

# AI-POWERED DATA OPERATIONS FOR HPE EZMERAL CONTAINER PLATFORM WITH UNRAVEL

Operationalize your data applications to accelerate your digital transformation initiatives

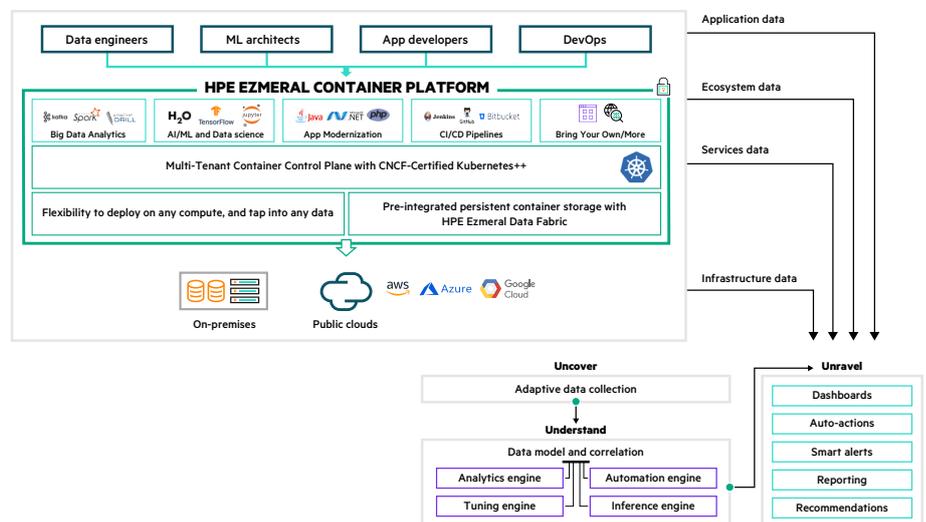


Data-driven insights generated from artificial intelligence/machine learning (AI/ML) and analytics applications such as Apache Spark, Apache Hive, and Apache Kafka are a critical component of business processes today. However, it can be extremely challenging to deploy and manage these applications in production. Application development and data operations teams spend a significant amount of time resolving frequent slowdowns and unpredictable performance that take time away from higher-value initiatives.

HPE Ezmeral Container Platform is an enterprise-ready container platform that supports a wide variety of AI/ML and data analytics applications to bring speed and agility to enterprise software development and data analytics teams.

Unravel is a full-stack cross-platform software solution that optimizes the performance of data applications running on the HPE Ezmeral Container Platform. With a real-time view of the applications running on the HPE Ezmeral Container Platform, Unravel can quickly report on performance and stability issues with Spark, Hive, Kafka, data pipelines, and more. Unravel provides both contextualized recommendations and autonomous actions to fix the problems as they arise.

The combination of the HPE Ezmeral Container Platform and Unravel provides high performance and predictable operations to meet the stringent enterprise requirements for data applications. Unravel addresses the growing need to autonomously troubleshoot and tune modern Big Data applications using AI and ML.



**FIGURE 1.** Unravel with HPE Ezmeral Container Platform

## Solution brief

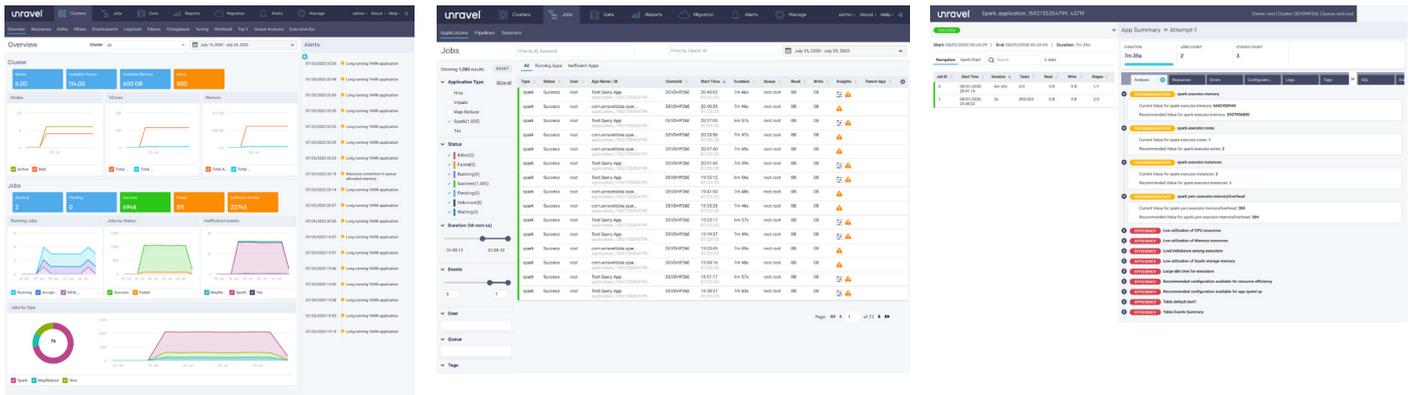


FIGURE 2. Insights and analytics with Unravel on HPE Ezmeral Container Platform

## WITH UNRAVEL ON HPE EZMERAL CONTAINER PLATFORM

**Automated operations:** The HPE Ezmeral Container Platform's app store enables self-service, one-click deployment of applications from a curated collection of validated and certified application and microservice images, with out-of-the-box configuration of networking, load balancing, and storage.

**Hybrid deployments:** A performance-optimized solution to deploy and manage applications on any infrastructure, either on-premises or in multiple public clouds.

**Enterprise-ready:** A solution built upon a proven enterprise-class multi-tenant container platform, with 100% open-source Kubernetes with integrations into security and authentication services, HPE Ezmeral Container Platform supports high availability, fault tolerance, and resiliency for business-critical enterprise applications.

**Improved performance:** Get to the root-cause analysis quicker with data-driven application performance insights, detailed reporting, and alerts that help you meet guaranteed service-level agreements (SLAs).

**Accelerate data operations:** Help eliminate discord between development and operations teams with real-time intelligence and autonomous tuning of your data pipelines.

**Drastically reduce troubleshooting and tuning time:** Unified monitoring and management platform for all Spark ecosystem components, apps, and infrastructure.

## BENEFITS

**Hybrid experience:** A unified control plane to monitor and help optimize applications on-premises, in any public cloud, and at the edge.

**Boost productivity:** Deliver a self-service experience for development teams and reduce mean time to resolve (MTTR) with real-time insights and verifiable, data-driven reporting.

**Improve ROI:** Improved utilization and reduced admin overhead for data analytics and AI/ML applications increases return on hardware investment.

**Reduce TCO:** Decrease costs through optimized resource consumption in terms of CPU/virtual cores, memory, and storage.

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a50002544ENW, August 2020