DELL Technologies

Platform Acceleration Lab

Become Cloud-Native through this immersive, best practices bootcamp.

MAKE DEVELOPING AND OPERATING SOFTWARE A STRATEGIC ADVANTAGE

Be empowered to build better software with Pivotal's Platform Acceleration Lab (PAL) through this 3-week immersive, best practices bootcamp. Learn how Pivotal's Platform Acceleration Lab can help you develop Cloud-Native applications and modernize existing applications to drive digital transformation.

This immersive, best practices bootcamp provides:

- Understanding of Pivotal Cloud Foundry (PCF) and what it takes to move or modernize existing apps to run on Pivotal Cloud Foundry

- Fundamentals of Pivotal Cloud Foundry, Spring, Spring Boot and Spring Cloud Services

- Insight to microservices, evolutionary application architecture and distributed systems

- Pivotal core practices including test driven development, continuous integration and delivery, pairing and retrospectives

CLASS DETAILS

Delivery Method

Instructor-led bootcamp with 90% hands-on lab access.

Location

Dell Center of Excellence (CoE), Bangalore, India.

Duration

Three weeks, Monday - Thursday.

Class Capacity

16 students (maximum).

ADOPT THE PLATFORM ACCELERATION LAB APPROACH

PAL will enable 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 variables

- Learn how to avoid analysis paralysis

- Experience common impediments to running an app on Cloud Foundry and overcome them

- Learn how to identify, codify, and make use of reusable patterns for building Cloud Native applications (i.e. understand distributed system development/architectures)

- Learn how to evolve monolithic apps to be Cloud Native (i.e. understand when and how to break out microservices from the monolith)

Impact hundreds of developers with high touch, hands-on, performance-based immersive learning delivered by knowledgeable practitioners.

OVERVIEW OF TOPICS COVERED

Week 1:
Cloud-Native Developer

CLOUD FOUNDRY, SPRING BOOT, CONCOURSE

Best Practices / Architecture

- 12-Factor applications
- Domain Driven Design
- 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

- Concourse Build Pipeline

Microservices

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

Spring Cloud Services

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

Weeks 2-3: Cloud-Native "Coding/ Application" Architect

APPLICATION PORTFOLIO ANALYSIS

- Portfolio Analysis
- Application Snap Analysis

Re-Platforming

- Packaging, Build & Deployment
- Configuration
- Bootification
- Data Integration and Data Access Techniques
- Local & Distributed Transactions
- File System Access
- Logging
- Handling Batch and ETL Jobs
- Worker Process and Threading
- External Integrations
- Instance-Specific State
- Mavenization / Gradling
- Security

Modernization

- Struts to Spring
- Strangling The Monolith
- Microservices
- Data Refactoring Patterns
- Dual Data Storage / Single DB versus multiple DB

FEATURES AND BENEFITS OF PLATFORM ACCELERATION LAB (PAL)

Impact hundreds of developers with high touch, hands-on, performance-based immersive learning delivered by practitioners.

Accelerate your transition to teams of Cloud-Native developers and architects
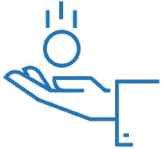
Increase developer productivity and reduce software development costs

Reduce software maintenance costs through higher-quality software

Re-platform and modernize existing applications and reduce software operational costs

REGISTER TODAY FOR PLATFORM ACCELERATION LAB (PAL)

Learn more at http://education.emc.com/content/pal.

Contact your Education Account Manager or contact us to learn more about the program and register.

CONTACT US

Engage your local Education Services Account Manager for local pricing information and scheduling classes.

Online: http://education.EMC.com/Contact
Phone: +1 888 362 8764 (US)

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