

## Week 5

① Topics to be covered → Containers in Cloud, Kubernetes Engine.

② Containers

→ IaaS is manageable with virtual machine & your OS and tools though it takes time to configure & load.

→ But when your application scales up you move to PaaS so infrastructure is automated.

Containers give you both a layer for hardware, etc like PaaS, & auto scaling & other services like PaaS.

③ Tools used to control containers in Google cloud is

→ Open source tool → Docker, nginx → for pod (scheduling). Kubernetes.  
Blask & Python code example used.

④ Kubernetes (unit → pod).

→ Open source tool, offers api to control its operations through several utilities. [eg:- of utility kubectl command]  
(many eg's shown)

Cluster → Set of node that control containers.

↳ a computing instance

i.e Virtual machines in Google Compute Engine.

Kubernetes Engine → Google offering of Kubernetes as a managed service in the cloud.  
(GKE)

→ Load balancing offered in GKE.

⑤ → Anthos is mention. → Google's modern solution for hybrid and multi cloud systems. & management.

⑥ → Similarities to AWS.

Amazon Elastic Container Service & Amazon Elastic Kubernetes Service.

Pod → Task

gcloud/kubectl → Amazon CLI/Kubectl.

⑦ Lab.

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End of week 5.