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### QUESTION 1

You have an application on a general-purpose Compute Engine instance that is experiencing excessive disk read throttling on its Zonal SSD Persistent Disk. The application primarily reads large files from disk. The disk size is currently 350 GB. You want to provide the maximum amount of throughput while minimizing costs. What should you do?

- A. Increase the size of the disk to 1 TB.
- B. Increase the allocated CPU to the instance.
- C. Migrate to use a Local SSD on the instance.
- D. Migrate to use a Regional SSD on the instance.

Correct Answer: C

Reference: <https://cloud.google.com/compute/docs/disks/performance>

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### QUESTION 2

You have a simple web application that you're trying to deploy in a secure and inexpensive way. The application is running inside a Docker container on port 8080. Once the application is initially deployed, the developers are going to take

ownership of future deployments.

What is the best option for running the application?

- A. Use an App Engine Standard Environment.
- B. Use an App Engine Flexible Environment.
- C. Use an on-premises Kubernetes cluster.
- D. Use Kubernetes Engine.

Correct Answer: B

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### QUESTION 3

You are migrating a business critical application from your local data center into Google Cloud. As part of your high-availability strategy, you want to ensure that any data used by the application will be immediately available if a zonal failure occurs. What should you do?

- A. Store the application data on a zonal persistent disk. Create a snapshot schedule for the disk. If an outage occurs, create a new disk from the most recent snapshot and attach it to a new VM in another zone.
- B. Store the application data on a zonal persistent disk. If an outage occurs, create an instance in another zone with this disk attached.
- C. Store the application data on a regional persistent disk. Create a snapshot schedule for the disk. If an outage occurs,



create a new disk from the most recent snapshot and attach it to a new VM in another zone.

D. Store the application data on a regional persistent disk. If an outage occurs, create an instance in another zone with this disk attached.

Correct Answer: D

The benefit of regional persistent disks is that in the event of a zonal outage, where your virtual machine (VM) instance might become unavailable, you can usually force attach a regional persistent disk to a VM instance in a secondary zone in the same region.

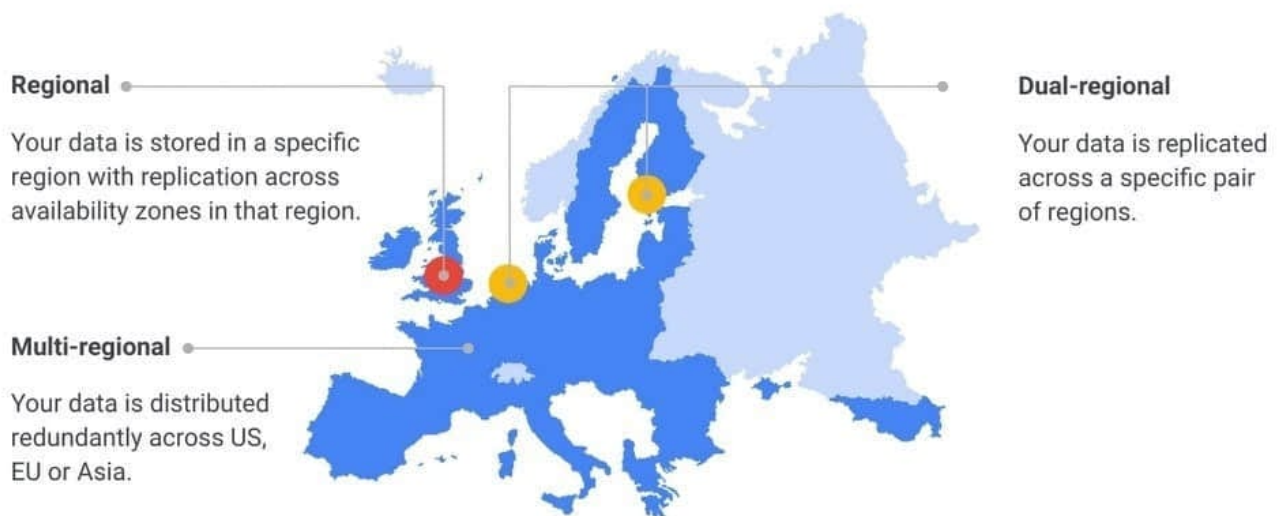
#### QUESTION 4

You are designing an application that lets users upload and share photos. You expect your application to grow really fast and you are targeting a worldwide audience. You want to delete uploaded photos after 30 days. You want to minimize costs while ensuring your application is highly available. Which GCP storage solution should you choose?

- A. Persistent SSD on VM instances.
- B. Cloud Filestore.
- C. Multiregional Cloud Storage bucket.
- D. Cloud Datastore database.

Correct Answer: C

Cloud Storage allows world-wide storage and retrieval of any amount of data at any time. We don't need to set up auto-scaling ourselves. Cloud Storage autoscaling is managed by GCP. Cloud Storage is an object store so it is suitable for storing photos. Cloud Storage allows world-wide storage and retrieval so cater well to our worldwide audience. Cloud storage provides us lifecycle rules that can be configured to automatically delete objects older than 30 days. This also fits our requirements. Finally, Google Cloud Storage offers several storage classes such as Nearline Storage (\$0.01 per GB per Month) Coldline Storage (\$0.007 per GB per Month) and Archive Storage (\$0.004 per GB per month) which are significantly cheaper than any of the options above. Ref: <https://cloud.google.com/storage/docs> Ref: <https://cloud.google.com/storage/pricing>





## QUESTION 5

You are given a project with a single virtual private cloud (VPC) and a single subnetwork in the us-central1 region. There is a Compute Engine instance hosting an application in this subnetwork. You need to deploy a new instance in the same project in the europe-west1 region. This new instance needs access to the application. You want to follow Google-recommended practices. What should you do?

- A. 1. Create a subnetwork in the same VPC, in europe-west1.  
2. Create the new instance in the new subnetwork and use the first instance's private address as the endpoint.

- B. 1. Create a VPC and a subnetwork in europe-west1.

2.

Expose the application with an internal load balancer.

3.

Create the new instance in the new subnetwork and use the load balancer's address as the endpoint.

- C. 1. Create a subnetwork in the same VPC, in europe-west1.

2.

Use Cloud VPN to connect the two subnetworks.

3.

Create the new instance in the new subnetwork and use the first instance's private address as the endpoint.

- D. 1. Create a VPC and a subnetwork in europe-west1.

2.

Peer the 2 VPCs.

3.

Create the new instance in the new subnetwork and use the first instance's private address as the endpoint.

Correct Answer: A

VPC allows you to spawn multiple subnets in different zones. Routing is handled automatically (because Routers are created automatically).

"use the first instance's private address as the endpoint" means that this new instance will be accessing the app via first instance's private IP (so there should be some routing rules created). Question says: "This new instance needs access to the application."

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