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Solution Review Abstract: Confluent

Peacock Michael

Staff Solutions Engineer

Confluent

The Army has a strong desire to become a data-centric agency. This is a clear strategy that is described by all levels within the chain of command. The awareness of the importance of data and its role as a strategic asset is a critical driver of the overall roadmap across the Army Enterprise. Within that roadmap is the requirement that mission-critical data be interoperable and accessible for all strategic and tactical programs, including disrupted, disconnected, intermittent and low-bandwidth (DDIL), tactical edge, and enterprise cloud environments. An emerging approach to becoming data-centric is to treat data as a first-class citizen within an enterprise and migrate to a data mesh strategy.

A properly implemented data mesh can bring rigor to the Army's data practices, introducing the means to access and use important data across the Army Enterprise. It enables scalability of the data architecture both technologically and organizationally, eliminating ad hoc point-to-point connections in data pipelines. A data mesh brings selected mission data to the forefront, exposing it as a first-class citizen for systems and processes to react on directly.

The "Edge" is an ambiguous term used to describe a variety of deployments not at the center of a data enterprise. It could be a small IoT device, or a full-fledged mobile data center deployed strategically. Getting data from that edge to the centralized location supports critical mission requirements. Through a data in motion approach, organizations can tap into data streams that are continually evolving and flowing from a growing network of edge devices and systems. This session will describe how Confluent uses the various tools to support the edge and hybrid solutions.