Tytuł szkolenia: HPE Ezmeral Container Platform Application Image Development (version 5.0)

Kod szkolenia: HJ7L4S

Wprowadzenie

This course is designed for developers who create and run big data applications on HPE Container Platform 5.0. Although the platform provides a rich set of standard application images, This course guides developers on how to create, deploy and maintain additional application-specific images. The course consists of 50% lecture and 50% lab exercises.

Adresaci szkolenia

System developers, big data application developers, business analysts, data scientists, data engineers

Prerequisites

Courses:

- HPE Container Platform Administration I (highly recommended)

Skills:

- Unix/Linux user and administration experience
- Hadoop/AI/Big Data application administration experience (Cloudera/Hortonworks, Jupyter Notebook, Tensorflow, etc.)
- Experience in machine learning life cycle (e.g. model training/development and model deployment)

Cel szkolenia

• Obtain in-depth knowledge of HPE Container Platform 5.0 EPIC Application Workbench
• Learn best practices to help accelerate the development of new application images
• Learn how to maintain and optimize application images

Czas i forma szkolenia

- 14 godzin (2 dni x 7 godzin), w tym wykłady i warsztaty praktyczne.

Plan szkolenia

1. Introduction

- Introduction
- Learning objectives review
- Course schedule review

2. HPE Container Platform 5.0 EPIC Applications and Workbench Overview

- Components of HPE Container Platform 5.0 applications
- Application Workbench overview
- Introduction to cluster and tenant metadata
- Big data application classification
- Application integration patterns

3. Training Environment Overview

- Installation
- Credentials and access walkthrough
- Building a sample application (e.g., Hello World)
  - Application creation process
- Custom base Images
- Running Action and Bootstrap scripts
- Docker Registry and usage

4. Building a Single and Multiple Role Application

- Developing a single role single service application (e.g,. Spark)
- Developing a single role multiple services application (e.g., Spark)
- Developing a multi-role multiple services application (e.g,. Spark/Jupyter)

5. Building an Advanced Multi-Role Hadoop-Based Application

- Hadoop distributions review (e.g., Cloudera, Hortonworks, MapR)
- Lecture
- Building an advanced multi-role application - CDH
- Building an advanced multi-role application - HDP

Training Environment Overview - Lab Exercise
Building a Sample Application (e.g., Hello World) - Lab Exercise
Building a Single Role & Single Service Application - Lab Exercise
Building a Single Role & Multiple Service Application - Lab Exercise
Multiple Role & Multiple Service Application - Lab Exercise
Building an Advanced Multi-Role HadoopBased Application - Lab Exercise