

Enriching ALM & DevOps Ecosystems Through Data Lakes



Executive Summary

Large enterprises are always on the lookout for infrastructure and tools that support their data management needs. Data Lake is one such infrastructure that has the capability to effectively manage the heterogeneous data that is generated within the enterprise every day. With sound application of Data Lakes in the [ALM & DevOps ecosystem](#), enterprises can scale their digital journey to reformative heights. Data Lakes help enterprises manage, govern, access, and explore data that further enable them to tap into previously untapped, un-analyzed data and make smarter, more agile, data-driven decisions. As data custodians, Data Lakes combat the challenges associated with leveraging disparate data sources, which in turn help enterprises create an environment conducive for comprehensive reporting framework and advanced analytics.

This blog discusses in detail the need for an enterprises to create a Data Lake within its ALM & DevOps ecosystem, the mechanism to create a Data Lake and introduces OpsHub Data Bridge – the first of its own kind data aggregation tool that helps enterprises pool in data into the Data Lake.

The Importance of Data Lake in an ALM and DevOps Ecosystem

The uninterrupted flow of data within an ALM and DevOps ecosystem is vital for making critical decisions related to application lifecycle management. The continuous data ingestion bolsters an enterprise's capacity to analyze data and allows them to seize opportunities as they unfold. The real-time data flow, facilitated by Data Lakes, plays a pivotal role in helping enterprises timely identify interesting events that can be converted into actionable insights throughout the application lifecycle.

Data Lakes Make Application Delivery Process Efficient

➤ **Cross-domain Visibility for Better Reporting**

The uniqueness of Data Lake lies in assimilating heterogeneous data in one place, thereby solving the problem of data accessibility. Data silos break down in the presence of Data Lakes and enable all stakeholders in the ALM and DevOps ecosystem to have a 360-degree view of all the available data. With Data Lakes, enterprises can leverage cross-domain contextual data in a robust manner, improve their flow metrics and activity analysis mechanism.

➤ **Enhanced Agility to Apply Advanced Analytics**

Data Lake, with its centralized data collection feature, empowers an enterprise to execute various analytics and apply advanced Artificial Intelligence with ease. With Data Lake in the ALM and DevOps ecosystem, data reporting framework can be made more robust alongside the introduction of automation to speed-up the reporting process. As a result, enterprises can easily foresee applicative insights and utilize the accurate predictions for continuously improving the product quality.

➤ **Compliance Ready – Always**

Data Lake fortifies an enterprise's technoscape with rapid, agile, and systematic integration of vast amount of data. It not only makes auditing and compliance convenient and easier for the enterprises but also enables enterprises to phase out old, legacy systems and bring in new agile systems without worrying about loss of data traceability.

Creating a Sturdy Data Lake using OpsHub Data Bridge

Imagine data from the [entire ALM and DevOps toolset](#) – the Requirement Management system, the Development and Quality Control system, the Source Control Repository, and the Customer Relationship Management system – present at one single, unadulterated source. OpsHub Data Bridge, the latest OpsHub offering, is exclusively designed for enterprises to fulfill the need for such data aggregation with ease. It pools in data from across the ALM and DevOps ecosystem into the Data Lake, which allow enterprises to:

- Co-relate data across users, applications, and infrastructure.
- Apply automation to reduce the data noise and faster the delivery cycle.
- Apply advance analytics to deliver a new level of data visibility across cross-functional teams.
- Keep the data in a compliance-ready state.

Conclusion

All this eventually creates a transparent ecosystem with streamlined data flow – which helps enterprise to take comprehensive, run-time decisions during application delivery and deliver better products at a much faster pace than usual.

To learn more about how OpsHub Data Bridge works, schedule a [complimentary consultation session with our experts](#)



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