. Roles in OpenShift Cluster
156. Demo: Assigning Edit Privileges
157. Demo: Creating Local Roles
158. Demo: Self-provisioners
159. Customized Roles
160. Secrets in OpenShift
161. Demo: Creating Secrets in OpenShift
162. Service Accounts in OpenShift
163. Security Context Constraints
164. Demo: Modifying Security Context Constraints

DAY 8 4 topics

165. Lab Overview
166. Troubleshooting OpenShift BuildConfig
167. Accessing a Running Pod
168. Demo: Troubleshooting and Fixing an Application

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.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All courses: www.devopsschool.com/courses/

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WHATSAPP · INDIA
+91 99057 40781

WHATSAPP · USA
+1 (469) 756-6329

EMAIL
contact@DevOpsSchool.com

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