

# GCP-430 Getting Started with Google Kubernetes Engine

## (Answers)

No	Questions	Points
1	<p><b>Which of the following best describes the function of containers?</b></p> <p><input checked="" type="checkbox"/> They virtualize the operating system</p> <p><input type="checkbox"/> They virtualize the hardware</p> <p><input type="checkbox"/> They allow you to save and move applications to new hardware</p> <p><input type="checkbox"/> They remove the need for application dependencies</p>	10 pts
2	<p><b>Which of the following are advantages of using containers over virtual machines? (Choose 3)</b></p> <p><input checked="" type="checkbox"/> The application images are smaller and more portable</p> <p><input checked="" type="checkbox"/> They make it easier to develop micro-services</p> <p><input checked="" type="checkbox"/> Development, Staging and Production configurations are identical</p> <p><input type="checkbox"/> They abstract the computer hardware layer</p>	10 pts
3	<p><b>You must use Google Container Registry when orchestrating containers with Kubernetes.</b></p> <p><input type="checkbox"/> True</p> <p><input checked="" type="checkbox"/> False</p>	10 pts
4	<p><b>Multiple containers can use the same underlying operating system image.</b></p> <p><input checked="" type="checkbox"/> True</p> <p><input type="checkbox"/> False</p>	10 pts
5	<p><b>Which kubernetes component is responsible for doing health checks?</b></p> <p><input checked="" type="checkbox"/> Kubelet</p> <p><input type="checkbox"/> Node</p> <p><input type="checkbox"/> Pod</p> <p><input type="checkbox"/> Service</p>	10 pts
6	<p><b>Which kubernetes component can function as a load-balancer for pods in an application?</b></p>	10 pts

	<input checked="" type="radio"/> Service <input type="radio"/> Node <input type="radio"/> Pod <input type="radio"/> Kubelet	
7	<b>What option can you use to identify specific pods within an application?</b> <input checked="" type="radio"/> labels <input type="radio"/> node <input type="radio"/> service <input type="radio"/> app name	10 pts
8	<b>What kubernetes resource can you use to share data between pods?</b> <input checked="" type="radio"/> volume <input type="radio"/> service <input type="radio"/> label <input type="radio"/> node	10 pts
9	<b>What option in a YAML file allows you to designate the number of pods a deployment should have?</b> <input checked="" type="radio"/> ReplicaSet, replicas <input type="radio"/> Deployment, replicas <input type="radio"/> Pod, replicas <input type="radio"/> App, replicas	10 pts
10	<b>Scaling a deployment does NOT trigger a new rollout.</b> <input checked="" type="radio"/> True <input type="radio"/> False	10 pts
11	<b>A Canary deployment of an application will work with a subset of live, unaltered user connections.</b> <input checked="" type="radio"/> True <input type="radio"/> False	10 pts
12	<b>A Blue-Green deployment of an application uses the labels on a service to switch traffic to a new deployment</b> <input checked="" type="radio"/> True <input type="radio"/> False	10 pts
13	<b>Which GCP resource can automatically build new images by detecting changes to application code?</b> <input checked="" type="radio"/> Cloud Build <input type="radio"/> Docker	10 pts

	<input type="radio"/> GitHub <input type="radio"/> Kubernetes Master Node	
14	<b>What open-source CI/CD tool can be used to build a pipeline for updating apps in Kubernetes?</b>  <input checked="" type="radio"/> Spinnaker <input type="radio"/> Jenkins <input type="radio"/> Cloud Build <input type="radio"/> Cloud Functions	10 pts
15	<b>What command can you use to verify that a kubernetes cluster is running from Cloud Shell?</b>  <input checked="" type="radio"/> gcloud container clusters list <input type="radio"/> gcloud kubernetes clusters list <input type="radio"/> gcloud compute clusters list <input type="radio"/> gcloud managed clusters list	10 pts
16	<b>Jenkins is deployed to Kubernetes as an application.</b>  <input checked="" type="radio"/> True <input type="radio"/> False	10 pts