

Big Data Solutions Architecture Workshop

BEST PRACTICES AND EXPERTISE FOR CREATING A VISION AND IMPLEMENTATION BLUEPRINT FOR YOUR BIG DATA ANALYTICS SOLUTION

New big data analytics technologies come with a host of skills, integration and governance challenges. The Pentaho Big Data Solutions Architecture Workshop is facilitated by Pentaho architects and experts to enable collaboration across your organization by bringing together diverse needs and requirements from multiple stakeholders. During this workshop, you will analyze requirements, create milestones, a governance approach, key processes and identify the multiple roles and responsibilities required to develop a holistic approach that addresses your business problem or opportunity.

Typical 4-Day Workshop Outline

DAY 1

Introductions and Engagement Review: Introduce all workshop participants by their role and responsibilities. Walkthrough the Workshop agenda, expectations and outcomes.

Project Overview: Discussion of the overall goals and objectives for the initiative. Conduct a review of risks, dependencies and assumptions. Identify the key development and management processes and roles required to successfully develop and deliver the solution.

Introduction to Pentaho: Presentation on the overall Pentaho Business Analytics (BA) Suite and architecture. This discussion sets the foundation for a Pentaho-based solution.

Begin Data Discovery: Assess availability of specific items in available data sets. Use visual tools to make the process of finding patterns or specific items rapid and intuitive

DAY 2

Complete Data Discovery: Complete exploration of data needed for initiative from all available sources

Discussion on Data storage and Data Warehousing: Identify existing architecture and implementation and available options to improve on them

Examine Acquiring and Processing data: Collaborative session to identify processes and procedures for acquiring data and processing data to meet requirements

Workshop Includes:

Discussion and alignment of program goals and objectives

Building knowledge of emerging technologies and Pentaho

Accelerated requirements gathering and analysis

Creating the Solution Architecture

Review Big Data and Hadoop Best Practices derived from Pentaho implementations and industry wide best practices

Document an implementation blueprint to realize the solution that includes key milestones, governance approach, key processes and roles and responsibilities

“We would be dead in the water without Pentaho services. Getting an initial consulting and education helped us not only to get up and running pretty rapidly, but also to gain the confidence we needed to have on the full power behind Pentaho. We can easily say that having an initial architecture discussion allowed us to go to market three months ahead of schedule.”

- MATT BOISVERT, CO-FOUNDER & COO | PHAROS RESOURCES

Review Reporting requirements: Collaborative session to identify report contents, report format, the report delivery system, security, report lists and dashboards

Predictive Modeling and outcomes: Discussion on identifying the outcomes from predictive modeling, the different models to support those outcomes and the data sets to feed those models

Big Data Best Practices: Examination of Big Data and Hadoop best practices derived from Pentaho implementations and industry wide best practices

DAY 3

Continue Big Data Best Practices: Continue discussion of Big Data best practices

Categorize users: Categorize users based on skills, access and needs.

Authentication and authorization: Discuss native and integrated security requirements for different categories of users

Securing data and content: Discuss native and integrated security requirements for data and content including multi-tenancy, SSO, LDAP, AD, IWA, CAS, Kerberos and more

Auditing: Discuss level of auditing required in initiative based on industry regulations and internal compliance requirements

Integration: Review integration with 3rd party systems including existing scripts, schedulers, security systems, APIs and more

DAY 4

Scalability and performance: Examine performance requirements and expected data and user load on the system and SLAs to meet

Failover and fault-tolerance: Discuss uptime requirements for initiative

Roles and Responsibilities: Discuss roles and responsibilities of the project team until project goes live and for ongoing administration and improvements. Detail the identified key development and management processes required to successfully develop and deliver the solution.

Who Should Attend?

Project sponsor

Business end-users

Technical architects

Technology leaders and stakeholders

Developers

Project team leaders and members

Project plan: Jointly develop a high-level project plan, based on customer milestones that show the major activities needed to implement the solution.

Project skills, training and services' needs: Identify the necessary resources and skills required, and the available Pentaho resources and training to aid in the implementation.

Implementation Strategies and Project Planning: Discussion of the different strategies to implement the architecture.

Summary and Next Steps: Summarize the accomplishments for the week and walkthrough the next steps to complete the Solution Architecture Workshop Summary Document.

Benefits

- Align technology roadmap requirements to Pentaho functionality
- Deploy Pentaho faster and reduce risks
- Increase project transparency across business and technology stakeholders
- Improve alignment, expectations and buy-in from all stakeholders
- Enhance accuracy of scope, business objectives and requirements

Duration

- Four days – on-site workshop
- Last day – spent remotely to create the project summary deliverable

Questions This Workshop Will Answer

- What is the vision, goals and objectives for the project?
- What are the key project and solution requirements?
- What Big Data technologies are utilized in the solution? Do I have to possess them?
- How does Pentaho fit into the solution?
- What is the technical architecture needed for the solution?
- What are the various roles, resources and skill sets required to successfully implement the solution? Do I have them?
- What training do I need for the project team?
- What key processes are needed to be in place to aid in the project's success?
- How long is the project? What are the key milestones? Risks?
- What is the implementation approach and plan?
- How can Pentaho help make me successful?

Workshop Requirements and Skills

Overall vision of the solution

Project goals and objectives

High-level requirements and plans

Participation of all key stakeholders and decision-makers

Representation from all impacted technology and operational groups