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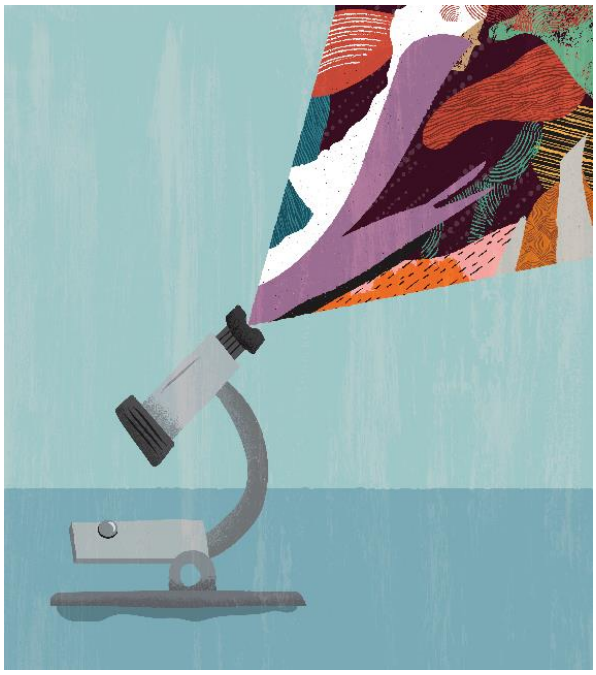
Oracle Cloud manages COVID-19 vaccination program



In July 2020, the U.S. government launched an ambitious project to accelerate the development and distribution of COVID-19 vaccines, therapeutics, and diagnostic testing. At the same time, the President entrusted this critical mission to the Department of Defense (DoD) – the most ambitious public-private logistics partnership ever attempted within the United States. Working with Oracle, leveraging Oracle Cloud Infrastructure, DoD delivered an end-to-end distribution and administration platform that continues to provide supply visibility and complete vaccine traceability in support of the largest vaccine distribution event in U.S. history.

The scalability of Oracle Cloud made it possible to integrate manufacturing, distribution, and administration data quickly and efficiently. Leveraging the full suite of Oracle's Cloud platform including Exadata Cloud Service, to support the initiative DoD achieved a rapid, real-time exchange of data by integrating more than 100 public and private systems. It provided a new level of visibility for healthcare workers into immunization delivery and without compromising security and privacy.

Supporting large-scale vaccination data and distribution

Once COVID-19 vaccine distribution began, it became imperative to manage a complex logistical process quickly and efficiently; lives depended on it. Under the guidance of DoD leadership, Oracle's Public Health Management System's new Provider Order Portal was built for the U.S. government, enabling authorized federal suppliers to order vaccines and allow providers to manage inventory and fulfill orders based on availability. Providers can now manage deliveries and help ensure each shipment meets the unique environmental requirements to specific vaccines, such as different temperatures for cold storage. The system also tracks returns and redistribution to help minimize wastage and manage the end-to-end supply chain tracking.

Oracle Integration

Integrating more than 100 data streams in less than three months was only possible through the application of Oracle's Cloud technology. Tasks such as de-identification, identity and access management, encryption, scaling, integrating legacy systems, and a new COVID-19 application

typically takes months to create custom code. It was accomplished and operational within 90 days from project start.

Oracle Cloud Low Code/No Code

DoD and the U.S. Centers for Disease Control and Prevention (CDC) wanted to provide the American people a method to voluntarily report post-vaccine experiences. Using the Oracle APEX low-code development tool, Oracle Analytics, and Oracle Cloud Infrastructure, Oracle developers partnered with the defense and CDC officials to create an application ecosystem enabling Americans to report side effects voluntarily, such as pain or nausea, for the first days, weeks, and months after injection.

Success with Oracle Cloud

DoD's success with this mission is undeniable. Relying on Oracle's Gen2 Cloud technology enabled DoD leadership to meet all requirements before successfully transitioning operations to the CDC.

To learn more about Oracle's response to COVID-19, visit **Oracle.com/COVID**

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