



PROFESSIONAL SERVICES OFFERING

HDP[®] OPTIMIZATION ANALYSIS AND BLUEPRINT

Hortonworks Data Platform (HDP[®]) capabilities evolve continuously through the power of open community innovation. Meanwhile your business requirements are also changing at a fast pace, with more data applications and increased workloads being added to your cluster. As with any mission critical software platform, your cluster performance must be optimized to ensure it continues to meet your evolving requirements. A Hortonworks Professional Services (PSO) Architect can help you identify opportunities not only to overcome the potential complexities introduced by the vast number of configuration permutations available on the HDP platform, but also to help with the complex interplay of external factors impacting the cluster itself. The Architect will help lead this analysis and will build a custom blueprint for your administration team, providing an approach to improve the performance and stability of your environment.

HIGHLIGHTS

- Leverage the knowledge and experience of Hortonworks Professional Services to prepare your organization for the next phase of Apache[™] Hadoop[®] adoption and maturation.
- Collaborate with the Hortonworks team to create a blueprint to drive next steps around Hadoop in your enterprise.
- Improve your teams understanding of the impacts of certain external factors on cluster performance.

PAIN POINTS

Long term success around your Hadoop implementation can be negatively impacted by factors both internal and external to the cluster itself. From internal challenges with your cluster's configuration, due to local environmental issues, human error, or knowledge and expertise deficiencies derived from an inability to align with the pace of innovation, to external factors such as suboptimal development code and/or practices or enterprise environment misalignment, many variables impact your cluster's ability to meet and/or exceed performance and overarching stability expectations. Having a blueprint to understand these immediate impacts while also considering upcoming requirements and expected SLAs of future use cases, will support the development of a strategy to overcome these challenges and drive toward operational excellence.

WHY HORTONWORKS SERVICES

The Hortonworks Services team brings together the experience gained from hundreds of Hadoop implementations with customers around the globe and pairs it with collective knowledge and recommended practices. Our proven methodologies are derived from experience and close collaboration and access to expert peers, Product Management, Hortonworks Support and the Engineering teams who are at the heart of the development of the open source components.

OUR GOAL

Our goal is to design a blueprint with you to help your team to improve the performance and stability of your HDP clusters, reducing your effort, and overcome some of the common challenges of advancing your Hadoop maturity.

WHAT WE OFFER

The HDP Optimization Analysis and Blueprint helps your organization accelerate its ability to overcome some of these challenges via a collaborative analysis engagement with Hortonworks PSO. The engagement includes many facets including a current state assessment of several topics focusing on customer-identified pain points, a Cluster Health Check to check whether "key" components are either working effectively or that your administration plan has an approach to resolve them, and a Use Case Assessment activity centered around a workshop to understand the upcoming opportunities for your organization around the Hadoop platform. Each of these activities will be incorporated into a set of documented findings and recommendations.

SERVICE DESCRIPTION

Project Steps

- Current State Assessment (CSA)
 - Review Cluster Physical Topology
 - cursory hardware and network analysis in alignment with SLA requirements and use case roadmap
 - Validation of OS/Network configuration and setup (storage, "ulimits", firewall, supported OS)
 - Data organization within HDFS (e.g. staging concept)
 - Capacity, sizing, and growth strategy
 - HDP architecture and design assessment
 - Backup and DR requirements and strategies
 - Review of security model
 - Review HA Configuration
 - Assess current and recommended resource management (e.g. scheduler, queues)
 - Assess cluster utilization and utilization patterns
 - Evaluate current state platform and data architectures against use case blueprint
 - Evaluate current state blueprint against HDP product strategy
 - Draft future state recommendations

- Cluster Health Check (CHC)
 - HDP deployment and configuration assessment
 - Platform security implementation assessment
 - Data ingestion process and configuration analysis
 - Data lifecycle assessment
 - Draft cluster recommendations
 - Benchmark current cluster performance profile
- Use Case Documentation (UCD)
 - Conduct workshop to:
 - Capture use cases
 - Assess and prioritize use cases
 - Create use case inventory and blueprint

Deliverables

- Cluster Assessment and Recommendations Blueprint
- Use Case Inventory Document

Key Assumptions

- SmartSense installation and recommendations will be included in final deliverables
- HDP 2.x or greater cluster is installed and configured prior to engagement

Key Customer Tasks and Dependencies

- Customer will deliver known issues log prior to engagement
- Customer will provide direct access to cluster to all Hortonworks Architects

Recommended Customer Team

- Executive Sponsor
- Project Manager/Technical Lead/Decision Maker
- Hadoop Administrator
- Network Administrator
- Key Technologists (dependent on in-scope CSA activities)

Typical Hortonworks Team

- Systems Architect
- Engagement Manager

Out of Scope

- Deep dive into specific topics not explicitly defined in a Statement of Work
- Resolution of any discovered issues or recommendations
- Use Case Ideation Workshops or Use Case capture beyond what is already known
- Any 3rd party tool analysis or assessment

FOR MORE INFORMATION

This document does not constitute an offer. For more information about HDP Optimization Blueprint or any other Hortonworks Professional Services offerings, contact your Hortonworks representative or visit our website: hortonworks.com/services

About Hortonworks

Hortonworks is a leading innovator at creating, distributing and supporting enterprise-ready open data platforms. Our mission is to manage the world's data. We have a single-minded focus on driving innovation in open source communities such as Apache Hadoop, NiFi, and Spark. Our open Connected Data Platforms power Modern Data Applications that deliver actionable intelligence from all data: data-in-motion and data-at-rest. Along with our 1600+ partners, we provide the expertise, training and services that allows our customers to unlock the transformational value of data across any line of business. We are Powering the Future of Data™.

Contact

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