

Pivotal Platform Acceleration Lab for Developers (Java)

PROGRAM DETAILS

DURATION

4 days

DELIVERY MODALITY

- Classroom
- Instructor-led training

PREREQUISITES

- Experience building and deploying modern software; i.e. TDD, CI/CD, and Refactoring
- Familiarity with design patterns, domain driven design, component-based architecture, and evolutionary architecture
- Experience developing apps using: Java 6 and above, Java Enterprise Edition, Java/ Spring

TARGET AUDIENCE

- Developers
- Lead Developers

MORE INFORMATION

Contact your Education Account Manager or [contact us](#) to learn more about the program and register.

Experience best practices building cloud native applications on Pivotal Cloud Foundry in a hands-on setting.

Platform Acceleration Lab (PAL) teaches developers and architects how to build and architect cloud-native software. Topics include: Pivotal Cloud Foundry, greenfield cloud-native development, and end-state reference architectures. The program is focused on enabling customers and partners through “doing it” rather than “talking about it”.

PLATFORM ACCELERATION LAB (PAL) APPROACH

This 4-day course enables participants to:

- Understand what Cloud Foundry is, and how it runs apps
- Learn about key app-centric Cloud Foundry constructs: app, manifest, buildpack, service instance, binding, domain, route, environment and variables
- Experience and overcome common impediments to running an app on Cloud Foundry
- Learn how to identify, codify, and make use of reusable patterns for building applications
- Understand distributed system development / architectures
- Learn how to evolve monolithic apps (i.e. understand when and how to break out microservices from the monolith)

CLOUD FOUNDRY, SPRING BOOT, CI

Best Practices / Architecture

- 12-Factor applications
- Evolutionary Architecture
- Test First Development (TDD)

Pivotal Cloud Foundry Concepts

- Applications
- Buildpacks
- Manifests
- Organizations and Spaces
- Users and Roles
- Domains and Routes
- Services
- Environment variables

Continuous Delivery / Integration

- Build Pipelines

Microservices

- Resilience
- Scaling
- Deployment
- Replaceability
- Organization Alignment
- Service Versioning
- Service Reuse

SPRING CLOUD SERVICES

- Service Discovery
- Service Configuration
- Cascading Failures
- Service Security
- Service Monitoring

THE CLOUD NATIVE DEVELOPER

Spring Boot developer

- Pair rotation guide
- Build a Spring Boot app
- Deploy a Spring Boot app to Cloud Foundry
- Deployment Pipelines for multiple environments
- Spring MVC with REST endpoints
- Cloud Foundry Services and Database migrations
- Spring JDBC template
- Spring Boot Actuator
- HTTP Basic authentication and SSL with Spring Security

Architecture

- The Application Continuum

Spring Cloud Developer

- Deploying distributed systems
- Service discovery and client-side load balancing
- Circuit breakers
- Securing a distributed system
- Config server

CONTACT US

Engage your local Education Services Account Manager for local pricing information and scheduling classes. Visit us online at education.EMC.com or call +1 888 362 8764 (US).