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## Apache Hadoop Fundamentals on Power Systems Information

**Length:** 2.0 Days  
**Ref:** QZD10G-X  
**Delivery method:** Classroom  
**Price:** EUR

### Overview

This course describes the concepts and implementation details to install, configure, and implement Hadoop on IBM Power Systems. The course covers planning for a Hadoop installation, customizing the environment, management, and using Hadoop. Hands-on exercises reinforce the lecture and give the students the experience of installing and configuring Hadoop on a Power Systems-based environment.

### Public

Anyone responsible for implementing and managing Hadoop on IBM Power Systems. The audience for this training includes the following:

- Hadoop administrators
- POWER technical support individuals
- POWER system administrators
- POWER system engineers
- POWER system architects

### Prerequisites

Students must already know the basics of configuring and managing a Virtual I/O server, virtual devices and use of the HMC to manage partitions. This prerequisite can be met by attending the following courses:

- (LX21G) - PowerLinux Administration (LX21G)

Additional course information and roadmaps can be found at:

[www.ibm.com/training](http://www.ibm.com/training)

### Objective

After completing this course, you should be able to:

- Distinguish between Big Data and Data Analytics
- Summarize the architectural components, resources, terminology and capabilities of Hadoop
- Apply both planning and requirement processes for installation of Hadoop
- Carry out the steps to configure, startup and shutdown a Hadoop cluster with the appropriate web user interfaces and administration tasks
- Implement the proper administration commands, use of safe mode and steps to add and remove DataNodes from a Hadoop Cluster

## Topics

### Lecture:

- Unit 1 - Introduction to Data Analytics
- Unit 2 - Introduction to Hadoop
- Unit 3 - Hadoop planning and implementation
- Unit 4 - Hadoop configuration management
- Unit 5 - Hadoop administration

### Labs:

- Exercise 1 - Introduction to the lab environment
- Exercise 2 - Hadoop planning and implementation
- Exercise 3 - Hadoop configuration management
- Exercise 4 - Hadoop administration