

# 100% Pass 2026 Professional-Cloud-Architect: Google Certified Professional - Cloud Architect (GCP)–The Best Latest Study Questions



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To prepare for the GCP exam, candidates can take advantage of a range of resources available online. Google offers a range of training programs, including online courses, tutorials, and hands-on labs, to help candidates build their knowledge and skills in GCP. Additionally, third-party training providers offer courses and study materials that can help candidates prepare for the exam.

Google Professional-Cloud-Architect exam is a certification program that focuses on testing an individual's ability to design and manage secure, scalable, and reliable cloud-based solutions using Google Cloud Platform (GCP). Google Certified Professional - Cloud Architect (GCP) certification is aimed at cloud architects, engineers, and consultants who want to showcase their expertise in Google Cloud technologies and help their organizations migrate to the cloud.

Google Professional-Cloud-Architect (Google Certified Professional - Cloud Architect (GCP)) certification exam is designed for individuals who are skilled in developing and designing solutions on Google Cloud Platform. Professional-Cloud-Architect exam measures an individual's ability to design, plan, and manage solutions on Google Cloud Platform. It is an advanced-level exam that tests the candidate's knowledge of cloud architecture, infrastructure, security, and compliance.

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## Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q244-Q249):

### NEW QUESTION # 244

Your company has a project in Google Cloud with three Virtual Private Clouds (VPCs). There is a Compute Engine instance on each VPC. Network subnets do not overlap and must remain separated. The network configuration is shown below.

Instance #1 is an exception and must communicate directly with both Instance #2 and Instance #3 via internal IPs. How should you accomplish this?

- A. Create a cloud router to advertise subnet #2 and subnet #3 to subnet #1.
- B. Add two additional NICs to Instance #1 with the following configuration:
  - \*NIC1  
VPC: VPC #2  
SUBNETWORK: subnet #2
  - \*NIC2  
VPC: VPC #3  
SUBNETWORK: subnet #3  
Update firewall rules to enable traffic between instances.
- C. Create two VPN tunnels via CloudVPN:
  - \*1 between VPC #1 and VPC #2.
  - \*1 between VPC #2 and VPC #3.  
Update firewall rules to enable traffic between the instances.
- D. Peer all three VPCs:
  - \*Peer VPC #1 with VPC #2.
  - \*Peer VPC #2 with VPC #3.  
Update firewall rules to enable traffic between the instances.

**Answer: B**

### NEW QUESTION # 245

Your development teams release new versions of games running on Google Kubernetes Engine (GKE) daily.

You want to create service level indicators (SLIs) to evaluate the quality of the new versions from the user's perspective. What should you do?

- A. Create Server Uptime and Error Rate as service level indicators.
- B. Create Request Latency and Error Rate as service level indicators.
- C. Create CPU Utilization and Request Latency as service level indicators.
- D. Create GKE CPU Utilization and Memory Utilization as service level indicators.

**Answer: B**

Explanation:

Topic 10, Helicopter Racing League

Company Overview

Helicopter Racing League (HRL) is a global sports league for competitive helicopter racing. Each year HRL holds the world championship and several regional league competitions where teams compete to earn a spot in the world championship. HRL offers a paid service to stream the races all over the world with live telemetry and predictions throughout each race.

Solution concept

HRL wants to migrate their existing service to a new platform to expand their use of managed AI and ML services to facilitate race predictions. Additionally, as new fans engage with the sport, particularly in emerging regions, they want to move the serving of their content, both real-time and recorded, closer to their users.

Existing technical environment

HRL is a public cloud-first company; the core of their mission-critical applications runs on their current public cloud provider. Video recording and editing is performed at the race tracks, and the content is encoded and transcoded, where needed, in the cloud.

Enterprise-grade connectivity and local compute is provided by truck-mounted mobile data centers. Their race prediction services are hosted exclusively on their existing public cloud provider. Their existing technical environment is as follows:

Existing content is stored in an object storage service on their existing public cloud provider.

Video encoding and transcoding is performed on VMs created for each job.

Race predictions are performed using TensorFlow running on VMs in the current public cloud provider.

#### Business Requirements

HRL's owners want to expand their predictive capabilities and reduce latency for their viewers in emerging markets. Their requirements are:

Support ability to expose the predictive models to partners.

Increase predictive capabilities during and before races:

\* Race results

\* Mechanical failures

\* Crowd sentiment

Increase telemetry and create additional insights.

Measure fan engagement with new predictions.

Enhance global availability and quality of the broadcasts.

Increase the number of concurrent viewers.

Minimize operational complexity.

Ensure compliance with regulations.

Create a merchandising revenue stream

#### Technical Requirements

Maintain or increase prediction throughput and accuracy.

Reduce viewer latency.

Increase transcoding performance.

Create real-time analytics of viewer consumption patterns and engagement.

Create a data mart to enable processing of large volumes of race data.

#### Executive statement

Our CEO, S. Hawke, wants to bring high-adrenaline racing to fans all around the world. We listen to our fans, and they want enhanced video streams that include predictions of events within the race (e.g., overtaking). Our current platform allows us to predict race outcomes but lacks the facility to support real-time predictions during races and the capacity to process season-long results.

### NEW QUESTION # 246

For this question, refer to the TerramEarth case study.

TerramEarth's CTO wants to use the raw data from connected vehicles to help identify approximately when a vehicle in the development team to focus their failure. You want to allow analysts to centrally query the vehicle data. Which architecture should you recommend?

- A)
- B)
- C)
- D)

- A. Option C
- B. Option B
- C. Option D
- D. Option A

#### Answer: D

Explanation:

<https://cloud.google.com/solutions/iot/>

<https://cloud.google.com/solutions/designing-connected-vehicle-platform>

[https://cloud.google.com/solutions/designing-connected-vehicle-platform#data\\_ingestion](https://cloud.google.com/solutions/designing-connected-vehicle-platform#data_ingestion)

<http://www.eweek.com/big-data-and-analytics/google-touts-value-of-cloud-iot-core-for-analyzing-connected-car-data>

<https://cloud.google.com/solutions/iot/>

The push endpoint can be a load balancer.

A container cluster can be used.

Cloud Pub/Sub for Stream Analytics

References: <https://cloud.google.com/pubsub/>

<https://cloud.google.com/solutions/iot/>

<https://cloud.google.com/solutions/designing-connected-vehicle-platform>

[https://cloud.google.com/solutions/designing-connected-vehicle-platform#data\\_ingestion](https://cloud.google.com/solutions/designing-connected-vehicle-platform#data_ingestion)

<http://www.eweek.com/big-data-and-analytics/google-touts-value-of-cloud-iot-core-for-analyzing-connected-car-data>

<https://cloud.google.com/solutions/iot/>

#### NEW QUESTION # 247

You need to upload files from your on-premises environment to Cloud Storage. You want the files to be encrypted on Cloud Storage using customer-supplied encryption keys. What should you do?

- A. Use gsutil to upload the files, and use the flag --encryption-key to supply the encryption key.
- B. Supply the encryption key using gcloud config. Use gsutil to upload the files to that bucket.
- C. Use gsutil to create a bucket, and use the flag --encryption-key to supply the encryption key. Use gsutil to upload the files to that bucket.
- D. Supply the encryption key in a .boto configuration file. Use gsutil to upload the files.

**Answer: A**

Explanation:

Explanation

<https://cloud.google.com/storage/docs/encryption/customer-supplied-keys>

#### NEW QUESTION # 248

You have an application deployed on Kubernetes Engine using a Deployment named echo-deployment. The deployment is exposed using a Service called echo-service. You need to perform an update to the application with minimal downtime to the application. What should you do?

- A. Use the rolling update functionality of the Instance Group behind the Kubernetes cluster
- B. Update the deployment yaml file with the new container image. Use kubectl delete deployment/ echo-deployment and kubectl create -f<yaml-file>
- C. Update the service yaml file which the new container image. Use kubectl delete service/echoservice and kubectl create -f <yaml-file>
- D. Use kubectl set image deployment/echo-deployment <new-image>

**Answer: D**

Explanation:

[https://cloud.google.com/kubernetes-engine/docs/how-to/updating-apps#updating\\_an\\_application](https://cloud.google.com/kubernetes-engine/docs/how-to/updating-apps#updating_an_application)

#### NEW QUESTION # 249

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