

Pivotal Cloud Foundry Training

DURATION : 8 weeks

MODE OF TRAINING : Online

LEVEL : Advanced

Pivotal Cloud Foundry Course Curriculum

PCF Introduction

- Introduction
- Course objectives

Introduction to Cloud Technologies

- What is the Cloud and Computing
- Evaluation of Cloud
- Understanding Architecture running with Physical

Virtualization and Cloud

- Cloud Advantages
- Limitation of Cloud

Different Types of cloud

- Public
- Private
- Hybrid

Cloud as Service

- Distinguishing IaaS, PaaS and SaaS

Overview

- Cloud Foundry overview
- Introduction to Cloud Foundry concepts

Getting Started With Cloud Foundry

- Accessing a Cloud Foundry system
- Understand UI (Web Service) and CLI

Manage Access

- What is an Organization?
- Defining a User Role
- Understanding Spaces
- The importance of the Application

Deploying application on PCF

- Deploying your first application using Spring Tool Suite (STS)
- Examining logs
- ZERO Downtime deployment
- Blue Green Deployment
- Adding and removing instances

Auto scaling with CF

- Vertical Scaling
- Horizontal Scaling

System Management

- Debugging your application
- Scaling applications under load
- Defining a manifest
- Using and creating Build-packs
- Using and creating Services
- Cloud Foundry Health Manager

Application Architecture

- Designing Cloud deployment
- Interacting with hosts, ports, resources
- Sessions and application state
- Integrating the security service

Cloud Foundry Architecture And Management

- Cloud foundry architectural components
- What is BOSH
- How Cloud Foundry works
- Manipulating underlying resources such as virtual machines and load-balancers

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Troubleshooting, Summary and Conclusion