



RED HAT JBOSS MIDDLEWARE

Red Hat JBoss and Hortonworks

Proof of Technology

USE CASE 1 – SENTIMENT ANALYSIS AND SALES ANALYSIS WITH HADOOP AND MYSQL



Use Case 1 - Overview

Objective:

-Determine if sentiment data from the first week of the Iron Man 3 movie is a predictor of sales

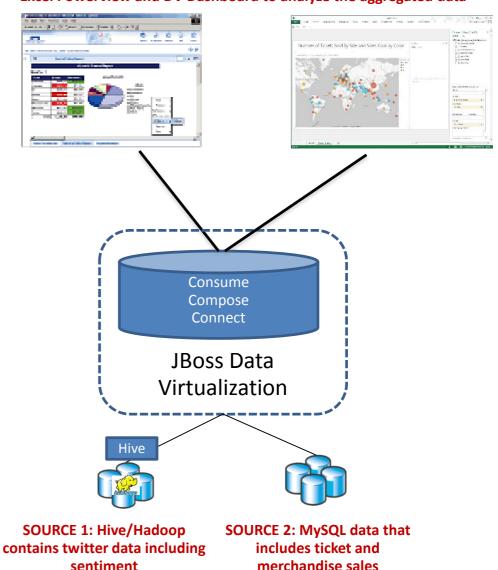
Problem:

-Cannot utilize social data and sentiment analysis with sales management system

Solution:

-Leverage JBoss Data Virtualization to mashup Sentiment analysis data with ticket and merchandise sales data on MySQL into a single view of the data.

Excel Powerview and DV Dashboard to analyze the aggregated data

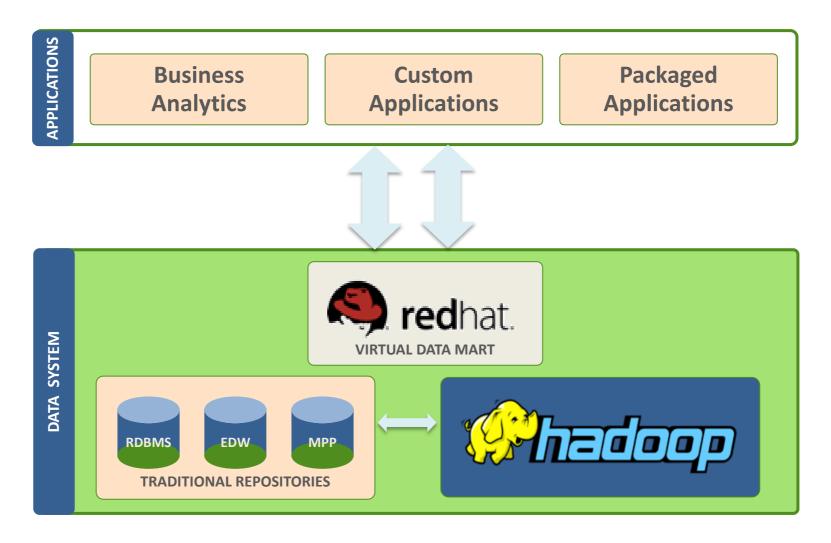








Use Case 1 – Architecture



Sentiment and Sales Analysis with Hadoop and MySQL





Use Case 1 - Resources

GUIDE

https://drive.google.com/folderview?id=0B5kKwcd4kOq9RUlHcVBMVjJuX2c&usp=sharing

VIDEOS:

http://vimeo.com/user16928011/hortonworksusecase1shorthttp://vimeo.com/user16928011/hortonworksusecase2shorthttp://vimeo.com/user16928011/hortonworksusecase

SOURCE:

5

https://github.com/DataVirtualizationByExample/HortonworksUseCase1





USE CASE 2 – FEDERATED HADOOP WITH SECURITY



Use Case 2 - Overview

Objective:

-Secure data according to Role for row level security and Column Masking

Problem:

-Cannot hide region data from region specific users

Solution:

-Leverage JBoss Data Virtualization to provide Row Level Security and Masking of columns

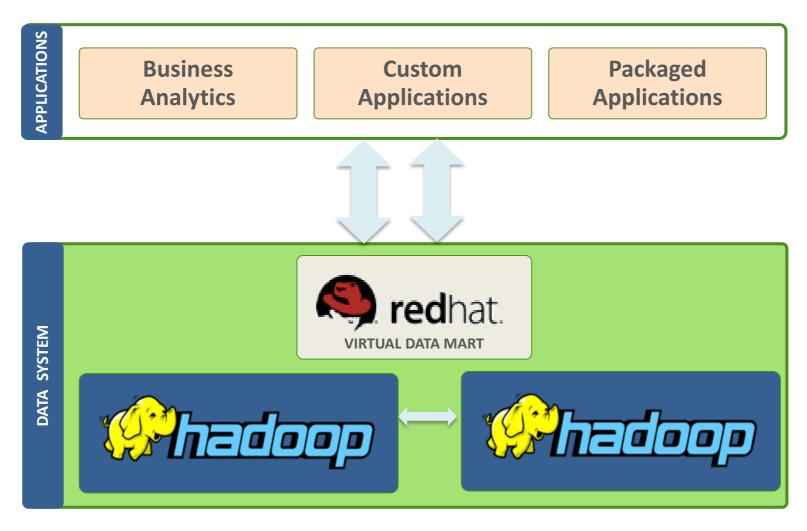
DV Dashboard to analyze the aggregated data by User Role Consume Compose Connect JBoss Data Virtualization

SOURCE 1: Hive/Hadoop in the HDP contains US Region Data SOURCE 2: Hive/Hadoop in the HDP contains EU Region Data





Use Case 2 - Architecture



Scenario: two Hadoop clusters, different location (US & EMEA), two types of dataset for each regions.





Use Case 2 - Resources

GUIDE

https://drive.google.com/folderview?id=0B5kKwcd4kOq9RUlHcVBMVjJuX2c&usp=sharing

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VIDEOS:

http://vimeo.com/user16928011/hortonworksusecase2shorthttp://vimeo.com/user16928011/hortonworksusecase

SOURCE:

9

https://github.com/DataVirtualizationByExample/HortonworksUseCase2





USE CASE 3 – HADOOP DATALAKE



Objective:

-Purpose oriented data views for functional teams over a rich variety of semi-structured and structured data

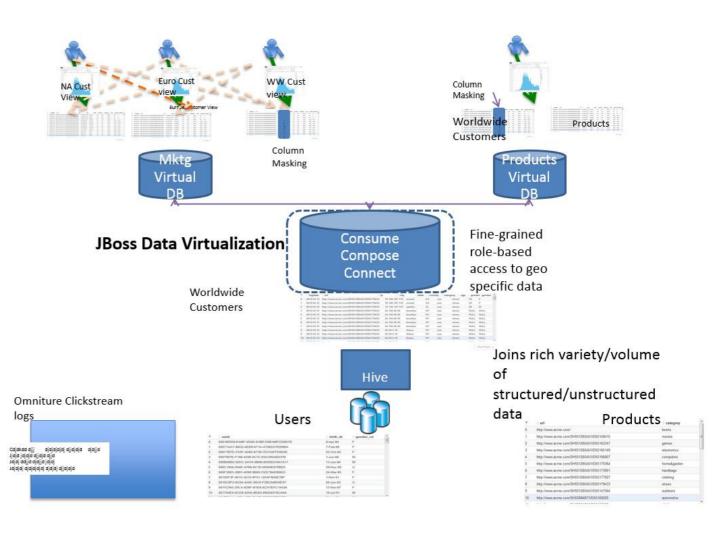
Problem:

-Data Lakes have large volumes of consolidated clickstream data, product and customer data that need to be constrained for multidepartmental use.

Solution:

- -Leverage HDP to mashup Clickstream analysis data with product and customer data on HDP to answer
- Leverage Jboss Data Virt to provide Virtual data marts for each of Marketing and Product teams to

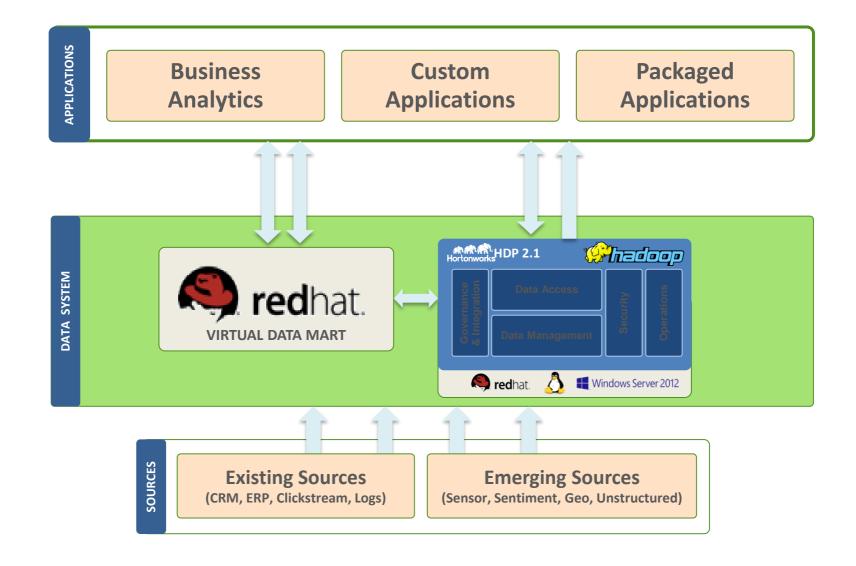
Use Case 3 - Overview







Use Case 3 - Architecture







Use Case 3 - Resources

GUIDE

https://drive.google.com/folderview?id=0B5kKwcd4kOq9RUlHcVBMVjJuX2c&usp=sharing

VIDEOS:

http://vimeo.com/user16928011/hortonworksusecase3shorthttp://vimeo.com/user16928011/hortonworksusecase

SOURCE:

https://github.com/DataVirtualizationByExample/HortonworksUseCase3





13 RED HAT