Solution Flyer

Application Delivery

Simplify App Delivery with SUSE® Cloud Application Platform with Google Kubernetes Engine

Enterprises today are searching for new ways to stay agile and roll out new applications and services more efficiently. One of those ways is DevOps, a model that enables developers to create apps at a competitive rate without having to wait for IT. DevOps also makes it easy for IT to integrate those applications with little effort or management overhead. SUSE Cloud Application Platform with Google Kubernetes Engine now offers a flexible, cloud-based platform that enables this model and helps teams to build apps faster and deploy them seamlessly.

SUSE Cloud Application Platform with Google Kubernetes Engine at a Glance:

- Combine the expertise of Kubernetes' creator and the largest independent open source software company.
- Protect your investment and lower risks by using 100 percent open-standard technologies.
- Maximize application portability; develop across on-premises and cloud environments seamlessly.
- Give developers the option to choose the best language and framework for any task.

- **Products**

+ *SUSE Cloud Application Platform*
+ *Google Kubernetes Engine.*

DevOps Resolves App Development Roadblocks

Staying agile requires an organization's development teams to create new applications quickly and efficiently—which means they can't afford to wait on IT to provision resources. They also need a system that enables apps to run in any environment, to avoid rollout delays.

On the other hand, IT operations teams must prioritize server protection and operational compliance while minimizing downtime as much as possible. They want fast, seamless deployment of applications and a simple way to update those apps.

DevOps helps to solve both development and operational challenges by using:

- Containerized apps and microservices
- Standardized processes and configuration
- Industry-standard hardware
- Cross-discipline teams focused on providing services

SUSE and Google Make App Development and Delivery Easy

Whether you want to implement a comprehensive DevOps model, simply give development teams better tools to work with or automate application delivery and workload management across on-premises or cloud environments, SUSE Cloud Application Platform (SUSE-CAP) with Google Kubernetes Engine can help. The combined solution enables you to speed up innovation, minimize risk and increase return on investment. The combined

Because SUSE Cloud Application Platform itself runs in containers, it consumes a fraction of the memory footprint of other Cloud Foundry distributions.

solution gives you an end-to-end development workflow with multiple benefits.

THE POWER OF CHOICE

Together, SUSE and Google provide choices to organizations seeking to leverage the developer productivity benefits of Cloud Foundry and the flexibility of Kubernetes. Launched in 2015, Google Kubernetes Engine builds on Google's experience running services such as Gmail and YouTube in containers for over 12 years. Built on a certified distribution of Cloud Foundry, SUSE-CAP runs inside of Kubernetes.

MAXIMUM APPLICATION PORTABILITY

The combined solution enables you to power hybrid development models and maximize application portability. Google Kubernetes Engine runs Certified Kubernetes, which ensures application portability. You can take applications and run them anywhere that supports Kubernetes—across clouds and even on your own on-premises servers. The SUSE-CAP console enables you to view multiple development environments seamlessly, making on-premises and cloud Kubernetes instances appear as one— further easing portability.

CONTAINERS FOR EASY MANAGEMENT

Unlike many Cloud Foundry distributions, SUSE-CAP itself is containerized. This means you can manage it with Google Kubernetes Engine—making it easy to install and helping to ensure that the environment remains available, automatically recovers, scales without downtime and manages loads based on your established criteria. Because SUSE-CAP is containerized, it drastically reduces the infrastructure required for deployment, which, in turn, cuts costs.

OPEN SOURCE ECOSYSTEM

SUSE-CAP and Google Kubernetes Engine deliver the value and benefits of open standards and a thriving ecosystem of contributors. This helps to control risk and avoid vendor lock-in, while allowing you to take advantage of technologies and skills that your developers and IT personnel already know and use. You can tailor any number of integrations, including monitoring, logging, and continuous integration and continuous deployment (CI/CD) functions using Google Cloud Platform and third-party solutions of your choice. And, if you already have Kubernetes skills available within your organization, you can use them to manage SUSE Cloud Application Platform.

A Closer Look at the Components

SUSE-CAP

The platform-as-a-service (PaaS) technology offering is a modern, open source application delivery platform that brings an advanced cloud-native developer experience to Kubernetes. Because SUSE-CAP itself runs in containers rather than virtual machines, it consumes a fraction of the memory footprint of other distributions, while being faster to recover and scale. Bringing together industry-leading Kubernetes and Cloud Foundry technologies, the platform facilitates DevOps process integration to accelerate innovation, improve IT responsiveness and maximize return on investment.

SUSE-CAP can:

- Boost developer productivity with one-step deployment and support for any programming language or framework
- Reduce complexity and improve IT efficiency with fault-tolerant and self-healing capabilities
- Maximize return on investment by avoiding vendor lock-in and leveraging existing IT investments to control costs

GOOGLE KUBERNETES ENGINE

A Google Kubernetes Engine is a managed, production-ready environment that enables the deployment of containerized applications. It accelerates time to market by improving automated operations, developer productivity and resource optimization—all coupled with the flexibility of open source technology.

- The engine's rapid application development and iteration capabilities make it easy to deploy, update and

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manage applications and services.

- An autoscaling feature handles increased user demand for services.
- The built-in dashboard runs routine health checks to detect and replace hung or crashed applications within deployments.
- Google Site Reliability Engineers constantly monitor your clusters and their compute, networking and storage resources, so you can stay focused on your applications instead

Agility for Today and Tomorrow

Together, SUSE and Google can help you increase business agility and application delivery efficiency to meet the evolving demands of your customers. As leaders in our fields, we have the expertise, resources and stability to provide the application development and delivery tools you'll need to stay successful now and in the future.