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1 / 5

QUESTION 1

Your application is deployed in a Google Kubernetes Engine (GKE) cluster. You want to expose this application publicly behind a Cloud Load Balancing HTTP(S) load balancer. What should you do?

A. Configure a GKE Ingress resource.

B. Configure a GKE Service resource.

C. Configure a GKE Ingress resource with type: LoadBalancer.

D. Configure a GKE Service resource with type: LoadBalancer.

Correct Answer: A

Reference: https://cloud.google.com/kubernetes-engine/docs/concepts/ingress

QUESTION 2

Your service adds text to images that it reads from Cloud Storage. During busy times of the year, requests to Cloud Storage fail with an HTTP 429 "Too Many Requests" status code.

How should you handle this error?

A. Add a cache-control header to the objects.

B. Request a quota increase from the GCP Console.

C. Retry the request with a truncated exponential backoff strategy.

D. Change the storage class of the Cloud Storage bucket to Multi-regional.

Correct Answer: C

Reference: https://developers.google.com/gmail/api/v1/reference/quota

QUESTION 3

You are developing a web application that contains private images and videos stored in a Cloud Storage bucket. Your users are anonymous and do not have Google Accounts. You want to use your application-specific logic to control access to the images and videos. How should you configure access?

A. Cache each web application user\\'s IP address to create a named IP table using Google Cloud Armor. Create a Google Cloud Armor security policy that allows users to access the backend bucket.

B. Grant the Storage Object Viewer IAM role to allUsers. Allow users to access the bucket after authenticating through your web application.

C. Configure Identity-Aware Proxy (IAP) to authenticate users into the web application. Allow users to access the bucket after authenticating through IAP.

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3 / 5

D. Generate a signed URL that grants read access to the bucket. Allow users to access the URL after authenticating
through your web application.

Correct Answer: D

https://cloud.google.com/storage/docs/access-control/signed-urls#should-you-use In some scenarios, you might not
want to require your users to have a Google account in order to access Cloud Storage, but you still want to control
access using your application-specific logic. The typical way to address this use case is to provide a signed URL to a
user, which gives the user read, write, or delete access to that resource for a limited time. You specify an expiration time
when you create the signed URL. Anyone who knows the URL can access the resource until the expiration time for the
URL is reached or the key used to sign the URL is rotated.

QUESTION 4

Your teammate has asked you to review the code below. Its purpose is to efficiently add a large number of small rows to
a BigQuery table.

```
BigQuery service = BigQueryOptions.newBuilder().build().getService();

    public void writeToBigQuery(Collection<Map<String, String>> rows){
        for(Map<String, String> row : rows) {
            InsertAllRequest insertRequest = InsertAllRequest.newBuilder(
                "datasetId", "tableId",
                InsertAllRequest.RowToInsert.of(row)).build();
            service.insertAll(insertRequest);
        }
    }
}
```

Which improvement should you suggest your teammate make?

A. Include multiple rows with each request.

B. Perform the inserts in parallel by creating multiple threads.

C. Write each row to a Cloud Storage object, then load into BigQuery.

D. Write each row to a Cloud Storage object in parallel, then load into BigQuery.

Correct Answer: B

QUESTION 5

Your application is deployed in a Google Kubernetes Engine (GKE) cluster. When a new version of your application is
released, your CI/CD tool updates the spec.template.spec.containers[0].image value to reference the Docker image of
your new application version. When the Deployment object applies the change, you want to deploy at least 1 replica of
the new version and maintain the previous replicas until the new replica is healthy.

Which change should you make to the GKE Deployment object shown below?

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4 / 5

```
> gcloud container clusters create large-cluster --num-nodes 200
```

A. Set the Deployment strategy to RollingUpdate with maxSurge set to 0, maxUnavailable set to 1.

B. Set the Deployment strategy to RollingUpdate with maxSurge set to 1, maxUnavailable set to 0.

C. Set the Deployment strategy to Recreate with maxSurge set to 0, maxUnavailable set to 1.

D. Set the Deployment strategy to Recreate with maxSurge set to 1, maxUnavailable set to 0.

Correct Answer: D

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5 / 5