MeriTalk
Improving the Outcomes of Government IT

Red Hat

Army Data for Mission Applications

Making Data Visible, Accessible, Understandable, Trusted, Interoperable and Secure

Migrating data and applications to the cloud is making information more accessible and portable, and the Army's new Enterprise Cloud Management Office (ECMO) will build out cloud architecture over the next five years to help the Army develop stronger data inventory and software capabilities[1]. These efforts will support better, faster mission decisions. As Lt. Gen. Bruce Crawford said, data is the ammunition of the future fight[2].

A hybrid cloud infrastructure, as-a-service technology deployment, and modern application development and operations will reduce legacy system technical debt, break down information silos, and meet the ultimate objective of turning data into a global strategic asset.

The volume of data managed, stored, secured, and analyzed is growing exponentially today as a result of IoT endpoints and the proliferation of artificial intelligence (AI) and machine learning (ML) applications. As data volume continues to grow, field teams need data management strategies and applications to process raw data closer to the source. The goal is to close the timeframe between data analysis and decision execution.

Red Hat® offers several essential solutions to support these efforts, including the Red Hat OpenShift® Container Platform and Red Hat Integration (alongside requisite process evolution). These tools enable

The Enterprise Open Source Advantage

- Balance innovation and reliability
- Improve data/application portability
- Reduce development risk
- Future-proof investments; eliminate cloud provider lock-in

[1] https://www.meritalk.com/articles/army-officials-stress-importance-of-cloud-800m-investment-plan/
[2] https://www.c4isrnet.com/it-networks/2020/02/10/multidomain-operations-are-driving-the-army-to-the-cloud/

mission partners to deliver applications that integrate with the current environment, achieve data portability across the environment, and enable essential new capabilities, including the ability to manage increasingly distributed workloads. For the warfighter, this means actionable intelligence, where and when it is needed.

Connect Data and Applications Across Hybrid Infrastructures

Red Hat's OpenShift Development Platform helps mission partners take advantage of an Open Source container architecture and DevSecOps development model. Teams use containers to build efficient, independently deployable, microservices-based applications that speed application deployment and time to mission value. Designed to accelerate deployment timelines, the container approach creates applications that function much like a Brigade Combat Team (BCT) – highly specialized to fit mission needs, and easily deployed and updated.

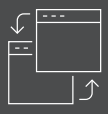
Developers stay focused on innovating within their problem space, while automated compliance testing ensures code meets function and security requirements. In turn, mission partners deliver value by rapidly deploying reliable applications.

In addition, centralized configuration management gives partners the ability to track all changes and put feedback loops in place to understand if functionality is delivering mission value. These feedback loops are critical to operationalizing the Army's "mission first" culture that measures technology value against mission impact.

Red Hat® Integration is a comprehensive set of integration and messaging technologies that include service composition and orchestration, application connectivity and data transformation, real-time message streaming, change data capture, and API management, combined with a cloud-native platform and toolchain. When wielded on a cloud-native platform, these technologies support the creation of a "data fabric" that ensures data access in disconnected, intermittent, and high-latency environments for applications that need data as fast as the network can carry it.

Red Hat Integration Benefits

Create, deploy, monitor, and control APIs throughout their lifecycle
Extend integrations across hybrid and multi-cloud environments



Deploy real-time messaging, change data capture, and data streaming
Share data between applications in real-time with high throughput/low latency

Deploy enterprise integration patterns (EIPs) using 200+ pluggable connectors
Connect new and existing data across hybrid cloud

A common management framework simplifies administration, upgrades, updates, and governance, which is particularly important for solutions intended for edge environments with limited technical resources in the field.

Building a Culture of Innovation

Alongside a modern development and integration platform, modernizing data management requires new ways of working and new approaches to solving problems. Red Hat's Innovation Labs offers an intensive, highly focused residency for three to six developers to learn how to build and run container-based applications.

Stay competitive. Contact Red Hat to discuss modernizing development and operations to deliver integrated, scalable data management solutions that transform data into a strategic asset – and a mission advantage.

Learn More

Learn more about the OpenShift Development Platform: https://www.openshift.com/
Learn more about Red Hat Integration: https://www.redhat.com/en/products/integration
Take advantage of the Innovation Labs: https://www.redhat.com/en/services/consulting/open-innovation-labs