

VMware Pivotal Labs: Master Class for Developers (Java)

Course Overview

This 4-day course teaches developers and architects how to build and architect software and covers the following topics: Tanzu Application Service, greenfield development, and end state reference architectures.

Course Objectives

By the end of the course, you should be able to meet the following objectives:

- Understand what Tanzu Application Service is, and how it runs apps
- Learn about key app-centric Tanzu Application Service constructs: app, manifest, buildpack, service instance, binding, domain, route, environment variables
- Experience common impediments to running an app on Tanzu Application Service, and overcome them
- 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)

Target Audience

Developers and Lead Developers

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.

Course Delivery Options

- Classroom
- Live Online
- [Onsite](#)

Course Modules

- 1 **Course Introduction**
 - Introductions and course logistics
 - Course objectives
- 2 **Best Practices / Architecture**
 - 12-Factor applications
 - Evolutionary Architecture
- 3 **Tanzu Application Service**
 - Applications
 - Buildpacks
 - Manifests
 - Organizations and Spaces
 - Domains and Routes
 - Services
 - Environment variables
 - Scaling
- 4 **Continuous Delivery / Integration**
 - Build Pipelines
- 5 **Spring Development**
 - Monitoring
 - Schema management
 - Database Access
 - REST APIs
- 6 **Microservices**
 - Resilience
 - Deployment
 - Service Discovery
 - Service Configuration
 - Service Security

Contact

If you have questions or need help registering for this course, click [here](#).



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