

Building Apache Hadoop on IBM Power Systems

Apache Hadoop is a framework that allows for the distributed processing of large data sets across clusters of computers using a simple programming model. It is designed to scale up from single servers to thousands of machines, each offering local computation and storage. Rather than rely on hardware to deliver high-availability, the framework itself is designed to detect and handle failures at the application layer, so delivering a highly-available service on top of a cluster of computers, each of which may be prone to failures.

There are three components integrated in this build:

- Hadoop Common, that contains the utilities that are used by any Hadoop components
- Hadoop Map Reduce, which is the framework to compute large sets of data distributed in a cluster.
- Hadoop HDFS, which is the distributed file system

The IBM POWER processor provides several features that provide better performance for Hadoop workloads. From the multiple SMT threads, to the memory bandwidth, to the fast I/O speeds, Power Systems offer an attractive and cost-efficient infrastructure for Big Data solutions.

The IBM Solutions Operating Environment hosts buildable Hadoop source trees, optimized for Linux running on POWER. These trees support both RedHat Enterprise Linux (RHEL) v6.5 or later on big-endian with PowerVM and Ubuntu v14.04 on little-endian with PowerKVM. It also works with openSUSE 13.2 (big-endian). Other versions or releases may also work, but have not been tested.

The current version available for download is Hadoop version 2.4.1.

The tree is hosted at <https://github.com/ibmcom/hadoop-common> and there is a README.txt file with information on requirements and how to build the package.

This document is aimed to complement the information available with additional details on some package installation and procedures.

It is recommended to create a user for building and managing Hadoop. In this document, we assume that there is a `hadoop` user created for that purpose. Therefore, the environment customizations required should be performed under the `hadoop` user. For software installation, root authority (either by logging in as root, or by using `sudo`) is required.

Apache Hadoop On Ibm Powerkvm

**Scott Vetter,Helen Lu,Maciej
Olejniczak,IBM Redbooks**



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