

# Analytics in the hybrid cloud

Red Hat and SAS help to increase accessibility and adoption

“Smarter, more responsible, scalable AI will enable better learning algorithms, interpretable systems and shorter time to value. Organizations will begin to require a lot more from AI systems, and they’ll need to figure out how to scale the technologies—something that up to this point has been challenging”<sup>1</sup>

## Introduction

With continued investments in data, analytics, and artificial intelligence (AI), as well as the broader availability of machine-learning tools and applications, organizations have an abundance of analytical assets. However, to obtain value from AI and data science efforts, users need to deploy, operationalize, and put their analytical assets into production. After all, becoming insights-driven is a key factor in digital transformation. It’s putting those insights into action—the “last mile” of analytics—that remains a challenge for many organizations.

## Making data analytics available anywhere, anytime

SAS® Viya® is a cloud-native AI, analytic, and data management platform from Red Hat that runs on a modern, scalable architecture on popular public cloud platforms. When delivered on Red Hat® OpenShift®, the industry’s most comprehensive enterprise Kubernetes platform from Red Hat, SAS Viya supports analytics anywhere: on premises, and in hybrid, public, and private cloud environments.

As model development has become democratized through access to open source software and automated machine-learning (ML) capabilities, deployment and governance remain the final hurdles. With SAS Viya on Red Hat OpenShift model developers are able to build and deploy models with portability and consistency across any environment of their choosing. This helps accelerate the adoption of analytics across the hybrid cloud. Regardless of where they are in their cloud journey, with Red Hat and SAS, users can build and scale analytics on a stable infrastructure and operationalize analytics to get models into production quickly.

## A seamless journey to the cloud

Red Hat and SAS help drive analytics to the cloud. For organizations that are modernizing to run on-premises, in multicloud, and in hybrid cloud environments, the combination of SAS Viya on Red Hat OpenShift provides these benefits:

- ▶ **Accelerated business innovation:** By combining the security-focused, consistent container foundation in Red Hat OpenShift with the cloud-native, SAS Viya data and analytics platform, organizations can operationalize analytics to make insights-driven decisions.
- ▶ **Modernization without compromise:** Organizations are under pressure to modernize their data operations and infrastructure to stay agile and competitive, make quicker decisions, and get to market faster. SAS Viya on Red Hat OpenShift provides a path to the cloud while improving automation, reducing mundane tasks, and speeding time to value.
- ▶ **Flexible deployment options:** Customers want to have choices about where they can deploy cloud-native applications. SAS Viya on Red Hat OpenShift provides a scalable cloud-agnostic analytics platform in a managed Kubernetes environment that can run on premises, on any cloud, or in a hybrid cloud environment, allowing centralized management and faster access to data and insights.

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<sup>1</sup> Gartner. “Gartner Top 10 Data and Analytics Trends for 2021,” February 22, 2021.

“By moving to the Kubernetes ecosystem, SAS Viya can take advantage of numerous tools and plug-ins that add administrative functionality (e.g., logging, monitoring, security, etc.) outside of core SAS technology.

Furthermore, Kubernetes support enables SAS Viya customers to integrate with other commodity cloud offerings like security, identity, and compliance; databases; development and integration tools; storage; container management and orchestration; management consoles so they can leverage the core services that they may be already using.”

— TONY BAER

*SAS® Viya® and the cloud: How SAS is changing the game it invented, A dbInsight white paper for SAS, 2020.*



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## About Red Hat OpenShift

Red Hat OpenShift is a leading enterprise Kubernetes platform that helps organizations develop, deploy, and manage existing and container-based apps seamlessly across physical, virtual, and public cloud infrastructures. With Red Hat OpenShift:

- ▶ Businesses can use a proven platform that powers enterprises today, while enabling the creation of a cloud strategy for the future.
- ▶ IT Operators, data scientists, and software developers can collaborate to ensure analytics can be used in real time for the development of intelligent applications.
- ▶ Data scientists are empowered with familiar tools to quickly build and scale analytics and ML models, consistently across the hybrid cloud.

## About SAS Viya

SAS Viya includes a full set of end-to-end capabilities to unify disparate technologies, people with varied skill sets, and DataOps and ModelOps processes to drive confident, repeatable, and transparent decisions in real time. With SAS Viya, organizations can:

- ▶ Automatically deploy models into production.
- ▶ Monitor and govern model performance.
- ▶ Run on-premises, in hybrid environments, or with the cloud provider of their choice.

## Conclusion

The collaboration between SAS and Red Hat combines market-leading analytics with the industry’s most comprehensive enterprise Kubernetes platform. SAS Viya provides a modern, flexible, cloud-based architecture that supports agile development and deployment of both SAS and open source AI and machine learning models in a single, governed platform. Optimizing the cloud-native design of SAS Viya on Red Hat OpenShift gives customers options across hybrid cloud environments, increasing accessibility and helping to accelerate customer adoption of analytics.

## Learn more

For more information about Red Hat OpenShift, visit <https://www.openshift.com>

For more information about SAS Viya, visit <https://www.sas.com/viya>

## About SAS

SAS is the leader in analytics. Through innovative software and services, SAS empowers and inspires customers around the world to transform data into intelligence. SAS gives you THE POWER TO KNOW®.

## About Red Hat

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux®, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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