

1.You are developing a new web application that will be deployed on Google Cloud Platform. As part of your release cycle, you want to test updates to your application on a small portion of real user traffic. The majority of the users should still be directed towards a stable version of your application. What should you do?

Ans)Deploy me application on App Engine For each update, create a new version of the same service Configure traffic splitting to send a small percentage of traffic to the new version

2.You want to select and configure a solution for storing and archiving data on Google Cloud Platform. You need to support compliance objectives for data from one geographic location. This data is archived after 30 days and needs to be accessed annually. What should you do?

Ans)Select Regional Storage. Add a bucket lifecycle rule that archives data after 30 days to Coldline Storage.

3.Your organization has a dedicated person who creates and manages all service accounts for Google Cloud projects. You need to assign this person the minimum role for projects. What should you do?

Ans)Add the user to roles/iam.serviceAccountAdmin role.

4. You manage an App Engine Service that aggregates and visualizes data from BigQuery. The application is deployed with the default App Engine Service account. The data that needs to be visualized resides in a different project managed by another team. You do not have access to this project, but you want your application to be able to read data from the BigQuery dataset. What should you do?

Ans) Ask the other team to grant your default App Engine Service account the role of BigQuery Data Viewer

5.You have a Compute Engine instance hosting an application used between 9 AM and 6 PM on weekdays. You want to back up this instance daily for disaster recovery purposes. You want to keep the backups for 30 days. You want the Google-recommended solution with the least management overhead and the least number of services. What should you do?

Ans)1. In the Cloud Console, go to the Compute Engine Disks page and select your instance's disk.

2. In the Snapshot Schedule section, select Create Schedule and configure the following parameters: - Schedule frequency: Daily - Start time: 1:00 AM 2:00 AM - Autodelete snapshots after: 30 days

6.Your Dataproc cluster runs in a single Virtual Private Cloud (VPC) network in a single subnet with range 172.16.20.128/25. There are no private IP addresses available in the VPC network. You want to add new VMs to communicate with your cluster using the minimum number of steps. What should you do?

Ans)A. Modify the existing subnet range to 172.16.20.0/24.

7.You need to manage a third-party application that will run on a Compute Engine instance. Other Compute Engine instances are already running with default configuration. Application installation files are hosted on Cloud Storage. You need to access these files from the new instance without allowing other virtual machines (VMs) to access these files. What should you do?

Ans)Create a new service account and assign this service account to the new instance Grant the service account permissions on Cloud Storage

8.You need to immediately change the storage class of an existing Google Cloud bucket. You need to reduce service cost for infrequently accessed files stored in that bucket and for all files that will be added to that bucket in the future. What should you do?

Ans)Use the gsutil to rewrite the storage class for the bucket. Set up Object Lifecycle management on the bucket

9.An employee was terminated, but their access to Google Cloud Platform (GCP) was not removed until 2 weeks later. You need to find out this employee accessed any sensitive customer information after their termination. What should you do?

Ans)View Data Access audit logs in Stackdriver. Search for the user's email as the principal.

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11. You have a web application deployed as a managed instance group. You have a new version of the application to gradually deploy. Your web application is currently receiving live web traffic. You want to ensure that the available capacity does not decrease during the deployment. What should you do?

Ans) Perform a rolling-action start-update with maxSurge set to 1 and maxUnavailable set to 0.

12. You are managing several Google Cloud Platform (GCP) projects and need access to all logs for the past 60 days. You want to be able to explore and quickly analyze the log contents. You want to follow Google-recommended practices to obtain the combined logs for all projects. What should you do?

Ans) Create a Stackdriver Logging Export with a Sink destination to a BigQuery dataset. Configure the table expiration to 60 days.

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14. You are building an application that processes data files uploaded from thousands of suppliers. Your primary goals for the application are data security and the expiration of aged data. You need to design the application to:

- * Restrict access so that suppliers can access only their own data.

- * Give suppliers write access to data only for 30 minutes.

- * Delete data that is over 45 days old.

You have a very short development cycle, and you need to make sure that the application requires minimal maintenance. Which two strategies should you use? (Choose two.)

Ans) 1. Build a lifecycle policy to delete Cloud Storage objects after 45 days.

2. Use signed URLs to allow suppliers limited time access to store their objects.

15. Your company has a single sign-on (SSO) identity provider that supports Security Assertion Markup Language (SAML) integration with service providers. Your company has users in Cloud Identity. You would like users to authenticate using your company's SSO provider. What should you do?

Ans) In Cloud Identity, set up SSO with a third-party identity provider with Google as a service provider.

16. You want to find out when users were added to Cloud Spanner Identity Access Management (IAM) roles on your Google Cloud Platform (GCP) project. What should you do in the GCP Console?

Ans) Go to the Stackdriver Logging console, review admin activity logs, and filter them for Cloud Spanner IAM roles.

17. You are running multiple microservices in a Kubernetes Engine cluster. One microservice is rendering images. The microservice responsible for the image rendering requires a large amount of CPU time compared to the memory it requires. The other microservices are workloads that are optimized for n1-standard machine types. You need to optimize your cluster so that all workloads are using resources as efficiently as possible. What should you do?

Ans) Create a node pool with compute-optimized machine type nodes for the image rendering microservice. Use the node pool with general-purpose machine type nodes for the other microservices.

18. You are building an application that stores relational data from users. Users across the globe will use this application. Your CTO is concerned about the scaling requirements because the size of the user base is unknown. You need to implement a database solution that can scale with your user growth with minimum configuration changes. Which storage solution should you use?

Ans) Cloud Spanner

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22. You are building an application that will run in your data center. The application will use Google Cloud Platform (GCP) services like AutoML. You created a service account that has appropriate access to AutoML. You need to enable authentication to the APIs from your on-premises environment. What should you do?

Ans) Use gcloud to create a key file for the service account that has appropriate permissions.

23. Your company uses BigQuery for data warehousing. Over time, many different business units in your company have created 1000+ datasets across hundreds of projects. Your CIO wants you to examine all datasets to find tables that contain an employee_ssn column. You want to minimize effort in performing this task. What should you do?

Ans) Go to Data Catalog and search for employee_ssn in the search box

24. Your company has workloads running on Compute Engine and on-premises. The Google Cloud Virtual Private Network (VPC) is connected to your WAN over a Virtual Private Network (VPN). You need to deploy a new Compute Engine instance and ensure that no public Internet traffic can be routed to it. What should you do?

Ans) Create the instance without a public IP address.

25. Your company has an internal application for managing transactional orders. The application is used exclusively by employees in a single physical location. The application requires strong consistency, fast queries, and ACID guarantees for multi-table transactional updates. The first version of the application is implemented in PostgreSQL, and you want to deploy it to the cloud with minimal code changes. Which database is most appropriate for this application?

Ans) Cloud SQL

26. You are building a product on top of Google Kubernetes Engine (GKE). You have a single GKE cluster. For each of your customers, a Pod is running in that cluster, and your customers can run arbitrary code inside their Pod. You want to maximize the isolation between your customers' Pods. What should you do?

Ans) Create a GKE node pool with a sandbox type configured to gvisor. Add the parameter runtimeClassName: gvisor to the specification of your customers' Pods.

27. You need to host an application on a Compute Engine instance in a project shared with other teams. You want to prevent the other teams from accidentally causing downtime on that application. Which feature should you use?

Ans) Enable deletion protection on the instance.

28. You are hosting an application from Compute Engine virtual machines (VMs) in us-central1-a. You want to adjust your design to support the failure of a single Compute Engine zone, eliminate downtime, and minimize cost. What should you do?

Ans) Create Compute Engine resources in us-central1-b. Balance the load across both us-central1-a and us-central1-b.

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30. You need to reduce GCP service costs for a division of your company using the fewest possible steps. You need to turn off all configured services in an existing GCP project. What should you do?

Ans) 1. Verify that you are assigned the Project Owners IAM role for this project.

2. Locate the project in the GCP console, click Shut down and then enter the project ID.

31. You have a Compute Engine instance hosting a production application. You want to receive an email if the instance consumes more than 90% of its CPU resources for more than 15 minutes. You want to use Google services. What should you do?

Ans) 1. Create a Stackdriver Workspace, and associate your Google Cloud Platform (GCP) project with it.

2. Create an Alerting Policy in Stackdriver that uses the threshold as a trigger condition.

3. Configure your email address in the notification channel.

32. You have been asked to create robust Virtual Private Network (VPN) connectivity between a new Virtual Private Cloud (VPC) and a remote site. Key requirements include dynamic routing, a shared address space of 10.19.0.1/22, and no overprovisioning of tunnels during a failover event. You want to follow Google-recommended practices to set up a high availability Cloud VPN. What should you do?

Ans) Use an automatic mode VPC network, use Cloud Router border gateway protocol (BGP) routes and configure policy-based routing

33. You have a website hosted on App Engine standard environment. You want 1% of your users to see a new test version of the website. You want to minimize complexity. What should you do?

Ans) Deploy the new version in the same application and use the --splits option to give a weight of 99 to the current version and a weight of 1 to the new version.

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35. Your organization has three existing Google Cloud projects. You need to bill the Marketing department for only their Google Cloud services for a new initiative within their group. What should you do?

Ans) 1. Verify that you are assigned the Billing Administrator IAM role for your organization's Google Cloud Project for the Marketing department

2. Link the new project to a Marketing Billing Account

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37. Your organization has user identities in Active Directory. Your organization wants to use Active Directory as their source of truth for identities. Your organization wants to have full control over the Google accounts used by employees for all Google services, including your Google Cloud Platform (GCP) organization. What should you do?

Ans) Use Google Cloud Directory Sync (GCDS) to synchronize users into Cloud Identity.

38. You have an application that receives SSL-encrypted TCP traffic on port 443. Clients for this application are located all over the world. You want to minimize latency for the clients. Which load balancing option should you use?

Ans) SSL Proxy Load Balancer

39. The sales team has a project named Sales Data Digest that has the ID acme-data-digest. You need to set up similar Google Cloud resources for the marketing team but their resources must be organized independently of the sales team. What should you do?

Ans) Create another project with the ID acme-marketing-data-digest for the Marketing team and deploy the resources there

40. You have an application running in Google Kubernetes Engine (GKE) with cluster autoscaling enabled. The application exposes a TCP endpoint. There are several replicas of this application. You have a Compute Engine instance in the same region, but in another Virtual Private Cloud (VPC), called gos-network, that has no overlapping IP ranges with the first VPC. This instance needs to connect to the

application on GKE You want to minimize effort. What should you do?

- Ans)1. In GKE, create a Service of type LoadBalancer that uses the application's Pods as backend.
2. Add an annotation to this service: cloud.google.com/load-balancer-type: Internal
3. Peer the two VPCs together.
4. Configure the Compute Engine instance to use the address of the load balancer that has been created.

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42. Your company developed a mobile game that is deployed on Google Cloud. Gamers are connecting to the game with their personal phones over the Internet. The game sends UDP packets to update the servers about the gamers' actions while they are playing in multiplayer mode. Your game backend can scale over multiple virtual machines (VMs), and you want to expose the VMs over a single IP address. What should you do?

Ans) Configure an External Network load balancer in front of the application servers.

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44. You are developing a financial trading application that will be used globally. Data is stored and queried using a relational structure, and clients from all over the world should get the exact identical state of the data. The application will be deployed in multiple regions to provide the lowest latency to end users. You need to select a storage option for the application data while minimizing latency. What should you do?

Ans) Use Cloud Spanner for data storage.

45. doubt

46. Your company has embraced a hybrid cloud strategy where some of the applications are deployed on Google Cloud. A Virtual Private Network (VPN) tunnel connects your Virtual Private Cloud (VPC) in Google Cloud with your company's on-premises network. Multiple applications in Google Cloud need to connect to an on-premises database server, and you want to avoid having to change the IP configuration in all of your applications when the IP of the database changes.

What should you do?

Ans) Create a private zone on Cloud DNS, and configure the applications with the DNS name.

47. Your company wants to standardize the creation and management of multiple Google Cloud resources using Infrastructure as Code. You want to minimize the amount of repetitive code needed to manage the environment. What should you do?

Ans) Develop templates for the environment using Cloud Deployment Manager.

48. You are performing a monthly security check of your Google Cloud environment and want to know who has access to view data stored in your Google CloudProject. What should you do?

Ans) Review the IAM permissions for any role that allows for data access.

49. Your auditor wants to view your organization's use of data in Google Cloud. The auditor is most interested in auditing who accessed data in Cloud Storage buckets. You need to help the auditor access the data they need. What should you do?

Ans) Turn on Data Access Logs for the buckets they want to audit, and then build a query in the log viewer that filters on Cloud Storage.

50. You received a JSON file that contained a private key of a Service Account in order to get access to several resources in a Google Cloud project. You downloaded and installed the Cloud SDK and want to use this private key for authentication and authorization when performing gcloud commands. What should

you do?

Ans) Use the command `gcloud auth activate-service-account` and point it to the private key.