Empower Developer Productivity with SUSE Cloud Application Platform and Microsoft Azure Kubernetes Service

Creating new applications quickly is a business imperative. Rapid development used to mean tricky testing and questionable stability. However, with a DevOps model, that does not have to be the case. You can enable DevOps and give your developers the tools they need with an application delivery platform from SUSE and Microsoft.

SUSE Cloud Application Platform with Azure Kubernetes Service at a Glance:
+ *Enhanced development predictability*
+ *Improved developer flexibility*
+ *Increased operational efficiency*
+ *Reduced risk through open standards*

■ Products:

+ *SUSE Cloud Application Platform*
+ *Microsoft Azure Kubernetes Service*
+ *Microsoft Azure*

The Challenges of App Development

Today's development teams need to create new applications faster than ever. That means they can't afford to wait on IT to provision resources. And if their development environment doesn't match the production environment, they are slowed down even more.

At the same time, operations teams must prioritize stability. They have to focus on maintaining compliance and ensuring reliability for the organization as a whole. Anything new or unfamiliar can threaten this stability and often requires help from the development team to implement.

An Application Delivery Platform Built for DevOps

There is a way to join these two groups together. A DevOps approach melds the two teams into a single unit that uses containerized apps and microservices, and a standardized process and configuration. You can easily implement a DevOps approach with an application delivery solution from SUSE and Microsoft.

SUSE Cloud Application Platform with Azure Kubernetes Service (AKS), running on the Azure Cloud, can help you accelerate innovation, minimize risk and increase return on investment. Together, SUSE Cloud Application Platform with AKS gives you an end-to-end development workflow with multiple benefits.

■ *Better Predictability: The solution relies on predictable Cloud Foundry workflows. Developers can move from one project to the next without having to relearn systems. Plus, an application that works on a developer's machine will work the same in testing and in production—no re-platforming or modification is needed.*

■ *Greater Developer Flexibility:*
Developers can work with multiple languages, protocols and runtimes. The Open Services Broker API enables developers to use external Azure services as needed. The platform can also scale to support any-size application effort.

■ *Increased Efficiency: Traditional workflows involve installing servers, operating systems middleware and more, just to launch a new app in a test or production environment. With SUSE Cloud Application Platform, a single command deploys the app and all its dependencies at the same time. Provisioning and configuration are automated. Developers can also request and receive resources themselves, reducing the need for IT intervention.*

■ *Reduced Risk: Cloud Foundry and Kubernetes are both leading open source projects. This joint SUSE-Microsoft offering takes advantage of the thriving ecosystems of contributors, technologies and skills to preserve your choice and provide a safe, cost-effective solution.*

This joint solution is ideal for creating new, cloud-native applications, and it can also be used as a way to containerize, update and move your legacy applications to the cloud.

Components
With the SUSE-Microsoft solution, your containerized applications run on SUSE Cloud Application Platform, which runs on Azure Kubernetes Service. Microsoft Azure cloud is the foundation for the entire
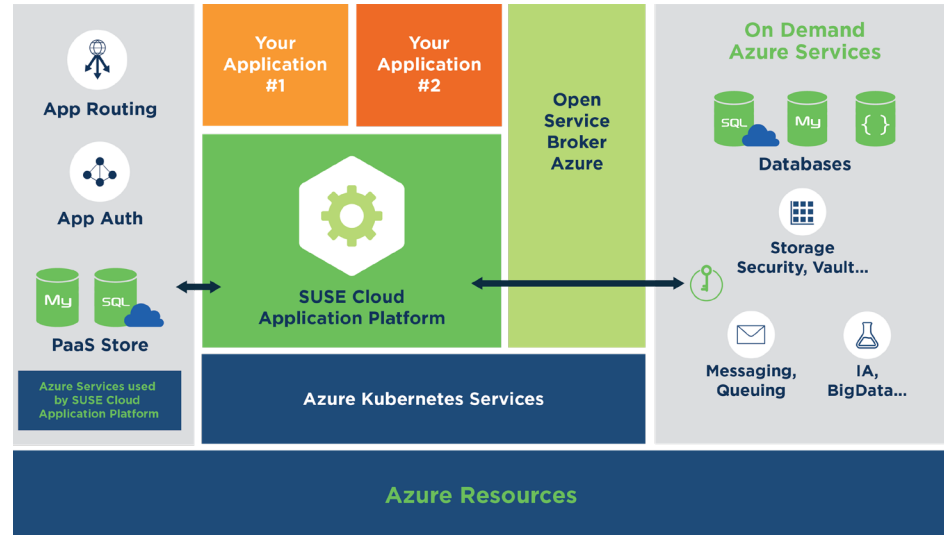

Figure 1. *SUSE Cloud Application Platform + AKS*

solution, which means you can take advantage of on-demand Azure services.

■ *SUSE Cloud Application Platform:*
A Platform as a Service (PaaS) technology offering based upon Open Standards. It provides a modern application delivery platform that brings an advanced cloud-native developer experience to Kubernetes. SUSE Cloud Application Platform itself runs in containers, not virtual machines, so it consumes a fraction of the memory footprint of other distributions, while also being faster to recover and scale.

■ *Azure Kubernetes Service: A managed solution for Kubernetes that helps you minimize your administration with*

automated upgrades and patching. Microsoft also manages your master virtual machines in the Kubernetes cluster. Azure Kubernetes Service enables you to scale easily, provides self-healing and promotes rapid growth.

■ *Microsoft Azure: A hyperscale cloud with more than 70 compliance offerings, the largest portfolio in the industry. You can take advantage of more than 100 services to power your applications.*

Write Tomorrow's Code
SUSE and Microsoft have been working together for over a decade and have more than 1,000 shared customers. Our solutions tap the power of communities to bring you innovation and performance. And they have stood the test of the enterprise, with security backed by decades of experience.

We know enterprise requirements and understand what it takes to make secure and highly available enterprise solutions. That's why we work to empower developers so they can create the applications that will power your organization today and tomorrow.

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Contact us at:
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