

## Cloud Foundry and Pivotal CF, application development



DPIC-61 3 Days (21 Hours)

### Description

This training will allow you to understand the key principles of developing "Cloud Native" applications. You will learn how to set up the tools to build and use the Pivotal Cloud Foundry platform. You'll also see how to administer applications with Pivotal Cloud Foundry.

### Who is this training for ?

#### For whom

CTOs, project managers, application managers, operations managers, technical architects, developers.

#### Prerequisites

Aucune

### Training objectives

- Know "Cloud Native" application development approaches Apply technologies and tools for development with Cloud Foundry Use the Pivotal Cloud Foundry platform Understand approaches to developing and managing applications "as a Cloud"

### Training program

#### Applications "Cloud Native"

- What is "Cloud Native".
- Applications "as a Cloud" and "as a Service".
- Advantages and disadvantages.
- Microservices versus monolithic applications.
- Importance of frameworks and platforms (IaaS, PaaS, SaaS).
- New possible approaches with "Cloud Native" (DevOps, continuous delivery, microservices, containers).
- Presentation of the current offering of "Cloud Native" technologies.

## Développement d'applications modernes avec Cloud Foundry

- Architecture presentation.
- Main components (controller, router, loggregator.
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- Technologies and tools (BOSH, BOSH lite.
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- Development, deployment, hosting and implementation of applications (staging, scaling, monitoring).
- Practical work Implementation of Micro Cloud Foundry and Eclipse STS.

## Implémentation de la Plateforme Pivotal Cloud Foundry

- Presentation of the Pivotal CF platform.
- Advantages and disadvantages of Pivotal CF.
- Presentation of Pivotal Web Services.
- The line of commands (connection, deployment, scaling).
- Presentation of Eclipse STS.
- Practical work Preparation of the Pivotal CF platform and development tools.

## Utilisation de la Plateforme Pivotal Cloud Foundry

- Buildpack, manifest.
- Develop with Pivotal CF services.
- Spring framework and use with Pivotal CF.
- Use logs and Cloud Foundry analyzers to debug applications.
- Manage the "hot" and "continuous" deployment of applications.
- Practical work Development of 'an application with Pivotal CF and Spring.

## Administration d'applications

- Using Pivotal Web Services.
- Application management and monitoring with Cloud Foundry.
- Open to other PaaS (BlueMix, AWS.
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- Acceleration of business integration with the "as a Cloud" approach.
- Cloud Foundry portability by "Service Container".
- Case study Overview of the architecture and operation of a global enterprise "Cloud Native' (Netflix, AWS.
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