

# Cloud-native API Administration with Red Hat 3scale API Management

**Course Duration: 32 Hours**

**Course code DO240**

## 1. Course Overview

This hands-on, lab-based course introduces Site Reliability Engineers and administrators to the essentials of managing cloud-native APIs using Red Hat 3scale API Management. Participants will learn how to install and configure 3scale on OpenShift, secure and monetize APIs, and create developer portals for documentation and onboarding. The course also covers API traffic monitoring, gateway customization, and implementation of API security using tokens, key-pairs, and OAuth/OIDC via Red Hat SSO. Based on Red Hat 3scale API Management version 2.11, this immersive training delivers practical skills for API administration in modern, cloud-native environments.

## 2. What you'll learn?

This course aims to provide learners with the skills to effectively deploy, manage, and secure APIs using Red Hat 3scale API Management in a cloud-native environment. Participants will explore the architecture, configuration, and administration of 3scale to deliver scalable and secure API solutions. The program emphasizes hands-on experience with traffic management, security policies, analytics, and developer portals, ensuring learners are ready to address real-world API management challenges in modern, container-based ecosystems.

### 3. Target Audience

- API developers and architects
- System administrators managing APIs
- DevOps engineers and site reliability engineers
- Cloud-native application developers
- IT professionals involved in microservices design and integration
- Anyone responsible for securing, deploying, and managing APIs

### 4. Pre-Requisites

Before starting this course, learners should have a solid understanding of basic API concepts and container technologies, as well as familiarity with Red Hat OpenShift fundamentals. Prior experience with web services, RESTful APIs, and cloud environments will make it easier to follow the advanced configuration and integration topics covered in the training.

- Basic knowledge of APIs and API design principles
- Familiarity with Red Hat OpenShift fundamentals
- Experience with containers and Kubernetes (recommended)
- Understanding of RESTful web services

## 5. Course content

### Module 1: Introduction to Red Hat 3scale API Management

- Overview of API management concepts and the architecture of Red Hat 3scale API Management.

### Module 2: Managing APIs via the Admin Portal

- Use the Red Hat 3scale Admin Portal to manage cloud-native APIs.

### Module 3: Configuring and Customizing API Gateways

- Apply standard policies to configure and customize the API Gateway to meet business needs.

### Module 4: Securing API Access

- Implement secure access using mechanisms such as tokens, API key-pairs, and OAuth/OIDC using Red Hat Single Sign-On (SSO).

### Module 5: Developer Portal Setup

- Configure and manage developer portals for API documentation and onboarding external developers.

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