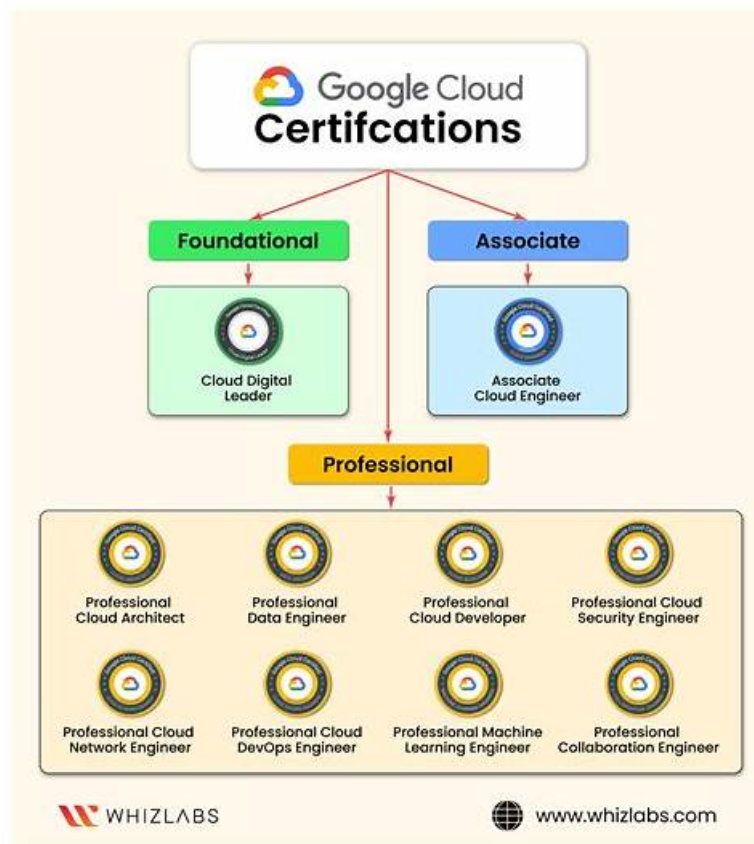


# Google Professional-Cloud-Architect Test Pattern & Best Professional-Cloud-Architect Practice



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If you can get a certification, it will help you a lot, for instance, it will help you get a more job and a better title in your company than before, and the Professional-Cloud-Architect certification will help you get a higher salary. We believe that our company has the ability to help you successfully pass your exam and get a Professional-Cloud-Architect certification by our Professional-Cloud-Architect exam torrent. We can promise that you would like to welcome this opportunity to kill two birds with one stone. If you choose our Professional-Cloud-Architect Test Questions as your study tool, you will be glad to study for your exam and develop self-discipline, our Professional-Cloud-Architect latest question adopt diversified teaching methods, and we can sure that you will have passion to learn by our products.

To become a Google Certified Professional - Cloud Architect, candidates must pass the GCP certification exam. Professional-Cloud-Architect exam consists of multiple-choice questions and is delivered online. Candidates have two hours to complete the exam, and they must score at least 70% to pass. Professional-Cloud-Architect exam fee is \$200 USD, and it is recommended that candidates have at least three years of industry experience before taking the exam.

The Google Professional-Cloud-Architect exam consists of multiple-choice and multiple-select questions that assess the candidate's ability to design and plan a cloud solution architecture, manage and provision the GCP infrastructure, and optimize the technical and business processes. Professional-Cloud-Architect Exam also tests the candidate's knowledge of security and compliance issues related to GCP.

Google Professional-Cloud-Architect certification exam is a valuable asset for professionals who work with GCP. It validates the candidate's skills and knowledge required to design, develop, and manage cloud solutions using GCP services. Google Certified Professional - Cloud Architect (GCP) certification exam covers various topics related to cloud architecture, and passing the exam demonstrates the candidate's ability to design and implement cloud solutions using GCP services.

>> Google Professional-Cloud-Architect Test Pattern <<

## Best Professional-Cloud-Architect Practice - Professional-Cloud-Architect Real Exam Answers

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### Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q179-Q184):

#### NEW QUESTION # 179

Your BigQuery project has several users. For audit purposes, you need to see how many queries each user ran in the last month.

- A. In the BigQuery interface, execute a query on the JOBS table to get the required information.
- **B. Use 'bq show' to list all jobs. Per job, use 'bq ls' to list job information and get the required information.**
- C. Use Cloud Audit Logging to view Cloud Audit Logs, and create a filter on the query operation to get the required information.
- D. Connect Google Data Studio to BigQuery. Create a dimension for the users and a metric for the amount of queries per user.

**Answer: B**

Explanation:

Explanation

<https://cloud.google.com/bigquery/docs/managing-jobs>

#### NEW QUESTION # 180

For this question, refer to the Mountkirk Games case study.

Mountkirk Games wants to set up a real-time analytics platform for their new game. The new platform must meet their technical requirements. Which combination of Google technologies will meet all of their requirements?

- A. Cloud Pub/Sub, Compute Engine, Cloud Storage, and Cloud Dataproc
- B. Cloud SQL, Cloud Storage, Cloud Pub/Sub, and Cloud Dataflow
- **C. Cloud Dataflow, Cloud Storage, Cloud Pub/Sub, and BigQuery**
- D. Container Engine, Cloud Pub/Sub, and Cloud SQL
- E. Cloud Dataproc, Cloud Pub/Sub, Cloud SQL, and Cloud Dataflow

**Answer: C**

Explanation:

A real time requires Stream/ Messaging so Pub/Sub, Analytics by Big Query.

Ingest millions of streaming events per second from anywhere in the world with Cloud Pub/Sub, powered by Google's unique, high-speed private network. Process the streams with Cloud Dataflow to ensure reliable, exactly-once, low-latency data transformation. Stream the transformed data into BigQuery, the cloud-native data warehousing service, for immediate analysis via SQL or popular visualization tools.

From scenario: They plan to deploy the game's backend on Google Compute Engine so they can capture streaming metrics, run intensive analytics.

Requirements for Game Analytics Platform

Dynamically scale up or down based on game activity

Process incoming data on the fly directly from the game servers

Process data that arrives late because of slow mobile networks

Allow SQL queries to access at least 10 TB of historical data

Process files that are regularly uploaded by users' mobile devices

Use only fully managed services

## NEW QUESTION # 181

You are developing an application using different microservices that should remain internal to the cluster. You want to be able to configure each microservice with a specific number of replicas. You also want to be able to address a specific microservice from any other microservice in a uniform way, regardless of the number of replicas the microservice scales to. You need to implement this solution on Google Kubernetes Engine. What should you do?

- A. Deploy each microservice as a Pod. Expose the Pod in the cluster using an Ingress, and use the Ingress IP address name to address the Pod from other microservices within the cluster.
- B. Deploy each microservice as a Deployment. Expose the Deployment in the cluster using an Ingress, and use the Ingress IP address to address the Deployment from other microservices within the cluster.
- C. Deploy each microservice as a Pod. Expose the Pod in the cluster using a Service, and use the Service DNS name to address the microservice from other microservices within the cluster.
- **D. Deploy each microservice as a Deployment. Expose the Deployment in the cluster using a Service, and use the Service DNS name to address it from other microservices within the cluster.**

**Answer: D**

Explanation:

<https://kubernetes.io/docs/concepts/services-networking/ingress/>

Topic 1, EHR Health Care

Company Overview

EHR Healthcare is a leading provider of electronic health record software to the medical industry. EHR Healthcare provides their software as a service to multi-national medical offices, hospitals, and insurance providers.

Solution concept

Due to rapid changes in the healthcare and insurance industry, EHR Healthcare's business has been growing exponentially year over year. They need to be able to scale their environment, adapt their disaster recovery plan, and roll out new continuous deployment capabilities to update their software at a fast pace. Google Cloud has been chosen to replace their current colocation facilities.

Existing technical environment

EHR's software is currently hosted in multiple colocation facilities. The lease on one of the data centers is about to expire.

Customer-facing applications are web-based, and many have recently been containerized to run on a group of Kubernetes clusters.

Data is stored in a mixture of relational and NoSQL databases (MySQL, MS SQL Server, Redis, and MongoDB).

EHR is hosting several legacy file- and API-based integrations with insurance providers on-premises. These systems are scheduled to be replaced over the next several years. There is no plan to upgrade or move these systems at the current time.

Users are managed via Microsoft Active Directory. Monitoring is currently being done via various open source tools. Alerts are sent via email and are often ignored.

Business Requirements

- \* On-board new insurance providers as quickly as possible.
- \* Provide a minimum 99.9% availability for all customer-facing systems.
- \* Provide centralized visibility and proactive action on system performance and usage.
- \* Increase ability to provide insights into healthcare trends.
- \* Reduce latency to all customers.
- \* Maintain regulatory compliance.
- \* Decrease infrastructure administration costs.
- \* Make predictions and generate reports on industry trends based on provider data.

Technical Requirements

- \* Maintain legacy interfaces to insurance providers with connectivity to both on-premises systems and cloud providers.
- \* Provide a consistent way to manage customer-facing applications that are container-based.
- \* Provide a secure and high-performance connection between on-premises systems and Google Cloud.
- \* Provide consistent logging, log retention, monitoring, and alerting capabilities.
- \* Maintain and manage multiple container-based environments.
- \* Dynamically scale and provision new environments.
- \* Create interfaces to ingest and process data from new providers.

Executive statement

Our on-premises strategy has worked for years but has required a major investment of time and money in training our team on distinctly different systems, managing similar but separate environments, and responding to outages. Many of these outages have been a result of misconfigured systems, inadequate capacity to manage spikes in traffic, and inconsistent monitoring practices. We want to use Google Cloud to leverage a scalable, resilient platform that can span multiple environments seamlessly and provide a consistent and stable user experience that positions us for future growth.

## NEW QUESTION # 182

## Case Study: 5 - Dress4win

### Company Overview

Dress4win is a web-based company that helps their users organize and manage their personal wardrobe using a website and mobile application. The company also cultivates an active social network that connects their users with designers and retailers. They monetize their services through advertising, e-commerce, referrals, and a freemium app model. The application has grown from a few servers in the founder's garage to several hundred servers and appliances in a collocated data center. However, the capacity of their infrastructure is now insufficient for the application's rapid growth. Because of this growth and the company's desire to innovate faster.

Dress4Win is committing to a full migration to a public cloud.

### Solution Concept

For the first phase of their migration to the cloud, Dress4win is moving their development and test environments. They are also building a disaster recovery site, because their current infrastructure is at a single location. They are not sure which components of their architecture they can migrate as is and which components they need to change before migrating them.

### Existing Technical Environment

The Dress4win application is served out of a single data center location. All servers run Ubuntu LTS v16.04.

### Databases:

MySQL. 1 server for user data, inventory, static data:

- \* - MySQL 5.8
- 8 core CPUs
- 128 GB of RAM
- 2x 5 TB HDD (RAID 1)

Redis 3 server cluster for metadata, social graph, caching. Each server is:

- \* - Redis 3.2
- 4 core CPUs
- 32GB of RAM

### Compute:

40 Web Application servers providing micro-services based APIs and static content.

- \* - Tomcat - Java
- Nginx
- 4 core CPUs
- 32 GB of RAM

20 Apache Hadoop/Spark servers:

- \* - Data analysis
- Real-time trending calculations
- 8 core CPUs
- 128 GB of RAM
- 4x 5 TB HDD (RAID 1)

3 RabbitMQ servers for messaging, social notifications, and events:

- \* - 8 core CPUs
- 32GB of RAM

### Miscellaneous servers:

- \* - Jenkins, monitoring, bastion hosts, security scanners
- 8 core CPUs
- 32GB of RAM

### Storage appliances:

iSCSI for VM hosts

- \* Fiber channel SAN - MySQL databases
- \* - 1 PB total storage; 400 TB available

NAS - image storage, logs, backups

- \* - 100 TB total storage; 35 TB available

### Business Requirements

Build a reliable and reproducible environment with scaled parity of production.

- \* Improve security by defining and adhering to a set of security and Identity and Access Management (IAM) best practices for cloud.

Improve business agility and speed of innovation through rapid provisioning of new resources.

- \* Analyze and optimize architecture for performance in the cloud.
- \* Technical Requirements

Easily create non-production environment in the cloud.

- \* Implement an automation framework for provisioning resources in cloud.
- \* Implement a continuous deployment process for deploying applications to the on-premises datacenter or cloud.

Support failover of the production environment to cloud during an emergency.

\* Encrypt data on the wire and at rest.

\* Support multiple private connections between the production data center and cloud

\* environment.

Executive Statement

Our investors are concerned about our ability to scale and contain costs with our current infrastructure. They are also concerned that a competitor could use a public cloud platform to offset their up-front investment and free them to focus on developing better features. Our traffic patterns are highest in the mornings and weekend evenings; during other times, 80% of our capacity is sitting idle.

Our capital expenditure is now exceeding our quarterly projections. Migrating to the cloud will likely cause an initial increase in spending, but we expect to fully transition before our next hardware refresh cycle. Our total cost of ownership (TCO) analysis over the next 5 years for a public cloud strategy achieves a cost reduction between 30% and 50% over our current model.

For this question, refer to the Dress4Win case study. Dress4Win is expected to grow to 10 times its size in 1 year with a corresponding growth in data and traffic that mirrors the existing patterns of usage. The CIO has set the target of migrating production infrastructure to the cloud within the next 6 months. How will you configure the solution to scale for this growth without making major application changes and still maximize the ROI?

- A. Migrate the web application layer to App Engine, and MySQL to Cloud Datastore, and NAS to Cloud Storage. Deploy RabbitMQ, and deploy Hadoop servers using Deployment Manager.
- B. Migrate RabbitMQ to Cloud Pub/Sub, Hadoop to BigQuery, and NAS to Compute Engine with Persistent Disk storage. Deploy Tomcat, and deploy Nginx using Deployment Manager.
- C. Implement managed instance groups for Tomcat and Nginx. Migrate MySQL to Cloud SQL, RabbitMQ to Cloud Pub/Sub, Hadoop to Cloud Dataproc, and NAS to Compute Engine with Persistent Disk storage.
- **D. Implement managed instance groups for the Tomcat and Nginx. Migrate MySQL to Cloud SQL, RabbitMQ to Cloud Pub/Sub, Hadoop to Cloud Dataproc, and NAS to Cloud Storage.**

**Answer: D**

#### NEW QUESTION # 183

Your organization has a 3-tier web application deployed in the same network on Google Cloud Platform. Each tier (web, API, and database) scales independently of the others. Network traffic should flow through the web to the API tier and then on to the database tier.

Traffic should not flow between the web and the database tier. How should you configure the network?

- A. Add each tier to a different subnetwork.
- B. Add tags to each tier and set up routes to allow the desired traffic flow.
- **C. Add tags to each tier and set up firewall rules to allow the desired traffic flow.**
- D. Set up software based firewalls on individual VMs.

**Answer: C**

Explanation:

Explanation: <https://aws.amazon.com/blogs/aws/building-three-tier-architectures-with-security-groups/>

#### NEW QUESTION # 184

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