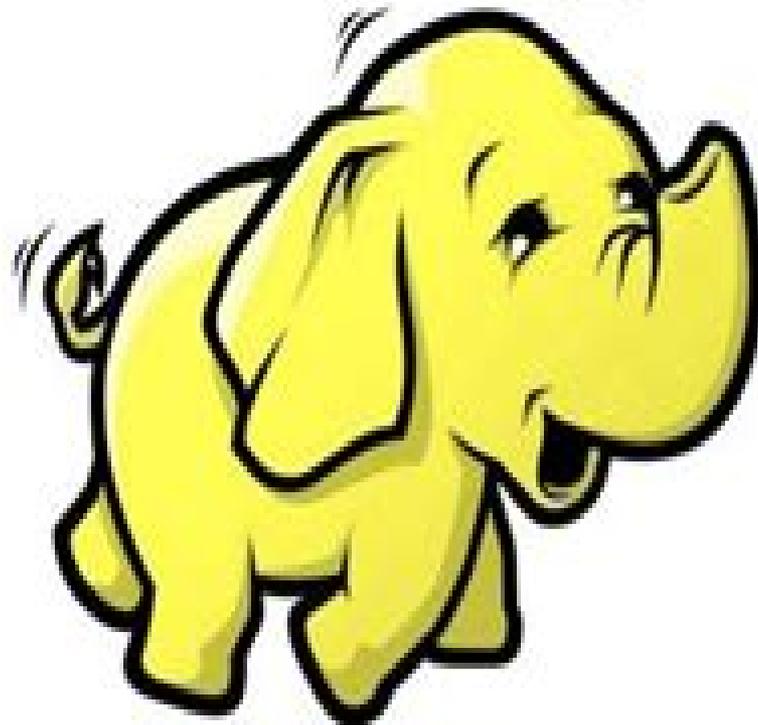


hadoop



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**Dino Quintero, Esteban Arias
Navarro, Pablo Barquero Garro, Rodrigo
Ceron Ferreira de Castro, Luis Carlos
Cruz Huertas, Peng Jiang, Franz
Friedrich Liebinger Portela, Peter
McCullagh, Ichsan Mulia
Permata, Joanna Wong, John
Wright, IBM Redbooks**

Apache Hadoop On Ibm Powerkvm:

Enterprise Data Warehouse Optimization with Hadoop on IBM Power Systems Servers Scott Vetter,Helen Lu,Maciej Olejniczak,IBM Redbooks,2018-01-31 Data warehouses were developed for many good reasons such as providing quick query and reporting for business operations and business performance However over the years due to the explosion of applications and data volume many existing data warehouses have become difficult to manage Extract Transform and Load ETL processes are taking longer missing their allocated batch windows In addition data types that are required for business analysis have expanded from structured data to unstructured data The Apache open source Hadoop platform provides a great alternative for solving these problems IBM has committed to open source since the early years of open Linux IBM and Hortonworks together are committed to Apache open source software more than any other company IBM Power Systems™ servers are built with open technologies and are designed for mission critical data applications Power Systems servers use technology from the OpenPOWER Foundation an open technology infrastructure that uses the IBM POWER architecture to help meet the evolving needs of big data applications The combination of Power Systems with Hortonworks Data Platform HDP provides users with a highly efficient platform that provides leadership performance for big data workloads such as Hadoop and Spark This IBM Redpaper™ publication provides details about Enterprise Data Warehouse EDW optimization with Hadoop on Power Systems Many people know Power Systems from the IBM AIX platform but might not be familiar with IBM PowerLinux™ so part of this paper provides a Power Systems overview A quick introduction to Hadoop is provided for those not familiar with the topic Details of HDP on Power Reference architecture are included that will help both software architects and infrastructure architects understand the design In the optimization chapter we describe various topics traditional EDW offload sizing guidelines performance tuning IBM Elastic Storage™ Server ESS for data intensive workload IBM Big SQL as the common structured query language SQL engine for Hadoop platform and tools that are available on Power Systems that are related to EDW optimization We also dedicate some pages to the analytics components IBM Data Science Experience IBM DSX and IBM Spectrum™ Conductor for Spark workload for the Hadoop infrastructure IBM Data Engine for Hadoop and Spark Dino Quintero,Luis Bolinches,Aditya Gandakusuma Sutandyo,Nicolas Joly,Reinaldo Tetsuo Katahira,IBM Redbooks,2016-08-24 This IBM Redbooks publication provides topics to help the technical community take advantage of the resilience scalability and performance of the IBM Power Systems™ platform to implement or integrate an IBM Data Engine for Hadoop and Spark solution for analytics solutions to access manage and analyze data sets to improve business outcomes This book documents topics to demonstrate and take advantage of the analytics strengths of the IBM POWER8 platform the IBM analytics software portfolio and selected third party tools to help solve customer s data analytic workload requirements This book describes how to plan prepare install integrate manage and show how to use the IBM Data Engine for Hadoop and Spark solution to run analytic workloads on IBM POWER8 In addition this publication delivers

documentation to complement available IBM analytics solutions to help your data analytic needs This publication strengthens the position of IBM analytics and big data solutions with a well defined and documented deployment model within an IBM POWER8 virtualized environment so that customers have a planned foundation for security scaling capacity resilience and optimization for analytics workloads This book is targeted at technical professionals analytics consultants technical support staff IT Architects and IT Specialists that are responsible for delivering analytics solutions and support on IBM Power Systems

Implementing an Optimized Analytics Solution on IBM Power Systems Dino Quintero,Kanako Harada,Reinaldo Tetsuo Katahira,Antonio Moreira de Oliveira Neto,Robert Simon,Brian Yaeger,IBM Redbooks,2016-06-01

This IBM Redbooks publication addresses topics to use the virtualization strengths of the IBM POWER8 platform to solve clients system resource utilization challenges and maximize systems throughput and capacity This book addresses performance tuning topics that will help answer clients complex analytic workload requirements help maximize systems resources and provide expert level documentation to transfer the how to skills to the worldwide teams This book strengthens the position of IBM Analytics and Big Data solutions with a well defined and documented deployment model within a POWER8 virtualized environment offering clients a planned foundation for security scaling capacity resilience and optimization for analytics workloads This book is targeted toward technical professionals analytics consultants technical support staff IT Architects and IT Specialists who are responsible for providing analytics solutions and support on IBM Power Systems™

AI and Big Data on IBM Power Systems Servers Scott Vetter,Ivaylo B. Bozhinov,Anto A John,Rafael Freitas de Lima,Ahmed.(Mash) Mashhour,James Van Oosten,Fernando Vermelho,Allison White,IBM Redbooks,2019-04-10 As big data becomes more ubiquitous businesses are wondering how they can best leverage it to gain insight into their most important business questions Using machine learning ML and deep learning DL in big data environments can identify historical patterns and build artificial intelligence AI models that can help businesses to improve customer experience add services and offerings identify new revenue streams or lines of business LOBs and optimize business or manufacturing operations The power of AI for predictive analytics is being harnessed across all industries so it is important that businesses familiarize themselves with all of the tools and techniques that are available for integration with their data lake environments In this IBM Redbooks publication we cover the best practices for deploying and integrating some of the best AI solutions on the market including IBM Watson Machine Learning Accelerator see note for product naming IBM Watson Studio Local IBM Power Systems™ IBM Spectrum™ Scale IBM Data Science Experience IBM DSX IBM Elastic Storage™ Server Hortonworks Data Platform HDP Hortonworks DataFlow HDF H2O Driverless AI We map out all the integrations that are possible with our different AI solutions and how they can integrate with your existing or new data lake We also walk you through some of our client use cases and show you how some of the industry leaders are using Hortonworks IBM PowerAI and IBM Watson Studio Local to drive decision making We also advise you on your deployment options when to use a GPU

and why you should use the IBM Elastic Storage Server IBM ESS to improve storage management Lastly we describe how to integrate IBM Watson Machine Learning Accelerator and Hortonworks with or without IBM Watson Studio Local how to access real time data and security Note IBM Watson Machine Learning Accelerator is the new product name for IBM PowerAI Enterprise Note Hortonworks merged with Cloudera in January 2019 The new company is called Cloudera References to Hortonworks as a business entity in this publication are now referring to the merged company Product names beginning with Hortonworks continue to be marketed and sold under their original names IBM Software Defined Infrastructure for Big Data Analytics Workloads Dino Quintero, Daniel de Souza Casali, Marcelo Correia Lima, Istvan Gabor Szabo, Maciej Olejniczak, Tiago Rodrigues de Mello, Nilton Carlos dos Santos, IBM Redbooks, 2015-06-29 This IBM Redbooks publication documents how IBM Platform Computing with its IBM Platform Symphony MapReduce framework IBM Spectrum Scale based Upon IBM GPFSTM IBM Platform LSF the Advanced Service Controller for Platform Symphony are work together as an infrastructure to manage not just Hadoop related offerings but many popular industry offerings such as Apache Spark Storm MongoDB Cassandra and so on It describes the different ways to run Hadoop in a big data environment and demonstrates how IBM Platform Computing solutions such as Platform Symphony and Platform LSF with its MapReduce Accelerator can help performance and agility to run Hadoop on distributed workload managers offered by IBM This information is for technical professionals consultants technical support staff IT architects and IT specialists who are responsible for delivering cost effective cloud services and big data solutions on IBM Power Systems™ to help uncover insights among client's data so they can optimize product development and business results *Bridging Relational and NoSQL Databases* Gaspar, Drazena, Coric, Ivica, 2017-11-30 Relational databases have been predominant for many years and are used throughout various industries The current system faces challenges related to size and variety of data thus the NoSQL databases emerged By joining these two database models there is room for crucial developments in the field of computer science Bridging Relational and NoSQL Databases is an innovative source of academic content on the convergence process between databases and describes key features of the next database generation Featuring coverage on a wide variety of topics and perspectives such as BASE approach CAP theorem and hybrid and native solutions this publication is ideally designed for professionals and researchers interested in the features and collaboration of relational and NoSQL databases

Big Data: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-04-20 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data Big Data Concepts Methodologies Tools and Applications is a multi volume compendium of research based perspectives and solutions within the realm of large scale and

complex data sets Taking a multidisciplinary approach this publication presents exhaustive coverage of crucial topics in the field of big data including diverse applications storage solutions analysis techniques and methods for searching and transferring large data sets in addition to security issues Emphasizing essential research in the field of data science this publication is an ideal reference source for data analysts IT professionals researchers and academics

IBM Technical Computing Clouds Dino Quintero,Rodrigo Ceron Ferreira de Castro,Murali Dhandapani,Rodrigo Garcia da Silva,Amitava Ghosal,Victor Hu,Hua Chen Li,Kailash Marthi,Shao Feng Shi,Stefan Velica,IBM Redbooks,2013-10-28 This IBM Redbooks publication highlights IBM Technical Computing as a flexible infrastructure for clients looking to reduce capital and operational expenditures optimize energy usage or re use the infrastructure This book strengthens IBM SmartCloud solutions in particular IBM Technical Computing clouds with a well defined and documented deployment model within an IBM System x or an IBM Flex System™ This provides clients with a cost effective highly scalable robust solution with a planned foundation for scaling capacity resilience optimization automation and monitoring This book is targeted toward technical professionals consultants technical support staff IT Architects and IT Specialists responsible for providing cloud computing solutions and support

Big Data in Practice Bernard Marr,2016-03-22 The best selling author of Big Data is back this time with a unique and in depth insight into how specific companies use big data Big data is on the tip of everyone s tongue Everyone understands its power and importance but many fail to grasp the actionable steps and resources required to utilise it effectively This book fills the knowledge gap by showing how major companies are using big data every day from an up close on the ground perspective From technology media and retail to sport teams government agencies and financial institutions learn the actual strategies and processes being used to learn about customers improve manufacturing spur innovation improve safety and so much more Organised for easy dip in navigation each chapter follows the same structure to give you the information you need quickly For each company profiled learn what data was used what problem it solved and the processes put it place to make it practical as well as the technical details challenges and lessons learned from each unique scenario Learn how predictive analytics helps Amazon Target John Deere and Apple understand their customers Discover how big data is behind the success of Walmart LinkedIn Microsoft and more Learn how big data is changing medicine law enforcement hospitality fashion science and banking Develop your own big data strategy by accessing additional reading materials at the end of each chapter

Harness the Power of Big Data The IBM Big Data Platform Paul Zikopoulos,Dirk deRoos,Krishnan Parasuraman,Thomas Deutsch,James Giles,David Corrigan,2012-10-18 Boost your Big Data IQ Gain insight into how to govern and consume IBM s unique in motion and at rest Big Data analytic capabilities Big Data represents a new era of computing an inflection point of opportunity where data in any format may be explored and utilized for breakthrough insights whether that data is in place in motion or at rest IBM is uniquely positioned to help clients navigate this transformation This book reveals how IBM is infusing open source Big Data technologies with IBM innovation

that manifest in a platform capable of changing the game The four defining characteristics of Big Data volume variety velocity and veracity are discussed You ll understand how IBM is fully committed to Hadoop and integrating it into the enterprise Hear about how organizations are taking inventories of their existing Big Data assets with search capabilities that help organizations discover what they could already know and extend their reach into new data territories for unprecedented model accuracy and discovery In this book you will also learn not just about the technologies that make up the IBM Big Data platform but when to leverage its purpose built engines for analytics on data in motion and data at rest And you ll gain an understanding of how and when to govern Big Data and how IBM s industry leading InfoSphere integration and governance portfolio helps you understand govern and effectively utilize Big Data Industry use cases are also included in this practical guide

IBM Data Engine for Hadoop and Spark Dino Quintero,Luis Bolinches,Aditya Gandakusuma Sutandyo,Niicolas Joly,Reinaldo Tetsuo Katahira,2016 This IBM Redbooks publication provides topics to help the technical community take advantage of the resilience scalability and performance of the IBM Power Systems™ platform to implement or integrate an IBM Data Engine for Hadoop and Spark solution for analytics solutions to access manage and analyze data sets to improve business outcomes This book documents topics to demonstrate and take advantage of the analytics strengths of the IBM POWER8 platform the IBM analytics software portfolio and selected third party tools to help solve customer s data analytic workload requirements This book describes how to plan prepare install integrate manage and show how to use the IBM Data Engine for Hadoop and Spark solution to run analytic workloads on IBM POWER8 In addition this publication delivers documentation to complement available IBM analytics solutions to help your data analytic needs This publication strengthens the position of IBM analytics and big data solutions with a well defined and documented deployment model within an IBM POWER8 virtualized environment so that customers have a planned foundation for security scaling capacity resilience and optimization for analytics workloads This book is targeted at technical professionals analytics consultants technical support staff IT Architects and IT Specialists that are responsible for delivering analytics solutions and support on IBM Power Systems

Big Data Analysis Senlin Luo,Limin Pan,2026-01-30 This book systematically and comprehensively explores and discusses the theory and technology of big data analysis The main topics include the basic concept of big data analytics its core architecture the calculation model used the clash between big data and information security big data and natural language processing and big data and biological information processing Given its scope the book can meet the long term training needs of diverse talents at colleges and universities as well as teaching and research staff engaged in cyberspace security computer science and technology software engineering artificial intelligence information and communication engineering and related disciplines The book also has essential practical and reference value for all those engaged in research related to big data analytics

Implementing an IBM InfoSphere BigInsights Cluster using Linux on Power Dino Quintero,Esteban Arias Navarro,Pablo Barquero Garro,Rodrigo Ceron Ferreira de Castro,Luis Carlos Cruz

Huertas, Peng Jiang, Franz Friedrich Liebinger Portela, Peter McCullagh, Ichsan Mulia Permata, Joanna Wong, John Wright, IBM Redbooks, 2015-06-16 This IBM Redbooks publication demonstrates and documents how to implement and manage an IBM PowerLinux™ cluster for big data focusing on hardware management operating systems provisioning application provisioning cluster readiness check hardware operating system IBM InfoSphere BigInsights™ IBM Platform Symphony IBM Spectrum™ Scale formerly IBM GPFSTM applications monitoring and performance tuning This publication shows that IBM PowerLinux clustering solutions hardware and software deliver significant value to clients that need cost effective highly scalable and robust solutions for big data and analytics workloads This book documents and addresses topics on how to use IBM Platform Cluster Manager to manage PowerLinux BigData data clusters through IBM InfoSphere BigInsights Spectrum Scale and Platform Symphony This book documents how to set up and manage a big data cluster on PowerLinux servers to customize application and programming solutions and to tune applications to use IBM hardware architectures This document uses the architectural technologies and the software solutions that are available from IBM to help solve challenging technical and business problems This book is targeted at technical professionals consultants technical support staff IT Architects and IT Specialists that are responsible for delivering cost effective Linux on IBM Power Systems™ solutions that help uncover insights among client s data so they can act to optimize business results product development and scientific discoveries

Keras Reinforcement Learning Projects Giuseppe Ciaburro, 2018-09-29 A practical guide to mastering reinforcement learning algorithms using Keras Key Features Build projects across robotics gaming and finance fields putting reinforcement learning RL into action Get to grips with Keras and practice on real world unstructured datasets Uncover advanced deep learning algorithms such as Monte Carlo Markov Decision and Q learning Book Description Reinforcement learning has evolved a lot in the last couple of years and proven to be a successful technique in building smart and intelligent AI networks Keras Reinforcement Learning Projects installs human level performance into your applications using algorithms and techniques of reinforcement learning coupled with Keras a faster experimental library The book begins with getting you up and running with the concepts of reinforcement learning using Keras You ll learn how to simulate a random walk using Markov chains and select the best portfolio using dynamic programming DP and Python You ll also explore projects such as forecasting stock prices using Monte Carlo methods delivering vehicle routing application using Temporal Distance TD learning algorithms and balancing a Rotating Mechanical System using Markov decision processes Once you ve understood the basics you ll move on to Modeling of a Segway running a robot control system using deep reinforcement learning and building a handwritten digit recognition model in Python using an image dataset Finally you ll excel in playing the board game Go with the help of Q Learning and reinforcement learning algorithms By the end of this book you ll not only have developed hands on training on concepts algorithms and techniques of reinforcement learning but also be all set to explore the world of AI What you will learn Practice the Markov decision process in prediction and betting evaluations Implement

Monte Carlo methods to forecast environment behaviors
Explore TD learning algorithms to manage warehouse operations
Construct a Deep Q Network using Python and Keras to control robot movements
Apply reinforcement concepts to build a handwritten digit recognition model using an image dataset
Address a game theory problem using Q Learning and OpenAI Gym
Who this book is for
Keras Reinforcement Learning Projects is for you if you are data scientist machine learning developer or AI engineer who wants to understand the fundamentals of reinforcement learning by developing practical projects
Sound knowledge of machine learning and basic familiarity with Keras is useful to get the most out of this book

Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction Khosrow-Pour, D.B.A., Mehdi, 2018-09-28
As modern technologies continue to develop and evolve the ability of users to adapt with new systems becomes a paramount concern
Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century
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Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciplines such as business and medicine
This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation

Professional Hadoop Solutions Boris Lublinsky, Kevin T. Smith, Alexey Yakubovich, 2013-09-23
The go to guidebook for deploying Big Data solutions with Hadoop
Today's enterprise architects need to understand how the Hadoop frameworks and APIs fit together and how they can be integrated to deliver real world solutions
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Professional Hadoop Solutions is the reference enterprise architects and developers need to maximize the power of Hadoop

Big Data Networked Storage Solution for Hadoop Prem Jain, Stewart Tate, IBM Redbooks, 2013-07-12
This IBM Redpaper™ provides a reference architecture based on Apache Hadoop to help businesses

gain control over their data meet tight service level agreements SLAs around their data applications and turn data driven insight into effective action Big Data Networked Storage Solution for Hadoop delivers the capabilities for ingesting storing and managing large data sets with high reliability IBM InfoSphere Big Insights™ provides an innovative analytics platform that processes and analyzes all types of data to turn large complex data into insight IBM InfoSphere Big Insights brings the power of Hadoop to the enterprise With built in analytics extensive integration capabilities and the reliability security and support that you require IBM can help put your big data to work for you This IBM Redpaper publication provides basic guidelines and best practices for how to size and configure Big Data Networked Storage Solution for Hadoop *IBM Platform Computing Solutions for High Performance and Technical Computing Workloads* Dino Quintero, Daniel de Souza Casali, Marcelo Correia Lima, Istvan Gabor Szabo, Maciej Olejniczak, Tiago Rodrigues de Mello, Nilton Carlos dos Santos, IBM Redbooks, 2015-06-19 This IBM Redbooks publication is a refresh of IBM Technical Computing Clouds SG24 8144 Enhance Inbound and Outbound Marketing with a Trusted Single View of the Customer SG24 8173 and IBM Platform Computing Integration Solutions SG24 8081 with a focus on High Performance and Technical Computing on IBM Power Systems™ This book describes synergies across the IBM product portfolio by using case scenarios and showing solutions such as IBM Spectrum™ Scale formerly GPFSTM This book also reflects and documents the IBM Platform Computing Cloud Services as part of IBM Platform Symphony for analytics workloads and IBM Platform LSF with new features such as a Hadoop connector a MapReduce accelerator and dynamic cluster for job scheduling Both products are used to help customers schedule and analyze large amounts of data for business productivity and competitive advantages This book is targeted at technical professionals consultants technical support staff IT Architects and IT Specialists that are responsible for delivering cost effective cloud services and big data solutions on IBM Power Systems to uncover insights among client data so that they can take actions to optimize business results product development and scientific discoveries **Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data** IBM Paul Zikopoulos, Chris Eaton, Paul Zikopoulos, 2011-10-19 Big Data represents a new era in data exploration and utilization and IBM is uniquely positioned to help clients navigate this transformation This book reveals how IBM is leveraging open source Big Data technology infused with IBM technologies to deliver a robust secure highly available enterprise class Big Data platform The three defining characteristics of Big Data volume variety and velocity are discussed You ll get a primer on Hadoop and how IBM is hardening it for the enterprise and learn when to leverage IBM InfoSphere Big Insights Big Data at rest and IBM InfoSphere Streams Big Data in motion technologies Industry use cases are also included in this practical guide Learn how IBM hardens Hadoop for enterprise class scalability and reliability Gain insight into IBM s unique in motion and at rest Big Data analytics platform Learn tips and tricks for Big Data use cases and solutions Get a quick Hadoop primer **Data Analysis with Microsoft Power BI** Brian Larson, 2020-01-03 Explore create and manage highly interactive data visualizations using

Microsoft Power BI Extract meaningful business insights from your disparate enterprise data using the detailed information contained in this practical guide Written by a recognized BI expert and bestselling author Data Analysis with Microsoft Power BI teaches you the skills you need to interact with author and maintain robust visualizations and custom data models Hands on exercises based on real life business scenarios clearly demonstrate each technique Publishing your results to the Power BI Service PowerBI.com and Power BI Report Server are also fully covered Inside you will discover how to Understand Business Intelligence and self service analytics Explore the tools and features of Microsoft Power BI Create and format effective data visualizations Incorporate advanced interactivity and custom graphics Build and populate accurate data models Transform data using the Power BI Query Editor Work with measures calculated columns and tabular models Write powerful DAX language scripts Share content on the PowerBI Service PowerBI.com Store your visualizations on the Power BI Report Server

Apache Hadoop On Ibm Powerkvm Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Apache Hadoop On Ibm Powerkvm**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Apache Hadoop On Ibm Powerkvm Introduction

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