Quiz:

1True or **false**: each container has its own instance of an operating system.

2Containers are loosely coupled to their environments. What does that mean? Choose all the statements that are true. (3 correct answers)

* Containers abstract away unimportant details of their environments.
* Deploying a containerized application consumes less resources and is less error-prone than deploying an application in virtual machines.
* Containers are easy to move around.

3what is a Kubernetes pod

4what is a Kubernetes cluster

5where do the resources used to build Kubernetes Engine clusters come from? - Compute Engine

6True or false: Google keeps Kubernetes Engine refreshed with successive versions of Kubernetes. That's correct! The Kubernetes Engine team periodically performs automatic upgrades of your cluster master to newer stable versions of Kubernetes, and you can enable automatic node upgrades too.

Quiz:

Identify two reasons for deploying applications using containers:

.consistency across development, testing, production environments

.Simpler to migrate workloads

True: Kubernetes allows you to manage container clusters in multiple cloud providers.

**True** or False: Google Cloud Platform provides a secure, high-speed container image storage service for use with Kubernetes Engine.

Where do your Kubernetes Engine workloads run?



In clusters implemented using App Engine

In clusters built from Compute Engine virtual machines

# Getting started with App Engine

Code:$ git clone <https://github.com/GoogleCloudPlatform/appengine-guestbook-python>

$cd appengine-guestbook-python

$cat app.yaml

$dev\_appserver.py ./app.yaml

Deploy app to Google cloud App engine

$gcloud app deploy ./index.yaml ./app.yaml

* The output of the deploy command: Deployed service [default] to [https://PROJECT\_ID.appspot.com]

$gcloud app logs tail –s default

$gcloud app browse

Quiz 1:

You want to gradually decompose a pre-existing monolithic application, not implemented in GCP, into microservices. Which GCP service should you choose? Apigee

Quiz 2:

You want to support developers who are building services in GCP through API logging and monitoring. Which GCP service should you choose? Cloud Endpoints

Quiz 3:

You want to do business analytics and billing on a customer-facing API. Which GCP service should you choose? Apigee

Quiz 4:

Name 3 advantages of using the App Engine Standard Environment over App Engine Flexible. Choose all that are true (3 correct answers).

* Google provides and maintains runtime binaries
* Billing can drop to zero if your application is idle
* Scaling is finer-grained

Quiz 5:

Name 3 advantages of using the App Engine Flexible Environment over App Engine Standard. Choose all that are true (3 correct answers).

* You can SSH in to your application
* Your application can write to local disk
* You can install third-party binaries

Quiz 6: Which statements are true about App Engine? Choose all that are true (2 correct answers).

* App Engine manages the hardware and networking infrastructure required to run your code.
* It is possible for an App Engine application's daily billing to drop to zero.