1- Should we move to GKE? Why? (-Zhihao Chen)

**Answer:**

Customers should move to Google Kubernetes Engine and activate ISTIO. Google Kubernetes Engine is a management system and can be orchestrated. The main problems faced by customers are related to scale. According to Rob and Maciek (2020), they introduced several important features of Google Kubernetes Engine,"clusters with up to 15,000 nodes", and "If you're running large, internet-scale services; If you need to simplify infrastructure management by having fewer clusters to manage; Batch processing — shortening the time needed to process data by temporarily using much more resources". These features mean that Google Kubernetes Engine can help companies solve the problem of scale and improve the company's efficiency by reducing the number of clusters managed and increasing the speed of data processing. In addition, Google Kubernetes Engine can help maintainers and developers to automatically maintain and repair nodes, which is very convenient and highly secure. In addition to using Google Kubernetes Engin, customers also need to activate Istio. According to Istio (n.d.),"Istio's powerful features provide a uniform and more efficient way to secure, connect, and monitor services. "This means that combining Google Kubernetes Engine and Istio can improve scalability and monitor and maintain products more efficiently Quality and improve user experience.

**Reference:**

Rob Long & Maciek Różacki (2020, June 23. *Bayer Crop Science seeds the future with 15000-node GKE clusters.*Google Cloud. Retrieved from[*https://cloud.google.com/blog/products/containers-kubernetes/google-kubernetes-engine-clusters-can-have-up-to-15000-nodes*](https://cloud.google.com/blog/products/containers-kubernetes/google-kubernetes-engine-clusters-can-have-up-to-15000-nodes)

Istio （n.d.）. *The Istio service mesh* T. Istio. Retrieved from <https://istio.io/latest/about/service-mesh/>