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)

**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: ASP.NET Web Forms and MVC. Windows services and console apps .NET Core

**TARGET AUDIENCE**
- Developers
- Lead Developers

**MORE INFORMATION**
Contact your Education Account Manager or contact us to learn more about the program and register.
CLOUD FOUNDRY, .NET CORE, CI/CD

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

STEELTOE
• Service Discovery
• Service Configuration
• Cascading Failures
• Service Security
• Service Monitoring

THE CLOUD NATIVE DEVELOPER

.NET Core Developer
• ASP.NET Core Web API Application
• Externalized Configuration and Deploying to Cloud Foundry
• Pipelines for multiple environments
• ASP.NET Core Web API
• Cloud Foundry Services and Database migrations
• Interacting with the Database
• Health monitoring

Architecture
• The Application Continuum

.NET Cloud Developer
• Deploying distributed systems
• Service discovery
• 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).