Pivotal - Pivotal Cloud Foundry Developer v1.7

Code:	CF-DEV
Length:	3 days
URL:	[View Online](#)

This course provides students with the concepts and experience needed to work with and deploy applications on Pivotal Cloud Foundry. Students will gain experience in pushing apps to Cloud Foundry, accessing logs, and scaling. Students will explore topics directly related to the design and running of cloud native applications, including microservice architectures, blue-green deployments, and continuous delivery.

Skills Gained

At the end of the training, you should have an understanding of the following:

- Understand the differences between traditional IT provisioning, Infrastructure as a Service and Platform as a Service

- Explain organizations, spaces, routes, services (managed, userdefined), manifests, buildpacks, applications and droplets

- Identify Pivotal Cloud Foundry components: Router, Cloud Controller, Health Manager, Loggregator and Cells

- Deploy pre-existing applications to Pivotal Cloud Foundry, obtain logs, debug deployment issues, scale, start, stop, bind to services

- Use the command-line interface and Apps Manager to work with Pivotal Cloud Foundry

- Understand the impact of the cloud environment on application architecture

- Perform zero-downtime deployments

- Understand the role of services in Pivotal Cloud Foundry, gain experience using one or more examples

- Understand the purpose of buildpacks, gain experience specifying buildpacks and making configuration changes

- Understand and gain experience with 3rd party log management, Application Performance Monitoring, and Continuous Delivery tools that integrate with Pivotal Cloud Foundry

Who Can Benefit

Application developers seeking introductory understanding of Cloud Foundry and experience using it to deploy, manage, and scale applications.

Prerequisites

- Understanding of application development and deployment

- IMPORTANT: eLearning students must have a Pivotal Web Services account (recommended) or access to a Pivotal Cloud Foundry instance in order to complete labs.

Course Details

Course Modules

1. AN INTRODUCTION TO PIVOTAL CLOUD FOUNDRY

- Evolution of Cloud Architectures
- Industry Trends
- Cloud Foundry
- Pivotal Cloud Foundry

2. LOGGING, SCALE AND HA

- Cloud Native Apps
- Elastic Runtime Architecture
- High Availability

3. SERVICES

- Cloud Native Apps
- Managed Services
- User Provided Service Instances

4. MANIFESTS

- Using Manifests

5. APPLICATION SECURITY GROUPS

- Managing Application Security Groups

6. LOG DRAINING

- Cloud Native Apps
- Loggregator Review

7. BLUE-GREEN DEPLOYMENTS

- Blue-Green Routing
- Implications App Design

8. MICROSERVICES

- The Monolith
- Microservices
- Microservices and Pivotal Cloud Foundry

9. APPLICATION AUTOSCALER

• Managing the Autoscaler

10. APPLICATION PERFORMANCE MONITOR

• Application Monitoring with New Relic

11. METRICS

• Using Pivotal Cloud Foundry Metrics

12. BUILDPACKS

• Buildpack API

13. SERVICE BROKERS

• Service Broker API

14. CONTINUOUS DELIVERY

• Continuous Delivery Defined
• How Pivotal Cloud Foundry Enables Continuous Delivery

15. ROUTE SERVICE

• Purpose
• Request Flow

Schedule (as of March 6 2017)

Date	Location	
Apr 10, 2017 – Apr 12, 2017	ILO	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP Phoenix	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP Sacramento	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP San Francisco	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP San Jose	**Enroll**
Jun 6, 2017 – Jun 8, 2017	Herndon	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP Edison	**Enroll**
Jun 6, 2017 – Jun 8, 2017	iMVP	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP Ottawa	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP Toronto	**Enroll**
Jun 6, 2017 – Jun 8, 2017	MVP Atlanta	**Enroll**
Jul 31, 2017 – Aug 2, 2017	MVP Chicago	**Enroll**
Jul 31, 2017 – Aug 2, 2017	Herndon	**Enroll**

Jul 31, 2017 – Aug 2, 2017	MVP Edison	**Enroll**
Jul 31, 2017 – Aug 2, 2017	iMVP	**Enroll**
Jul 31, 2017 – Aug 2, 2017	MVP King of Prussia (Philadelphia)	**Enroll**
Jul 31, 2017 – Aug 2, 2017	MVP Ottawa	**Enroll**
Jul 31, 2017 – Aug 2, 2017	MVP Toronto	**Enroll**
Jul 31, 2017 – Aug 2, 2017	MVP Atlanta	**Enroll**
Sep 25, 2017 – Sep 27, 2017	San Francisco	**Enroll**
Sep 25, 2017 – Sep 27, 2017	MVP Phoenix	**Enroll**
Sep 25, 2017 – Sep 27, 2017	MVP Sacramento	**Enroll**
Sep 25, 2017 – Sep 27, 2017	MVP San Jose	**Enroll**
Sep 25, 2017 – Sep 27, 2017	iMVP	**Enroll**
Nov 6, 2017 – Nov 8, 2017	MVP Chicago	**Enroll**
Nov 6, 2017 – Nov 8, 2017	Herndon	**Enroll**
Nov 6, 2017 – Nov 8, 2017	MVP Edison	**Enroll**
Nov 6, 2017 – Nov 8, 2017	iMVP	**Enroll**
Nov 6, 2017 – Nov 8, 2017	MVP King of Prussia (Philadelphia)	**Enroll**
Nov 6, 2017 – Nov 8, 2017	MVP Ottawa	**Enroll**
Nov 6, 2017 – Nov 8, 2017	MVP Toronto	**Enroll**
Nov 6, 2017 – Nov 8, 2017	MVP Atlanta	**Enroll**
Dec 18, 2017 – Dec 20, 2017	San Francisco	**Enroll**
Dec 18, 2017 – Dec 20, 2017	MVP Sacramento	**Enroll**
Dec 18, 2017 – Dec 20, 2017	MVP San Jose	**Enroll**
Dec 18, 2017 – Dec 20, 2017	MVP Phoenix	**Enroll**
Dec 18, 2017 – Dec 20, 2017	iMVP	**Enroll**

Generated Mar 6 11:48:39 UTC 2017