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About CertyIQ

We here at CertyIQ eventually got enough of the industry's greedy exam paid for. Our team of IT professionals comes with years of experience in the IT industry Prior to training CertyIQ we worked in test areas where we observed the horrors of the paywall exam preparation system.

The misuse of the preparation system has left our team disillusioned. And for that reason, we decided it was time to make a difference. We had to make In this way, CertyIQ was created to provide quality materials without stealing from everyday people who are trying to make a living.

Doubt Support

We have developed a very scalable solution using which we are able to solve 400+ doubts every single day with an average rating of 4.8 out of 5.

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John

October 19, 2022



Thanks you so much for your help. I scored 972 in my exam today. More than 90% were from your PDFs!

October 22, 2022



Passed my exam today with 891 marks. Out of 52 questions, 51 were from certyiq PDFs including Contoso case study. Thank You certyiq team!

Dana

September 04, 2022



Thanks a lot for this updated AZ-900 Q&A. I just passed my exam and got 974, I followed both of your Az-900 videos and the 6 PDF, the PDFs are very much valid, all answers are correct. Could you please create a similar video/PDF for DP900, your content/PDF's is really awesome. The team did a really good job. Thank You 😊.

Henry Rome

2 months ago



These questions are real and 100 % valid. Thank you so much for your efforts, also your 4 PDFs are awesome, I passed the DP900 exam on 1 Sept. With 968 marks. Thanks a lot, buddy!

Esmaria

2 months ago



Simple easy to understand explanations. To anyone out there wanting to write AZ900, I highly recommend 6 PDF's. Thank you so much, appreciate all your hard work in having such great content. Passed my exam Today - 3 September with 942 score.

Ahamed Shibly

2 months ago



Customer support is realy fast and helpful, I just finished my exam and this video along with the 6 PDF helped me pass! Definitely recommend getting the PDFs. Thank you!

Google

(Cloud Digital Leader)

Cloud Digital Leader

Total: **192 Questions**

Link: <https://certiq.com/papers?provider=google&exam=cloud-digital-leader>

Question: 1**CertyIQ**

You are migrating workloads to the cloud. The goal of the migration is to serve customers worldwide as quickly as possible. According to local regulations, certain data is required to be stored in a specific geographic area, and it can be served worldwide. You need to design the architecture and deployment for your workloads. What should you do?

- A. Select a public cloud provider that is only active in the required geographic area
- B. Select a private cloud provider that globally replicates data storage for fast data access
- C. Select a public cloud provider that guarantees data location in the required geographic area
- D. Select a private cloud provider that is only active in the required geographic area

Answer: C**Explanation:**

C. Select a public cloud provider that guarantees data location in the required geographic area

Question: 2**CertyIQ**

Your organization needs a large amount of extra computing power within the next two weeks. After those two weeks, the need for the additional resources will end. Which is the most cost-effective approach?

- A. Use a committed use discount to reserve a very powerful virtual machine
- B. Purchase one very powerful physical computer
- C. Start a very powerful virtual machine without using a committed use discount
- D. Purchase multiple physical computers and scale workload across them

Answer: C**Explanation:**

C is correct because we don't know the compute use for 2 weeks and discount is available on 1-3 years not for 2 weeks.

<https://cloud.google.com/compute/docs/instances/signing-up-committed-use-discounts>

Question: 3**CertyIQ**

Your organization needs to plan its cloud infrastructure expenditures. Which should your organization do?

- A. Review cloud resource costs frequently, because costs change often based on use
- B. Review cloud resource costs annually as part of planning your organization's overall budget
- C. If your organization uses only cloud resources, infrastructure costs are no longer part of your overall budget
- D. Involve fewer people in cloud resource planning than your organization did for on-premises resource planning

Answer: A**Explanation:**

A. Review cloud resource costs frequently, because costs change often based on use

Question: 4

CertyIQ

The operating systems of some of your organization's virtual machines may have a security vulnerability. How can your organization most effectively identify all virtual machines that do not have the latest security update?

- A. View the Security Command Center to identify virtual machines running vulnerable disk images
- B. View the Compliance Reports Manager to identify and download a recent PCI audit
- C. View the Security Command Center to identify virtual machines started more than 2 weeks ago
- D. View the Compliance Reports Manager to identify and download a recent SOC 1 audit

Answer: A

Explanation:

You can filter findings by detector name and finding type using the Security Command Center Vulnerabilities tab in the Google Cloud console

Question: 5

CertyIQ

You are currently managing workloads running on Windows Server for which your company owns the licenses. Your workloads are only needed during working hours, which allows you to shut down the instances during the weekend. Your Windows Server licenses are up for renewal in a month, and you want to optimize your license cost. What should you do?

- A. Renew your licenses for an additional period of 3 years. Renew your licenses for an additional period of 3 years. Negotiate a cost reduction with your current hosting provider wherein infrastructure cost is reduced when workloads are not in use
- B. Renew your licenses for an additional period of 2 years. Negotiate a cost reduction by committing to an automatic renewal of the licenses at the end of the 2 year period
- C. Migrate the workloads to Compute Engine with a bring-your-own-license (BYOL) model
- D. Migrate the workloads to Compute Engine with a pay-as-you-go (PAYG) model

Answer: D

Explanation:

License cost will be reduced / eliminated if you go with "D" option. You don't need BYOL as the license is going to expire soon anyway. If license were for another year or so, then BYOL would have been the choice

Question: 6

CertyIQ

Your organization runs a distributed application in the Compute Engine virtual machines. Your organization needs redundancy, but it also needs extremely fast communication (less than 10 milliseconds) between the parts of the application in different virtual machines.

Where should your organization locate this virtual machines?

- A. In a single zone within a single region
- B. In different zones within a single region

- C. In multiple regions, using one zone per region
- D. In multiple regions, using multiple zones per region

Answer: B

Explanation:

B

since it guarantees a latency of ~10 milliseconds is maintained, well also giving the redundancy of multi-zone. If it was D, we could not guarantee 10 milliseconds between the different regions.

Question: 7

CertyIQ

An organization decides to migrate their on-premises environment to the cloud. They need to determine which resource components still need to be assigned ownership.
Which two functions does a public cloud provider own? (Choose two.)

- A. Hardware maintenance
- B. Infrastructure architecture
- C. Infrastructure deployment automation
- D. Hardware capacity management
- E. Fixing application security issues

Answer: AD

Explanation:

A & D. CSP is generally responsible for the maintenance of all its hardware. Whereas customer is responsible for how the application-side is run in those hardware.

Question: 8

CertyIQ

You are a program manager within a Software as a Service (SaaS) company that offers rendering software for animation studios. Your team needs the ability to allow scenes to be scheduled at will and to be interrupted at any time to restart later. Any individual scene rendering takes less than 12 hours to complete, and there is no service-level agreement (SLA) for the completion time for all scenes. Results will be stored in a global Cloud Storage bucket. The compute resources are not bound to any single geographical location. This software needs to run on Google Cloud in a cost-optimized way.

What should you do?

- A. Deploy the application on Compute Engine using preemptible instances
- B. Develop the application so it can run in an unmanaged instance group
- C. Create a reservation for the minimum number of Compute Engine instances you will use
- D. Start more instances with fewer virtual centralized processing units (vCPUs) instead of fewer instances with more vCPUs

Answer: A

Explanation:

Can be interrupted at any time to restart later, software needs to run on Google Cloud in a cost-optimized way

Question: 9

CertyIQ

Your manager wants to restrict communication of all virtual machines with internet access; with resources in another network; or with a resource outside Compute Engine. It is expected that different teams will create new folders and projects in the near future. How would you restrict all virtual machines from having an external IP address?

- A. Define an organization policy at the root organization node to restrict virtual machine instances from having an external IP address
- B. Define an organization policy on all existing folders to define a constraint to restrict virtual machine instances from having an external IP address
- C. Define an organization policy on all existing projects to restrict virtual machine instances from having an external IP address
- D. Communicate with the different teams and agree that each time a virtual machine is created, it must be configured without an external IP address

Answer: A

Explanation:

Reference:

<https://cloud.google.com/resource-manager/docs/organization-policy/overview>

" target="_blank" style="word-break: break-all;">>

The screenshot shows a web page titled "Introduction to the Organization Policy Service". The page includes a sidebar with navigation links for quickstarts, how-to guides, concepts, and an overview of the Resource Manager and Organization policy service. The main content area describes the service's purpose of giving centralized control over organization's cloud resources. It also lists benefits such as centralizing control and defining guardrails for development teams.

Introduction to the Organization Policy Service

The Organization Policy Service gives you centralized and programmatic control over your organization's cloud resources. As the [organization policy administrator](#), you will be able to configure constraints across your entire [resource hierarchy](#).

Benefits

- Centralize control to configure restrictions on how your organization's resources can be used.
- Define and establish guardrails for your development teams to stay within compliance boundaries.

Question: 10

CertyIQ

Your multinational organization has servers running mission-critical workloads on its premises around the world. You want to be able to manage these workloads consistently and centrally, and you want to stop managing infrastructure.

What should your organization do?

- A. Migrate the workloads to a public cloud
- B. Migrate the workloads to a central office building
- C. Migrate the workloads to multiple local co-location facilities
- D. Migrate the workloads to multiple local private clouds

Answer: A

Explanation:

A is correct. Key is manage centrally.

manage these workloads consistently and centrally, and you want to stop managing infrastructure.

Question: 11

CertyIQ

Your organization stores highly sensitive data on-premises that cannot be sent over the public internet. The data must be processed both on-premises and in the cloud.

What should your organization do?

- A. Configure Identity-Aware Proxy (IAP) in your Google Cloud VPC network
- B. Create a Cloud VPN tunnel between Google Cloud and your data center
- C. Order a Partner Interconnect connection with your network provider
- D. Enable Private Google Access in your Google Cloud VPC network

Answer: C

Explanation:

After the service provider provisions your connection, you can start passing traffic between your networks by using the service provider's network.

Reference:

<https://cloud.google.com/network-connectivity/docs/interconnect/concepts/partner-overview>

Partner Interconnect overview

[Send feedback](#)

Partner Interconnect provides connectivity between your on-premises network and your Virtual Private Cloud (VPC) network through a supported service provider. A Partner Interconnect connection is useful if your data center is in a physical location that can't reach a Dedicated Interconnect colocation facility, or your data needs don't warrant an entire 10-Gbps connection.

Before you use Partner Interconnect

Ensure that you meet the following requirements:

- Be familiar with [Cloud Interconnect terminology](#).
- Work with a [supported service provider](#) to establish connectivity between their network and your on-premises network. Supported service providers offer Layer 2 connectivity, Layer 3

Question: 12

CertyIQ

Your company's development team is building an application that will be deployed on Cloud Run. You are designing a CI/CD pipeline so that any new version of the application can be deployed in the fewest number of steps possible using the CI/CD pipeline you are designing. You need to select a storage location for the images of the application after the CI part of your pipeline has built them.

What should you do?

- A. Create a Compute Engine image containing the application
- B. Store the images in Container Registry
- C. Store the images in Cloud Storage

D. Create a Compute Engine disk containing the application

Answer: B

Explanation:

Reference:

<https://cloud.google.com/container-registry/docs/pushing-and-pulling>

" target="_blank" style="word-break: break-all;">>

Container Registry > Container Registry documentation > Guides

Was this helpful?

Pushing and pulling images

[Send feedback](#)

Pushing (uploading) and pulling (downloading) images are two of the most common Container Registry tasks. This document focuses on pushing and pulling images with Docker.



Note: Starting with GKE node version 1.19, the default node image for Linux nodes is the Container-Optimized OS with Containerd (`cos_containerd`) variant instead of the Container-Optimized OS with Docker (`cos`) variant.

For troubleshooting and logging using GKE with Containerd, use `cubectl`. For open source Kubernetes, refer to the [containerd documentation](#).

Question: 13

CertyIQ

Each of the three cloud service models - infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS) - offers benefits between flexibility and levels of management by the cloud provider and the customer.

Why would SaaS be the right choice of service model?

- A. You want a balance between flexibility for the customer and the level of management by the cloud provider
- B. You want to minimize the level of management by the customer
- C. You want to maximize flexibility for the customer.
- D. You want to be able to shift your emphasis between flexibility and management by the cloud provider as business needs change

Answer: B

Explanation:

Benefits of SaaS -

The main benefit of SaaS is that it offloads all infrastructure and application management to the SaaS vendor.

Reference:

<https://www.ibm.com/cloud/learn/iaas-paas-saas>

" target="_blank" style="word-break: break-all;">>

What are IaaS, PaaS and SaaS?

IaaS, PaaS and SaaS are the three most popular types of cloud service offerings. (They are sometimes referred to as cloud service models or cloud computing service models.)

- IaaS, or infrastructure as a service, is on-demand access to cloud-hosted physical and virtual servers, storage and networking - the backend IT infrastructure for running applications and workloads in the cloud.
- PaaS, or platform as a service, is on-demand access to a complete, ready-to-use, cloud-hosted platform for developing, running,

Question: 14

CertyIQ

As your organization increases its release velocity, the VM-based application upgrades take a long time to perform rolling updates due to OS boot times. You need to make the application deployments faster. What should your organization do?

- A. Migrate your VMs to the cloud, and add more resources to them
- B. Convert your applications into containers
- C. Increase the resources of your VMs
- D. Automate your upgrade rollouts

Answer: B

Explanation:

The last sentence is key. "You need to make the application deployments faster." By converting apps into containers, you speed up the deployment by removing the OS boot component in the previous statement. Answer is B.

Question: 15

CertyIQ

Your organization uses Active Directory to authenticate users. Users' Google account access must be removed when their Active Directory account is terminated.

How should your organization meet this requirement?

- A. Configure two-factor authentication in the Google domain
- B. Remove the Google account from all IAM policies
- C. Configure BeyondCorp and Identity-Aware Proxy in the Google domain
- D. Configure single sign-on in the Google domain

Answer: D

Explanation:

Your organization uses Active Directory to authenticate users.

Then you need to use Single sign-on (SSO) is an authentication scheme that allows a user to log in with a single ID and password to different systems and software.

SSO allows IT departments to administer a single identity that can access many machines and cloud services.

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Question: 16

Your company has recently acquired three growing startups in three different countries. You want to reduce overhead in infrastructure management and keep your costs low without sacrificing security and quality of service to your customers.

How should you meet these requirements?

- A. Host all your subsidiaries' services on-premises together with your existing services.
- B. Host all your subsidiaries' services together with your existing services on the public cloud.
- C. Build a homogenous infrastructure at each subsidiary, and invest in training their engineers.
- D. Build a homogenous infrastructure at each subsidiary, and invest in hiring more engineers.

Answer: B

Explanation:

Both maintenance cost becomes cheaper and management becomes easier when subsidiaries workloads along with parent organisation's workloads are deployed on the public cloud.

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Question: 17

What is the difference between Standard and Coldline storage?

- A. Coldline storage is for data for which a slow transfer rate is acceptable.
- B. Standard and Coldline storage have different durability guarantees.
- C. Standard and Coldline storage use different APIs.
- D. Coldline storage is for infrequently accessed data.

Answer: D

Explanation:

Reference:

<https://www.msp360.com/resources/blog/google-cloud-nearline-storage-vs-coldline-vs-standard/>

The main characteristics of Coldline are as follows:

- SLA guarantees 99% data availability (of ten thousand hours, data can be offline for up to 100 hours).
- Monthly fee per GB stored is between \$0.004-\$0.014, depending on a region.
- The minimum storing period is 90 days. If you delete data earlier, you have to pay for the remaining time. For example, if you had uploaded 100GB of data and then deleted it after 30 days, you need to pay extra \$1.4 as an early deletion fee (\$0.004 (or \$0.014) * 100 GB * 2 months).
- Data retrieval fee is mandatory and costs \$0.05 per GB.

Its low price and a long minimum storing period make Nearline the best solution for data that is unlikely to be accessed more than once a year, if ever:

- Data archive.
- Disaster recovery storage.
- Outdated backups storage.

Question: 18

CertyIQ

What would provide near-unlimited availability of computing resources without requiring your organization to procure and provision new equipment?

- A. Public cloud
- B. Containers
- C. Private cloud
- D. Microservices

Answer: A

Explanation:

Reference:

<https://cloud.google.com/docs/overview>

Question: 19

CertyIQ

You are a program manager for a team of developers who are building an event-driven application to allow users to follow one another's activities in the app. Each time a user adds himself as a follower of another user, a write occurs in the real-time database.

The developers will develop a lightweight piece of code that can respond to database writes and generate a notification to let the appropriate users know that they have gained new followers. The code should integrate with other cloud services such as Pub/Sub, Firebase, and Cloud APIs to streamline the orchestration process. The application requires a platform that automatically manages underlying infrastructure and scales to zero when there is no activity.

Which primary compute resource should your developers select, given these requirements?

- A. Google Kubernetes Engine
- B. Cloud Functions
- C. App Engine flexible environment
- D. Compute Engine

Answer: B

Explanation:

Reference:

<https://firebase.google.com/docs/functions/use-cases>

" target="_blank" style="word-break: break-all;">>

Cloud Functions gives developers access to Firebase and Google Cloud events, along with scalable computing power to run code in response to those events. While it's expected that Firebase apps will use Cloud Functions in unique ways to meet their unique requirements, typical use cases might fall into these areas:

- Notify users when something interesting happens.
- Perform database sanitization and maintenance.
- Execute intensive tasks in the cloud instead of in your app.
- Integrate with third-party services and APIs.

Review the use cases and examples for each category that interests you, and then proceed to our [Get Started](#) tutorial or to specific how-to guides for [authentication events](#), [analytics events](#), and more. See the [eventType](#) API reference for the complete list of supported event types.

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Question: 20

Your organization is developing an application that will capture a large amount of data from millions of different sensor devices spread all around the world. Your organization needs a database that is suitable for worldwide, high-speed data storage of a large amount of unstructured data.

Which Google Cloud product should your organization choose?

- A. Firestore
- B. Cloud Data Fusion
- C. Cloud SQL
- D. Cloud Bigtable

Answer: D

Explanation:

Reference:

<https://cloud.google.com/bigtable>

" target="_blank" style="word-break: break-all;">>

Cloud Bigtable

Cloud Bigtable

Benefits

Key features

Customers

What's new

Documentation

Use cases

Financial analysis

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- ✓ Consistent sub-10ms latency—handle millions of requests per second
- ✓ Ideal for use cases such as personalization, ad tech, fintech, digital media, and IoT

Question: 21

CertyIQ

Your organization needs to build streaming data pipelines. You don't want to manage the individual servers that do the data processing in the pipelines. Instead, you want a managed service that will automatically scale with the amount of data to be processed.

Which Google Cloud product or feature should your organization choose?

- A. Pub/Sub
- B. Dataflow
- C. Data Catalog
- D. Dataprep by Trifacta

Answer: B**Explanation:**

Reference:

<https://cloud.google.com/dataflow/docs/guides/deploying-a-pipeline>

Deploying a pipeline

[Send feedback](#)

- ★ This document explains in detail how Dataflow deploys and runs a pipeline, and covers advanced topics like optimization and load balancing. If you are looking for a step-by-step guide on how to create and deploy your first pipeline, use Dataflow's quickstarts for [Java](#), [Python](#) or [templates](#).

After you construct and test your Apache Beam pipeline, you can use the Dataflow managed service to deploy and execute it. Once on the Dataflow service, your pipeline code becomes a Dataflow job.

The Dataflow service fully manages Google Cloud services such as [Compute Engine](#) and [Cloud Storage](#) to run your Dataflow job, automatically spinning up and tearing down the necessary resources. The Dataflow service provides visibility into your job through tools like the [Dataflow monitoring interface](#) and the [Dataflow command-line interface](#).

Question: 22

CertyIQ

Your organization is building an application running in Google Cloud. Currently, software builds, tests, and regular deployments are done manually, but you want to reduce work for the team. Your organization wants to use Google Cloud managed solutions to automate your build, testing, and deployment process.

Which Google Cloud product or feature should your organization use?

- A. Cloud Scheduler
- B. Cloud Code
- C. Cloud Build
- D. Cloud Deployment Manager

Answer: C

Explanation:

Deploy your application to App Engine using the gcloud app deploy command. This command automatically builds a container image by using the Cloud Build service and then deploys that image to the App Engine flexible environment.

Reference:

<https://cloud.google.com/appengine/docs/flexible/nodejs/testing-and-deploying-your-app>

" target="_blank" style="word-break: break-all;">>

Testing and Deploying your Application

[Send feedback](#)

[Python](#) | [Java](#) | [Node.js](#) | [Go](#) | [Ruby](#) | [PHP](#) | [.NET](#)

Learn how to run your application locally, deploy it, and test on App Engine.

Running locally

To test your application's functionality before deploying, run your application in your local environment with the development tools that you usually use.

For example, `npm start`.

Question: 23

CertyIQ

Which Google Cloud product can report on and maintain compliance on your entire Google Cloud organization to cover multiple projects?

- A. Cloud Logging
- B. Identity and Access Management
- C. Google Cloud Armor
- D. Security Command Center

Answer: D

Explanation:

Answer is D: SCC - Gain centralized visibility and control

Discover misconfigurations and vulnerabilities

Report on and maintain compliance

Detect threats targeting your Google Cloud assets

Question: 24

CertyIQ

Your organization needs to establish private network connectivity between its on-premises network and its workloads running in Google Cloud. You need to be able to set up the connection as soon as possible. Which Google Cloud product or feature should you use?

- A. Cloud Interconnect
- B. Direct Peering
- C. Cloud VPN
- D. Cloud CDN

Answer: C

Explanation:

Cloud VPN setup can be done instantly and though it travels over internet, it is private in nature. Cloud interconnect needs physically dedicated connection.

Question: 25

CertyIQ

Your organization is developing a mobile app and wants to select a fully featured cloud-based compute platform for it.

Which Google Cloud product or feature should your organization use?

- A. Google Kubernetes Engine
- B. Firebase
- C. Cloud Functions
- D. App Engine

Answer: B

Explanation:

The correct answer is B, always look for key points, "mobile app", best option for this is for sure Firebase, is mobile friendly, I have taken multiple webinars from Googlers and they always give that advice for all Google Cert exams, look for key points that are documented officially.

Question: 26

CertyIQ

Your company has been using a shared facility for data storage and will be migrating to Google Cloud. One of the internal applications uses Linux custom images that need to be migrated.

Which Google Cloud product should you use to maintain the custom images?

- A. App Engine flexible environment
- B. Compute Engine
- C. App Engine standard environment
- D. Google Kubernetes Engine

Answer: B

Explanation:

Reference:

<https://cloud.google.com/compute/docs/images/create-delete-deprecate-private-images>

Question: 27

CertyIQ

Your organization wants to migrate its data management solutions to Google Cloud because it needs to dynamically scale up or down and to run transactional SQL queries against historical data at scale. Which Google Cloud product or service should your organization use?

- A. BigQuery
- B. Cloud Bigtable
- C. Pub/Sub
- D. Cloud Spanner

Answer: D

Explanation:

Answer: D --> Q? states transactional SQL, so its Spanner

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Question: 28

Your organization needs to categorize objects in a large group of static images using machine learning. Which Google Cloud product or service should your organization use?

- A. BigQuery ML
- B. AutoML Video Intelligence
- C. Cloud Vision API
- D. AutoML Tables

Answer: C

Explanation:

Answer C.

Vision API offers powerful pre-trained machine learning models through REST and RPC APIs. Assign labels to images and quickly classify them into millions of predefined categories. Detect objects and faces, read printed and handwritten text, and build valuable metadata into your image catalog.

Reference:

<https://cloud.google.com/vision/automl/docs/create-datasets>

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Question: 29

Your organization runs all its workloads on Compute Engine virtual machine instances. Your organization has a security requirement: the virtual machines are not allowed to access the public internet. The workloads running on those virtual machines need to access BigQuery and Cloud Storage, using their publicly accessible interfaces, without violating the security requirement.

Which Google Cloud product or feature should your organization use?

- A. Identity-Aware Proxy
- B. Cloud NAT (network address translation)
- C. VPC internal load balancers
- D. Private Google Access

Answer: D

Explanation:

The answer is D.

According to the Google Documents >>> By default, when a Compute Engine VM lacks an external IP address assigned to its network interface, it can only send packets to other internal IP address destinations. You can allow these VMs to connect to the set of external IP addresses used by Google APIs and services by enabling Private Google Access on the subnet used by the VM's network interface.

Besides, the security rules say no Internet access while NAT provides internet access.

Google Private Access is like AWS VPC endpoint where you access GCP Public services without using Public Internet.

Question: 30

CertyIQ

Which Google Cloud product is designed to reduce the risks of handling personally identifiable information (PII)?

- A. Cloud Storage
- B. Google Cloud Armor
- C. Cloud Data Loss Prevention
- D. Secret Manager

Answer: C

Explanation:

Reference:

<https://cloud.google.com/blog/products/gcp/take-charge-of-your-sensitive-data-with-the-cloud-dlp-api>

Question: 31

CertyIQ

Your organization is migrating to Google Cloud. As part of that effort, it needs to move terabytes of data from on-premises file servers to Cloud Storage. Your organization wants the migration process to be automated and to be managed by Google. Your organization has an existing Dedicated Interconnect connection that it wants to use. Which Google Cloud product or feature should your organization use?

- A. Storage Transfer Service
- B. Migrate for Anthos
- C. BigQuery Data Transfer Service
- D. Transfer Appliance

Answer: A

Explanation:

Reference:

<https://cloud.google.com/architecture/migration-to-google-cloud-transferring-your-large-datasets>

Where you're moving data from	Scenario	Suggested products
Another cloud provider (for example, Amazon Web Services or Microsoft Azure) to Google Cloud	—	Storage Transfer Service
Cloud Storage to Cloud Storage (two different buckets)	—	Storage Transfer Service
Your private data center to Google Cloud	Enough bandwidth to meet your project deadline for less than 1 TB of data	<code>gsutil</code>
Your private data center to Google Cloud	Enough bandwidth to meet your project deadline for more than 1 TB of data	Storage Transfer Service for on-premises data
Your private data center to Google Cloud	Not enough bandwidth to meet your project deadline	Transfer Appliance

Question: 32

CertyIQ

Your organization needs to analyze data in order to gather insights into its daily operations. You only want to pay for the data you store and the queries you perform. Which Google Cloud product should your organization choose for its data analytics warehouse?

- A. Cloud SQL
- B. Dataproc
- C. Cloud Spanner
- D. BigQuery

Answer: D

Explanation:

D. Analyze data, pay for storage and query. both fit bigquery features.

Question: 33

CertyIQ

Your organization wants to run a container-based application on Google Cloud. This application is expected to increase in complexity. You have a security need for fine-grained control of traffic between the containers. You also have an operational need to exercise fine-grained control over the application's scaling policies. What Google Cloud product or feature should your organization use?

- A. Google Kubernetes Engine cluster
- B. App Engine
- C. Cloud Run
- D. Compute Engine virtual machines

Answer: A

Explanation:

Reference:

<https://cloud.google.com/blog/products/serverless/cloud-run-gets-enterprise-grade-network-security-with-v>

Question: 34

Which Google Cloud product or feature makes specific recommendations based on security risks and compliance violations?

- A. Google Cloud firewalls
- B. Security Command Center
- C. Cloud Deployment Manager
- D. Google Cloud Armor

Answer: B**Explanation:**

Reference:

<https://cloud.google.com/security-command-center>

" target="_blank" style="word-break: break-all;">>

Asset discovery and inventory

Discover and view your assets in near-real time across App Engine, BigQuery, Cloud SQL, Cloud Storage, Compute Engine, Cloud Identity and Access Management, Google Kubernetes Engine, and more. Review historical discovery scans to identify new, modified, or deleted assets.

Threat prevention

Understand the security state of your Google Cloud assets. Uncover common web application vulnerabilities such as cross-site scripting or outdated libraries in your web applications running on App Engine, GKE, and Compute Engine. Quickly resolve misconfigurations by clicking directly on the impacted resource and following the prescribed steps on how to fix it.

Threat detection

Detect threats using logs running in Google Cloud at scale. Detect some of the most common container attacks, including suspicious binary, suspicious library, and reverse shell.

Which Google Cloud product provides a consistent platform for multi-cloud application deployments and extends other Google Cloud services to your organization's environment?

- A. Google Kubernetes Engine
- B. Virtual Public Cloud
- C. Compute Engine
- D. Anthos

Answer: D

Explanation:

Multi cloud migration -> Anthos

CertyIQ

Your organization is developing an application that will manage payments and online bank accounts located around the world. The most critical requirement for your database is that each transaction is handled consistently. Your organization anticipates almost unlimited growth in the amount of data stored.

Which Google Cloud product should your organization choose?

- A. Cloud SQL
- B. Cloud Storage
- C. Firestore
- D. Cloud Spanner

Answer: D

Explanation:

1. CloudSpanner is the correct answer. Firestore is for mobile applications developed from Firebase, GCS is not a Database and Cloud SQL is too simple for this amount of data.
2. Firestore is a NoSQL document database

CertyIQ

Your organization wants an economical solution to store data such as files, graphical images, and videos and to access and share them securely.

Which Google Cloud product or service should your organization use?

- A. Cloud Storage
- B. Cloud SQL
- C. Cloud Spanner
- D. BigQuery

Answer: A

Explanation:

Reference:

<https://www.myamberlife.com/learn/top-ways-to-store-your-digital-files/>

Desktop Storage

Despite many external solutions for digital files, some people still store their photos, videos, and content files on their desktop or laptop. The only problem with this method is that your computer can quickly become cluttered with thousands of files. It slows your prized piece of hardware (computer) down.

When you want to find a digital file you probably *expect* that file to come flying up on your screen in an instant. Yet — anyone who keeps a lot of photos on a computer knows it can take minutes, sometimes hours, to find one — even if you keep it on your desktop. It's just not all that convenient to store things this way. Most importantly, just storing these digital files on a desktop leaves them vulnerable to viruses, damage, or theft. Folks who rely on this also generally don't have a back-up plan.

Question: 38

CertyIQ

Your organization wants to predict the behavior of visitors to its public website. To do that, you have decided to build a machine learning model. Your team has database-related skills but only basic machine learning skills, and would like to use those database skills.

Which Google Cloud product or feature should your organization choose?

- A. BigQuery ML
- B. LookML
- C. TensorFlow
- D. Cloud SQL

Answer: A

Explanation:

Reference:

<https://cloud.google.com/architecture/predicting-customer-propensity-to-buy>

" target="_blank" style="word-break: break-all;">>

Predicting customer propensity to buy by using BigQuery ML and AI Platform

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Learn how to build a system to predict customer propensity to purchase by using BigQuery ML and AI Platform.

You can use a propensity to purchase system to predict customers who are most likely to make a purchase, so that you can personalize communications with them. Use online predictions to take real-time action based on user behavior on your website, or batch predictions to inform less time-sensitive communications like email.

This tutorial shows you how to create a [logistic regression](#) model to determine whether a customer will make a purchase. This type of model is used because it is good for evaluating the probability of an outcome. The model evaluates metrics that reflect customer behavior on a website, and assigns the customer a probability to purchase value between 0 and 1 based on this data. The model then sets a label indicating "likely to purchase" for any customer with a probability

Question: 39

CertyIQ

Your organization needs to restrict access to a Cloud Storage bucket. Only employees who are based in Canada should be allowed to view the contents.

What is the most effective and efficient way to satisfy this requirement?

- A. Deploy the Cloud Storage bucket to a Google Cloud region in Canada
- B. Configure Google Cloud Armor to allow access to the bucket only from IP addresses based in Canada
- C. Give each employee who is based in Canada access to the bucket
- D. Create a group consisting of all Canada-based employees, and give the group access to the bucket

Answer: D

Explanation:

Correct answer is D. Question is tricky, but it says "based" in Canada. That is not the same as restricting access to "from Canada". An employee can for instance be based in Canada, but access the services while on business trip to Singapore.

Question: 40

CertyIQ

Your organization is moving an application to Google Cloud. As part of that effort, it needs to migrate the application's working database from another cloud provider to Cloud SQL. The database runs on the MySQL engine. The migration must cause minimal disruption to users. Data must be secured while in transit. Which should your organization use?

- A. BigQuery Data Transfer Service
- B. MySQL batch insert
- C. Database Migration Service
- D. Cloud Composer

Answer: C

Explanation:

Reference:

<https://aws.amazon.com/dms/>

CertyIQ

Question: 41

Your organization is developing and deploying an application on Google Cloud. Tracking your Google Cloud spending needs to stay as simple as possible.

What should you do to ensure that workloads in the development environment are fully isolated from production workloads?

- A. Apply a unique tag to development resources
- B. Associate the development resources with their own network
- C. Associate the development resources with their own billing account
- D. Put the development resources in their own project

Answer: D

Explanation:

D. Put the development resources in their own project

CertyIQ

Question: 42

Your company is running the majority of its workloads in a co-located data center. The workloads are running on virtual machines (VMs) on top of a hypervisor and use either Linux or Windows server editions. As part of your company's transformation strategy, you need to modernize workloads as much as possible by adopting cloud-native technologies. You need to migrate the workloads into Google Cloud.

What should you do?

- A. Export the VMs into VMDK format, and import them into Compute Engine
- B. Export the VMs into VMDK format, and import them into Google Cloud VMware Engine
- C. Migrate the workloads using Migrate for Compute Engine
- D. Migrate the workloads using Migrate for Anthos

Answer: D

CertyIQ

Question: 43

Your organization is running all its workloads in a private cloud on top of a hypervisor. Your organization has decided it wants to move to Google Cloud as quickly as possible. Your organization wants minimal changes to the current environment, while using the maximum amount of managed services Google offers.

What should your organization do?

- A. Migrate the workloads to Google Cloud VMware Engine
- B. Migrate the workloads to Compute Engine
- C. Migrate the workloads to Bare Metal Solution
- D. Migrate the workloads to Google Kubernetes Engine

Answer: B**Explanation:**

Migrate for Compute Engine enables you to lift and shift workloads at scale to Google Cloud Compute Engine with minimal changes and risk.

Reference:

<https://dataintegration.info/simplify-vm-migrations-with-migrate-for-compute-engine-as-a-service>

" target="_blank" style="word-break: break-all;">>

Customers across industries are [migrating applications](#) at scale to the cloud. Migrate for Compute Engine enables you to lift and shift workloads at scale to Google Cloud Compute Engine with minimal changes and risk. Recently, we delivered our latest release of [Migrate for Compute Engine](#) – Version 5 or V5. This version delivers a Google-managed cloud service that enables simple, frictionless, and large-scale enterprise migrations of virtual machines to Google Compute Engine with minimal downtime and risk. API-driven and integrated into your Google Cloud console for ease of use, this service uses agent-less replication to copy data without manual intervention and without VPN requirements. It also enables you to launch non-disruptive validations of your VMs prior to cutover. Rapidly migrate a single application or execute a sprint with hundred systems using migration groups with confidence.

Question: 44**CertyIQ**

Your organization is releasing its first publicly available application in Google Cloud. The application is critical to your business and customers and requires a 2-hour SLA.

How should your organization set up support to minimize costs?

- A. Enroll in Premium Support
- B. Enroll in Enhanced Support
- C. Enroll in Standard Support
- D. Enroll in Basic Support

Answer: B**Explanation:**

Reference:

<https://www.secureauth.com/enhanced-support-offering/>

" target="_blank" style="word-break: break-all;">>

SecureAuth is dedicated to providing the **industry-leading** enhanced **support** ensuring the long term success of your SecureAuth SaaS IAM deployment.

While our basic support offers industry leading coverage and response times for some customers, SecureAuth protects critical applications meaning delays and extended downtime is simply not an option. For these customers our **Enhanced Support** offerings provide **24*7 coverage** and the most responsive and **complete SLA's** available.

That's why we offer three different levels of support, so you can choose the level of support that best works for your needs.

Question: 45

CertyIQ

Your organization offers public mobile apps and websites. You want to migrate to a Google Cloud-based solution for checking and maintaining your users' usernames and passwords and controlling their access to different resources based on their identity.

Which should your organization choose?

- A. VPN tunnels
- B. Identity Platform
- C. Compute Engine firewall rules
- D. Private Google Access

Answer: B

Explanation:

An identity platform is a modern solution for managing the identities of users and devices in a centralized fashion.

Reference:

<https://www.okta.com/blog/2021/07/what-is-an-identity-platform/#:~:text=An%20identity%20platform%20is%20a,%2C%20integrations%2C%20and%20platform%20services>

An identity platform is a modern solution for managing the identities of users and devices in a centralized fashion. It enables organizations to securely authorize workforce and customer users to access their ecosystem using access management tools, programmable components, integrations, and platform services.

Today's organizations have a wide range of identity requirements. As they expand, embrace new innovations, and meet new customer demands, they need an identity solution that can grow with them. And as they grow, these organizations are also looking for offerings that centralize and consolidate identity, reducing the need for multiple access management, governance, and authentication products that don't necessarily talk to each other.

In short, although the concept of identity platforms is still new, the growth of disruptive technologies and highly personalized products and services has made a platform approach the key for effectively unifying identity management. But how did we get here?

Question: 46

CertyIQ

Which Google Cloud service or feature lets you build machine learning models using Standard SQL and data in a data warehouse?

- A. BigQuery ML
- B. TensorFlow
- C. AutoML Tables
- D. Cloud Bigtable ML

Answer: A

Explanation:

BigQuery ML lets you create and execute machine learning models in BigQuery using standard SQL queries.

Reference:

<https://cloud.google.com/bigquery-ml/docs/introduction#:~:text=BigQuery%20ML%20lets%20you%20create,the%20need%20to%20move%20data>

" target="_blank" style="word-break: break-all;">>

What is BigQuery ML?

[Send feedback](#)

BigQuery ML lets you create and execute machine learning models in BigQuery using standard SQL queries. BigQuery ML democratizes machine learning by letting SQL practitioners build models using existing SQL tools and skills. BigQuery ML increases development speed by eliminating the need to move data.

BigQuery ML functionality is available by using:

- The Google Cloud Console
- The `bq` command-line tool
- The BigQuery REST API
- An external tool such as a Jupyter notebook or business intelligence platform

Question: 47

CertyIQ

Your organization runs an application on virtual machines in Google Cloud. This application processes incoming images. This activity takes hours to create a result for each image. The workload for this application normally stays at a certain baseline level, but at regular intervals it spikes to a much greater workload. Your organization needs to control the cost to run this application. What should your organization do?

- A. Purchase committed use discounts for the baseline load
- B. Purchase committed use discounts for the expected spike load
- C. Leverage sustained use discounts for your virtual machines
- D. Run the workload on preemptible VM instances

Answer: C**Explanation:**

The idea of the Sustained Use discount is that the longer you run a VM instance in any given month, the bigger discount you will get from the list price.

Reference:

<https://www.parkmycloud.com/blog/google-sustained-use-discounts/>

" target="_blank" style="word-break: break-all;">>

price. The following shows the incremental discount, and its impact on a hypothetical \$100/month VM instance, where the are against the baseline 730-hour month.

Usage level		Hours usage before price break	discount	Base cost/mo	
From	To			\$ 100.00	\$ 25.00
0%	25%	-	0%	\$ 100.00	\$ 25.00
25%	50%	182.5	20%	\$ 20.00	\$ 20.00
50%	75%	365.0	40%	\$ 15.00	\$ 15.00
75%	100%	547.5	60%	\$ 10.00	\$ 10.00
			Net cost	\$ 70.00	

Question: 48

CertyIQ

Your organization is developing a plan for migrating to Google Cloud. What is a best practice when initially configuring your Google Cloud environment?

- A. Create a project via Google Cloud Console per department in your company
- B. Define your resource hierarchy with an organization node on top

- C. Create projects based on team members' requests
- D. Make every member of your company the project owner

Answer: B

Explanation:

- B. Define your resource hierarchy with an organization node on top

Question: 49

CertyIQ

Your organization runs many workloads in different Google Cloud projects, each linked to the same billing account. Each project's workload costs can vary from month to month, but the overall combined cost of all projects is relatively stable. Your organization needs to optimize its cost.

What should your organization do?

- A. Purchase a commitment per project for each project's usual minimum
- B. Create a billing account per project, and link each project to a different billing account
- C. Turn on committed use discount sharing, and create a commitment for the combined usage
- D. Move all workloads from all different projects into one single consolidated project

Answer: C

Explanation:

Reference:

<https://cloud.google.com/compute/docs/instances/signing-up-committed-use-discounts>

Question: 50

CertyIQ

How should a multinational organization that is migrating to Google Cloud consider security and privacy regulations to ensure that it is in compliance with global standards?

- A. Comply with data security and privacy regulations in each geographical region
- B. Comply with regional standards for data security and privacy, because they supersede all international regulations
- C. Comply with international standards for data security and privacy, because they supersede all regional regulations
- D. Comply with regional data security regulations, because they're more complex than privacy standards

Answer: A

Explanation:

Answered A. For a multi-national corporation, they need to abide not just by international laws, but also regional laws where they do business.

I'd be curious as to how this site justifies C instead. You cannot simply ignore a regional law (say in New York or California) just cause an international law (say GDPR in Europe) says something different.

Question: 51

CertyIQ

Your organization wants to optimize its use of Google Cloud's discounts on virtual machine-based workloads. You plan to use 200 CPUs constantly for the next 3 years, and you forecast that spikes of up to 300 CPUs will occur approximately 30% of the time. What should you choose?

- A. 1-year committed use discount for 200 CPUs
- B. 3-year committed use discount for 300 CPUs
- C. 3-year committed use discount for 200 CPUs
- D. Regular pay-as-you-go pricing

Answer: C**Explanation:**

Reference:

<https://cloud.google.com/compute/all-pricing>**Question: 52**

CertyIQ

Your organization needs to minimize how much it pays for data traffic from the Google network to the internet. What should your organization do?

- A. Choose the Standard network service tier.
- B. Choose the Premium network service tier.
- C. Deploy Cloud VPN.
- D. Deploy Cloud NAT.

Answer: A**Explanation:**

C & D are mechanisms , Use premium tier for performance and standard tier for cost optimizations.

A has a direct impact on minimizing cost. See:

<https://cloud.google.com/blog/products/networking/networking-cost-optimization-best-practices>

Per that article answer C does not fit, see this excerpt:

If you push large amounts of data (think TBs/PBs) on a consistent basis, it can be cheaper to establish a dedicated connection vs. accruing costs associated with your traffic traversing the public internet or using a VPN.

Therefore the VPN does not minimize traffic, for such a case, you would want to use a dedicated partner connection.

Question: 53

CertyIQ

Your organization wants to migrate your on-premises environment to Google Cloud. The on-premises environment consists of containers and virtual machine instances. Which Google Cloud products can help to migrate the container images and the virtual machine disks?

- A. Compute Engine and Filestore

- B. Artifact Registry and Cloud Storage
- C. Dataflow and BigQuery
- D. Pub/Sub and Cloud Storage

Answer: B

Explanation:

Cloud storage can be used for copying virtual machine images from the cloud to on-premises locations or to import a virtual machine image from an on-premises location to the cloud image library. In addition, cloud storage can be used to move virtual machine images between user accounts or between data centers

Artifact Registry is a single place for your organization to manage container images and language packages

Question: 54

CertyIQ

Your company security team manages access control to production systems using an LDAP directory group. How is this access control managed in the Google Cloud production project?

- A. Assign the proper role to the Service Account in the project's IAM Policy
- B. Grant each user the roles/iam.serviceAccountUser role on a service account that exists in the Google Group.
- C. Assign the proper role to the Google Group in the project's IAM Policy.
- D. Create the project in a folder with the same name as the LDAP directory group.

Answer: C

Explanation:

Reference:

<https://cloud.google.com/blog/products/identity-security/achieving-identity-and-access-governance-on-google-cloud>

Question: 55

CertyIQ

Your organization wants to be sure that expenditures on cloud services are in line with the budget. Which two Google Cloud cost management features help your organization gain greater visibility into its cloud resource costs? (Choose two.)

- A. Billing dashboards
- B. Resource labels
- C. Sustained use discounts
- D. Financial governance policies
- E. Payments profile

Answer: AB

Explanation:

Financial governance policies are not related to cost visualization

Question: 56

Your organization needs to process large amounts of data from an online application that operates continuously. You do not want to be required to provision infrastructure or create server clusters. What should your organization choose?

- A. Compute Engine with BigQuery
- B. Dataproc
- C. Google Kubernetes Engine with Cloud Bigtable
- D. Dataflow

Answer: D**Explanation:**

"You do not want to be required to provision infrastructure or create server clusters".

Question: 57

Your organization needs to ensure that the Google Cloud resources of each of your departments are segregated from one another. Each department has several environments of its own: development, testing, and production. Which strategy should your organization choose?

- A. Create a project per department, and create a folder per environment in each project.
- B. Create a folder per department, and create a project per environment in each folder.
- C. Create a Cloud Identity domain per department, and create a project per environment in each domain.
- D. Create a Cloud Identity domain per environment, and create a project per department in each domain.

Answer: B**Explanation:**

B. Create a folder per department, and create a project per environment in each folder.

<https://cloud.google.com/resource-manager/docs/cloud-platform-resource-hierarchy>

Question: 58

Your organization is defining the resource hierarchy for its new application in Google Cloud. You need separate development and production environments. The production environment will be deployed in Compute Engine in two regions. Which structure should your organization choose?

- A. Create a single project for all environments. Use labels to segregate resources by environment.
- B. Create a single project for all environments. Use tags to segregate resources by environment.
- C. Create one project for the development environment and one project for the production environment.
- D. Create two projects for the development environment and two projects for the production environment (one for each region).

Answer: C**Explanation:**

Reference:

<https://cloud.google.com/resource-manager/docs/creating-managing-projects>

Thank you

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