A Reference Architecture For Big Data Solutions

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A Reference Architecture For Big
This post (and our paper) describe a reference architecture for big data systems in the national security application domain, including the principles used to organize the architecture decomposition. This reference architecture serves as a knowledge capture and transfer mechanism, containing both domain knowledge (such as use cases) and solution knowledge (such as mapping to concrete technologies).

Reference Architectures for Big Data Systems
Our reference architecture for big dat a systems is composed . of different components in which different functionalities and . processes are described in graphical notations with short .

(PDF) A reference architecture for big data systems
A Reference Architecture for Big D ata Systems in the National Security Domain John Klein Software Engineering Institute Carnegie Mellon University Pittsburgh, PA, USA jklein@sei.cmu.edu Ro ss Buglak, David Blockow, Troy Wuttke, Brenton Cooper Data to ...

A Reference Architecture for Big Data Systems in the ...
Big data certainly is a new concept exciting business. To be able to access more data and empower to analysis big data requires new big data platforms. However, there still remains limited reference architecture for big data systems.

A reference architecture for big data systems - IEEE ...
The λ-architecture is the most widespread framework for scalable and fault-tolerant processing of Big Data.Its goal is to enable efficient real-time data management and analysis by being divided into three layers ().The Batch Layer stores a copy of the master data set in raw format as data are ingested. This layer also pre-computes Batch Views that are provided to the Serving Layer.

A software reference architecture for semantic-aware Big ...
http://www.ibm.com/bigdata/ Continuing our series on Big Data use cases and reference architectures, Bill O'Connell, IBM Distinguished Engineer and CTO of ou...

Reference Architecture for Big Data and the Data Warehouse ...
Reference Architecture. We discuss some of the background behind Big Data and review how the Reference Architecture can help to integrate structured, semi-structured and unstructured information into a single logical information resource that can be exploited for commercial gain.

Information Management and Big Data: A Reference Architecture
The reference architecture presented in this document provides an architecture framework for describing the big data components, processes, and systems to establish a common language for the various stakeholders named as big data reference architecture (BDRA).

Information technology — Big data reference architecture
The contribution of this paper is reference architecture (RA) design of a big data system utilising ML techniques in edge computing environments. An earlier version of the RA has been extended based on 16 realised implementation architectures, which have been developed to edge/distributed computing environments.

Extending reference architecture of big data systems ...
The reference architecture for big data systems is comprised of semi-detailed functional components and data stores, and data flows between them (research question 1). The presented design contained description of the architectural elements (Section 4.1).

Reference Architecture and Classification of Technologies ...
The NIST Big Data Reference Architecture is a vendor-neutral approach and can be used by any organization that aims to develop a Big Data architecture. The Big Data Reference Architecture, is shown in Figure 1 and represents a Big Data system composed of five logical functional components or roles connected by interoperability interfaces (i.e., services).

Introduction to Big Data Architecture | Big Data Framework
Big Data Analytics Reference Architectures: Big Data are becoming a new technology focus both in science and in industry and motivate technology shift to data centric architecture and operational ...

Big Data Analytics Reference Architectures - Big Data on ...
A so called Reference Architecture has created order in many domains, ranging from applications to Business Intelligence. This article will suggest a Reference Architecture for Big Data.

A Big Data Reference Architecture
To summarise, the big data solution reference architecture is a new and unique model that delivers a strong contribution to the community of architects and other people who are working with big data technology, open data and predictive analytics. 8.1 Observations By presenting a questionnaire to a group of big data experts, the resulting reference architecture was justified and evaluated.

A reference architecture for big data solutions ...
The reference architecture for h ealthcare and life sciences (as shown in Figure 1) was designed by IBM Systems to address this set of common requirements. It reflects the current evolution in HPC, where technical computing systems need to address the batch workloads of traditional HPC, as well as long-running analytics involvi ng big data.

A reference architecture for high performance analytics in ...
A big data architecture is designed to handle the ingestion, processing, and analysis of data that is too large or complex for traditional database systems. The threshold at which organizations enter into the big data realm differs, depending on the capabilities of the users and their tools.

Big data architectures - Azure Architecture Center ...
In this study, we clarify the basic nomenclatures that govern the video analytics domain and the characteristics of video big data while establishing its relationship with cloud computing. We propose a service-oriented layered reference architecture for intelligent video big data analytics in the cloud.

Video Big Data Analytics in the Cloud: A Reference ...
The Big Data Solution Reference Architecture has been investigated for its quality by every 10 data experts out of number of 50. This investigation on questionnaire indicates that the solution meets all its quality criteria based on research design in modularity, maintainability, reusability, performance and scalability.

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