Pentaho Enterprise Architecture Workshop for ISVs and SaaS Companies

Best Practices and Expertise for Integrating or Embedding Pentaho into Your Application

With compelling visualizations as well as an open architecture and an integrated suite of capabilities, including data access, integration, and discovery, Pentaho provides an ideal solution for SaaS providers looking to embed a full analytics offering into their application.

The Pentaho Architecture Workshop allows you and Pentaho to collaborate on architecting a solution that will integrate or embed Pentaho into your software application. In this hands-on workshop, a Pentaho Principle Consultant or Enterprise Architect will explore how Pentaho's architecture should be deployed to best match your technical and functional requirements.

The result is a joint application design methodology that will help you reduce your development costs and time to market. This workshop includes:

- Reviewing and discussing Partner's requirements including project deadlines and milestones
- Discussing software code samples to demonstrate the various supported techniques for integrating, extending, and embedding Pentaho technology
- Gain a basic understanding of various Big Data technologies such as Hadoop and MongoDB and how Pentaho works with them
- Documenting a set of architectural recommendations to meet the Partner's project timelines

TYPICAL OUTLINE OF THE ENGAGEMENT

Day 1	
Requirements Exploration Discussion between the Partner and Pentaho Architect, designed to explore and document the functional, non-functional, and technical requirements for the project including the current project plan.	3 hours
Pentaho Architecture Overview Presentation by Pentaho Architect on the overall architecture of Pentaho Business Analytics. The presentation may be substituted for a more detailed discussion of the architecture of an individual component of the suite related to the requirements.	2 hours
Integrating, Extending, and Embedding Pentaho Guided high-level exploration of the different supported techniques for integrating, extending, and embedding Pentaho Business Analytics or Pentaho Data Integration.	3 hours
Day 2	
Intregrating with Big Data Introduction to Hadoop and Hadoop basics such as HDFS and MapReduce. Introduction to various Hadoop framework technologies such as Pig, Flume, Hive and HBase. Introduction to NoSQL technologies such as MongoDB, Cassandra and HBase. Demo of Pentaho Data Integration for building Big Data and NoSQL data flows. Demo of Pentaho Instaview to access and visualize data sets in Hadoop, HBase, MongoDB and more.	8 hours

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Day 3	
Joint Architecture Design Session Whiteboarding session to develop the architecture and discuss the pros and cons of various approaches.	5 hours
Implementation Strategies Discussion of the different strategies to implement the architecture, the necessary resources and skills required, and the available Pentaho resources to aid in the implementation.	3 hours

Benefits

- Faster time to market by leveraging the experience of the Pentaho Enterprise Architect who is guiding you through the integration and embedding options
- Reduced maintenance costs by understanding best practices concerning big data implementations, multi-tenancy, single sign on, integration with external applications and extension of product functionality
- Insight into the Pentaho product roadmap

Duration

- Three days – on site engagement
- Last day – spent remotely to review partner's requirements and to develop a workshop summary

Who Should Attend?

- Software architects
- Product developers
- Product testers and quality assurance teams
- Data Scientists
- Big Data Developers

Workshop Requirements and Skills

- Partner to provide a high-level overview of the desired requirements and future plans for the integration between Pentaho and partner's application.
- XML, JavaScript, and Web 2.0 concepts
- A basic understanding of Java programming is helpful, but not critical
- Basic understanding of big data concepts and technologies

SAMPLE OF QUESTIONS YOU CAN EXPECT TO ANSWER AFTER THIS WORKSHOP:

- How do I architect a solution to accommodate multiple companies/groups/organizations' data, while maintaining each company/group/organization' personal point of view of the data?
- What are the options for supporting my specific multi-tenancy requirements?
- How do I use Pentaho's web services to deliver business analytics within my own web application or mashups?
- What are the supported best practices for integrating Pentaho solution content into my own application?
- How do I integrate my own custom visualizations (maps, charts, gauges, etc) into Pentaho?
- How do I provide security across the Pentaho platform?
- How do I architect single sign-on between my application and Pentaho?
- How do I integrate Pentaho security with my existing software's users and roles?
- How do I architect integrated solutions using ETL, reporting, analysis and dashboards to deliver my customer's specific solutions?
- How can I plug a custom data source into the Pentaho?
- How can I quickly go from big data sets to analytic visualizations using Instaview?
- How do all the Hadoop technologies work together?
- How can I use Pentaho products to create a Big Data workflow?
- How do I import and export data to and from Hadoop?

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