Google Cloud Reaches On Premises

Written by Marco Attard
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Google looks to hybrid cloud deployments as the beta version of the Cloud Services Platform (CSP) allows organisations to run Google cloud workloads on own hardware infrastructure, with a single unified approach to managing applications on multiple environments.

CSP is a Kubernetes-based platform bringing the Google Kubernetes Engine (GKE) on-premises for organisations running container workloads. Built on open APIs, CSP promises a more compliant approach to the hybrid competition, allowing customers to modernise applications at their own pace. It includes GKE On-Prem, a managed Kubernetes services providing remote lifecycle management to on-premises clusters, keeping them updated and secure.

Another feature is CSP Config Management, a means to create multi-cluster policies out of the box able to set and enforce role-based access controls, resource quotas and create namespaces. Users can rapidly deploy configurations across all clusters (both on-premises and in the cloud), and CSP Config Management automatically monitors the CSP environment for changes from desired state, blocking unapproved changes and alerting in case of unexpected variations.

The service uses Istio, the service mesh allowing for easier secure and control of traffic and APIs between applications, and integrates with the Stackdriver Monitoring service and continuous delivery platforms. GCP Marketplace provides a range of enterprise-ready, open-source and commercial Kubernetes applications, complete with prebuilt templates, simple licensing and consolidated billing.

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As mentioned earlier, CSP is currently in beta form.

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