

INFOSYS DATA OPERATIONS WORKBENCH

Empowering Businesses to holistically monitor their Platforms by unleashing the power of Infosys Data Operations Workbench

Business Imperatives

90% Clients building Data Lake are struggling to monitor various aspects such as:

	<p>Data Ingestion Barriers:</p> <ul style="list-style-type: none"> • Don't know what got ingested in the lake. Needs manual intervention to check 		<p>Integration Barriers:</p> <ul style="list-style-type: none"> • Difficult to choose a single tool which can integrate all internal/external interfaces for monitoring
	<p>Access and Usability Barriers:</p> <ul style="list-style-type: none"> • Challenges in monitoring access to various cluster components and to keep track on usability 		<p>Performance Barriers:</p> <ul style="list-style-type: none"> • Difficulty in comprehensively monitoring the health of a cluster especially during peak loads/issues with manual intervention
	<p>Technology Barriers:</p> <ul style="list-style-type: none"> • Absence of central monitoring tool to monitor all aspects under one umbrella and provide valuable insights 		<p>Productivity Barriers:</p> <ul style="list-style-type: none"> • Difficulty in estimating and predicting future scale-up needed based on the existing usage, increased data volume etc.

80 % of the time gets spent on issue resolution with manual intervention in the absence of a centralized monitoring solution.



Breaking the barriers

Infosys Data Operations Workbench breaks the barriers by providing Centralized platform to monitor Hadoop cluster environment under one umbrella.

Enabling Proactive Monitoring using Infosys Data Operations Workbench

	<p>Data Ingestion Monitoring: Allows comprehensive monitoring of all files/feeds ingested into the cluster including time trends and failure analysis with drilldowns, based on metadata recorded using an existing Data Ingestion Framework.</p>		<p>Predictive Analysis: Helps administrators in decision making for cluster scale up based on the existing usage of cluster resources.</p>
	<p>Cluster Health Monitoring: Provides holistic monitoring of the cluster from apps, nodes, memory/CPU usage perspective.</p>		<p>Integration with Ticketing tool: Enables proactive alerting and notification mechanism including insights depicting the current ticketing trends based on the issues.</p>
	<p>Data Quality Monitoring: Provides detailed monitoring of the quality of the data ingested based on the metadata recorded using an existing Data Quality Framework.</p>		<p>User Activity Monitoring: Gives a clear insight into usage and access patterns of various components in the cluster based on existing users logging in to the cluster.</p>

Benefits

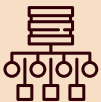
Unified Solution	<ul style="list-style-type: none">• Different Hadoop monitoring capabilities are bundled together and are available under one umbrella.
Rich Visualization	<ul style="list-style-type: none">• Custom data visualizations with drilldown capability
Automated Alerts and Notifications	<ul style="list-style-type: none">• Real time alerts and notifications to automate the monitoring of your system to track when metrics crosses the thresholds and to resolve the issue in advance and thus making the solution proactive in nature.
Real time Dashboards	<ul style="list-style-type: none">• Provides near real time monitoring dashboards for updated status of an existing cluster at any given point of time based on the APIs and logs leveraged behind the scenes
Customized features	<ul style="list-style-type: none">• Provides multiple customized and additional features over and above other monitoring tools which can be catered to any given Hadoop cluster.
Prediction and Anomaly Detection	<ul style="list-style-type: none">• Leverages in-built Predictive Analysis and Anomaly Detection features provided in the latest Splunk version to assist in important decisions like infrastructure scale up, incorporating appropriate security features etc.
Integration Capability	<ul style="list-style-type: none">• Integration capability with common ticketing tools and other external tools based on the out of the box add-on and apps available in Splunk, which can be further extended/customized for specific scenarios.

Value Adds



- Enables various monitoring mechanisms through an integrated platform
- Loosely coupled architecture to integrate with existing client investments to maximize ROI leveraging Splunk as the Operational Intelligence tool
- Enables automated and proactive monitoring of an existing Hadoop cluster and other Platforms using customized insights and alerting and notification mechanisms

Deployment Options



- On Premise : Deployed at the clients's DC. Configured for Multi-Tenancy to operate as shared service
- On Cloud : Can be deployed on AWS using Splunk Cloud Option

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