Challenges

With fast data pipelines on Kubernetes, enterprises and government organizations of all sizes can collect, transport, and process data in real-time to provide meaningful insights and actionable outcomes. However, running a fast data pipeline on Kubernetes isn’t without its challenges, especially as organizations move from production at scale.

Complex Implementations
Key data services, such as Spark, Cassandra, and Kafka, that comprise a fast data pipeline have very different access patterns, performance characteristics, and implementations. They require significant engineering effort and technical know-how to set up correctly.

Manual Operational Effort
Ongoing maintenance of all the data sources includes a number of manual tasks, such as upgrading software, deploying updates, roll backs, and more. This can lead to an increase in overhead, operating costs, and opportunity costs.

No Single Point of Control
When there is no single point of control to track where the data comes from, where it moves to, or where it ends up, managing the sprawling web of data sources is hard. This becomes more difficult to manage as the number of data sources and integrations grow.

Disparate Data Sources
Organizations need the ability to unify their fast data pipeline on a single platform to access data services and high value workloads with Day 2 consistency, regardless of cloud provider.
Smarter, Faster, and Cost-Efficient

D2iQ Kommander is a complete and open platform that offers everything you need to deploy and manage an end-to-end fast data pipeline from anywhere.

Rather than having to piece a solution together, D2iQ does the difficult work for you by selecting all of the key data services, testing them, and integrating them with Kommander for quick and easy deployment into Kubernetes clusters.

Kommander’s purpose-built automation replaces manual operational effort with operators to eliminate human error, increase efficiency, and ensure the lifecycle management of key data services.

Leveraging a federated management plane, Kommander unifies disparate data sources and workloads from a single, central point of control. This simplified bird’s eye view provides instant visualization into the cluster landscape to help organizations better understand where their data comes from, where it moves to, and where it ends up, so they can manage their fast data pipelines with consistency and reliability.

Kommander was designed to be infrastructure agnostic, meaning that software developed on one type of infrastructure will work the same wherever it is run. The ability to run Kubernetes on many different infrastructures makes it easier to bring compute resources closer to the data, thus minimizing the cost of transporting data. It also allows the use of existing on-premise infrastructure in place of public cloud resources, reducing overall costs without vendor lock-in.

Outcomes

Fast data pipelines on Kubernetes with D2iQ helps government agencies and business IT teams create unparalleled successful outcomes.

Lower Costs

Open-source Kubernetes provides an alternative to proprietary software so organizations can work with the lowest cost provider.

Faster Deployment

Quickly and easily deploy complex data services from Kommander to specific or multiple clusters, with governance.

Extensive Visibility

Provide centralized visibility and operational efficiency into the Kubernetes landscape from a single, centralized point of control.

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