

Rails Administration

Course Summary

Description

Ruby on Rails Administration training course covers the ins-and-outs of managing Ruby on Rails applications in a production environment.

Students will learn about the pros and cons of various server configurations and how to build them out, deploying new versions of Rails applications at the push of a button, monitoring, performance tuning, security-proofing, and scaling your Rails application to meet real-world demands.

Objectives

By the end of this course, students will be able to:

- Explain the principles of Ruby on Rails (RoR) web application framework to your colleagues
- Install, setup, and deploy RoR-based applications on Unix-type environments
- Understand the pros and cons of various RoR deployment configurations
- Manage application updates with a push of a button
- Monitor applications in real-time
- Troubleshoot common application issues
- Secure your RoR environments
- Understand how to size your RoR deployments based on expected usage scenarios
- Performance-tune and scale your RoR applications

Topics

- Ruby on Rails Overview
- Ruby on Rails Configurations
- Ruby on Rails Deployments
- Security
- Performance and Scalability
- Monitoring

Audience

This course is for web/application server administrators who need to be able to install, configure, run, secure, and tune Ruby on Rails application deployments. System architects and RoR developers can also benefit from this training.

Prerequisites

To get the most benefit from this course, you should be familiar with the basic principles of server administration.

Additionally, prior exposure to any of these concepts can be helpful:

- Unix/Linux/BSD, Windows, or Mac Administration
- HTTP protocol (i.e., the stateless nature of HTTP, the need for sessions, HTTP methods, SSL, etc.)
- SQL syntax including RDBMS administration (e.g. basic MySQL Administration)
- The Ruby language or any other interpreted language (e.g. Perl or Python)

Duration

Two days

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Course Outline

- I. Ruby on Rails Overview**
 - A. Overview of Ruby
 - B. Overview of Web Development
 - C. Overview of Ruby on Rails
- II. Ruby on Rails Configurations**
 - A. Apache + Mongrel
 - B. Nginx + Mongrel
 - C. JRuby (Tomcat)
 - D. Apache/Lighttpd + FastCGI
- III. Ruby on Rails Deployments**
 - A. Source Code Management
 - B. Capistrano
 - C. Gems
 - D. Migrations
 - E. Staging environment
- IV. Security**
 - A. SSL (including requiring SSL)
 - B. Preventing cross-site-scripting
 - C. Preventing SQL injections
 - D. Blocking Clients by Source IP/Hostname
- V. Performance and Scalability**
 - A. caching MemCache
 - B. load balancing
- VI. Monitoring**
 - A. monit
 - B. god
 - C. Error Notifications