Research from Sumo Logic Highlights the Acceleration of Digital Transformation, Modern Applications, and Architectures During COVID-19 Global Pandemic

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5th Annual Continuous Intelligence Report Reveals Increase in Multi-Cloud Adoption, Heightened Requirements of Cloud Architectures, Security and More, Underscoring the Need for Real-time Analytics to Drive World-class Customer Experiences


“This year was unlike any other that we have witnessed with a significant shift in organizations’ technology priorities, in part as a result of the COVID-19 pandemic,” said Bruno Kurtic, founding VP of strategy and solutions at Sumo Logic. “This continued acceleration to digital further fueled key trends including multi-cloud adoption, an expanding threat landscape, and the need for improved collaboration across DevSecOps, as companies quickly made changes to adapt to new business demands. The need for continuous intelligence is even more critical as digital businesses require real-time analytics in order to deliver high performance, highly scalable, always-on digital services to speed decision making and drive the best customer experiences.”

“The Continuous Intelligence Report: The State of Modern applications, DevSecOps and the Impact of COVID-19” now it its 5th year, provides data-driven insights, best practices and trends by analyzing technology adoption among more than 2,100 Sumo Logic customers who run massive mission-critical modern applications on cloud platforms like AWS, Azure, and Google Cloud Platform as well as hybrid cloud infrastructure. Key findings from the report include:

Multi-cloud adoption accelerates during COVID-19 pandemic
Amidst the COVID-19 pandemic, the adoption of modern cloud services has surged. As businesses faced upheaval, many have turned to these platforms to support new and changing ways of doing business.

- Multi-cloud adoption grew by 70% year over year, outpacing previous 12 months that saw 50% growth.
- Enterprises are increasingly turning to modern cloud platforms such as Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP), to deliver high quality and secure applications to their customers.

Modern cloud architectures become a reality
As more enterprises become dependent on the cloud, they’re shifting to a more “modern architecture.” This transition focuses on an application stack that consists of new tiers, technologies, and microservices.

- The typical AWS application has as many as 26 services (up from 15 last year) and is deployed across two or more regions and two or more accounts.
- Over 40 percent of Sumo Logic’s AWS customers are using container orchestration.
- Kubernetes is fast becoming the default app platform, with over 85% of businesses choosing Kubernetes to build and operate applications across multiple clouds.
- Additionally, serverless architecture is continuing to grow, and AWS Lambda adoption is now at 37 percent.

Security landscape dramatically shifts during COVID-19 pandemic
The security threat landscape has changed since the start of the COVID-19 pandemic, requiring a more rigorous and adaptive security processes and solutions. Securing cloud workloads requires adoption of both cloud-native security technologies and consuming available cloud data sources.

- AWS customers adopted CloudTrail (60 percent), VPC Flow Logs (34 percent), and GuardDuty (22 percent) to meet this need. Additionally, the patterns of attack have changed throughout the course of the pandemic. The largest jump in attack origin came from Russia and India.
- Based on Sumo Logic’s Global Intelligence for AWS, AWS regional centers in the U.S. and E.U. are top targets for attackers.

The WFH era reinforces the need for DevSecOps to break the silos
The continued expectations for DevOps to improve the release and updates of apps and services has challenged siloed teams - given their remote working situations. It’s important that distributed development teams leverage analytics and insights to optimize the entire end-to-end software development and delivery process and improve the continuous intelligence of their organizations.

As the modern application stack continues to be reshaped by multi-cloud, open source technologies, and factors from extenuating circumstances like COVID-19, companies need a strategy to address this growing complexity. The answer lies in continuous intelligence, a new category of software that leverages real-time analytics and insights from a single, cloud-native platform across multiple use cases to speed decision-making, and drive world-class customer experiences. Sumo Logic’s Continuous Intelligence Platform™ provides this as a cloud-native delivered as a service.
Report Methodology

"The Continuous Intelligence Report: The State of Modern applications, DevSecOps and the Impact of COVID-19" is developed using data from more than 2,100 Sumo Logic customers running applications across all major cloud platforms and on-premise environments. All individual customer data is anonymized. Customers use Sumo Logic to manage production applications and underlying infrastructure. Hence, this report provides a snapshot of the production application state. Given the large sample size of enterprises, the data in this report is a reflection of the overall industry trends. This report assumes that an application or infrastructure is used in production if it appears as a source of data or is queried/analyzed by a paying customer.

Additional Resources

- [Read](#) our blog for the key trends impacting the modern application technology stack
- [Sign up](#) for a free trial of Sumo Logic

About Sumo Logic

Sumo Logic Inc. (Nasdaq: SUMO) is the pioneer in continuous intelligence, a new category of software, which enables organizations of all sizes to address the data challenges and opportunities presented by digital transformation, modern applications, and cloud computing. The Sumo Logic Continuous Intelligence Platform™ automates the collection, ingestion, and analysis of application, infrastructure, security, and IoT data to derive actionable insights within seconds. More than 2,100 customers around the world rely on Sumo Logic to build, run, and secure their modern applications and cloud infrastructures. Only Sumo Logic delivers its platform as a true, multi-tenant SaaS architecture, across multiple use-cases, enabling businesses to thrive in the Intelligence Economy. For more information, visit [www.sumologic.com](http://www.sumologic.com).

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