

Updated 07/27/2023

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Pivotal Cloud Foundry training

3 days (21 hours)

Presentation

[Pivotal Cloud Foundry](#) (PCF) is a platform designed as a service based on Cloud Foundry, an open source cloud computing platform that enables developers to deploy, operate and upgrade cloud-native applications. Companies can manage the entire application lifecycle, from packaging to deployment and execution, since Cloud Foundry supports a wide range of frameworks and application languages. With PCF, the installation and administration of cloud-native applications is simplified thanks to features for infrastructure management and provisioning, operating system patching, container orchestration, security and more. As with all our training courses, this one will introduce you to the latest stable release, [Pivotal Cloud Foundry 1.2](#).

Objectives

- Understanding Cloud Foundry
- Understanding the various Pivotal Cloud Foundry services

Target audience

Developers, application developers, architects, project managers

Prerequisites

Understanding of application development and deployment. No specific programming language required or assumed.

Pivotal Cloud Foundry training program

Introduction to Pivotal Cloud Foundry

- Evolution of cloud architectures
- Industry trends
- Cloud Foundry

Logging, Scale and HA

- Cloud Native Apps
- Elastic Runtime Architecture
- High Availability

Services

- Cloud Native Apps
- Managed services
- Service User-supplied instances

Manifests

- Using Manifests

Application safety groups

- Application security group management

Log Draining

- Cloud Native Apps
- Loggregator overhaul

Blue-green deployments

- Blue-Green routing
- App Design implications

Microservices

- The Monolith
- Microservices

Buildpacks

- Buildpack API

Service brokers

- API Service Broker

Continuous delivery

- Definition of Continuous Delivery
- How Pivotal Cloud Foundry enables continuous delivery

Route service

- Purpose
- Request Flow

Advanced topics

- TCP routing
- Cascading failure
- Distributed tracing

Security

- Securing applications with UAA and OAuth2
- Using routing services for authentication

Companies concerned

This course is aimed at both individuals and companies, large or small,

wishing to train its teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.