1.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 X**

- D. Select a private cloud provider that is only active in the required geographic area

2. 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 X**

- D. Purchase multiple physical computers and scale workload across them

3. 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 X**

- 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

4. 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 X**

- 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

5. 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 X**

6. 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 X**

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

- D. In multiple regions, using multiple zones per region

7. 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** **X**

- B. Infrastructure architecture

- C. Infrastructure deployment automation

- **D. Hardware capacity management** **X**

- E. Fixing application security issues

8. 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** **X**

- 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

9. 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** **X**

- 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

10. 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 X**

- 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

11. 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 X**

- D. Enable Private Google Access in your Google Cloud VPC network

12. 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 X**

- C. Store the images in Cloud Storage

- D. Create a Compute Engine disk containing the application

13. 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 X**

- 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

14. 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 X**

- C. Increase the resources of your VMs

- D. Automate your upgrade rollouts

15. 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 X**

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ﾑ€™ services on-premises together with your existing services.

- **B. Host all your subsidiariesﾑ€™ services together with your existing services on the public cloud. X**

- **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.

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. X

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

- **A. Public cloud X**

- **B.** Containers

- **C.** Private cloud

- **D.** Microservices

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19. 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 X**

- **C.** App Engine flexible environment

- **D.** Compute Engine

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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 X**

21. 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 X**

- **C.** Data Catalog

- **D.** Dataprep by Trifacta

22. 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 X**

- **D.** Cloud Deployment Manager

23. 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 X**

- **C.** Google Cloud Armor

- **D.** Security Command Center

24. 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 X**

- **D.** Cloud CDN

25. 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 X**

- **C.** Cloud Functions

- **D.** App Engine

26. 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 X**

- **C.** App Engine standard environment

- **D.** Google Kubernetes Engine

27. 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 X**

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 X**

- **D.** AutoML Tables

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) X**

- **C.** VPC internal load balancers

- **D.** Private Google Access

30. 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 X**

- **D.** Secret Manager

31. 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 X**

- B. Migrate for Anthos

- C. BigQuery Data Transfer Service

- D. Transfer Appliance

32. 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 X**

33. 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 X**
- B. App Engine
- C. Cloud Run
- D. Compute Engine virtual machines

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 X**
- C. Cloud Deployment Manager
- D. Google Cloud Armor

35. 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 X**

36. 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 X**

37. 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 X**

- B. Cloud SQL

- C. Cloud Spanner

- D. BigQuery

38. 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 X**

- B. LookML

- C. TensorFlow

- D. Cloud SQL

39. 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 X**

40. 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 X**

- D. Cloud Composer

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 X**

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 X**

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 X**

- C. Migrate the workloads to Bare Metal Solution

- D. Migrate the workloads to Google Kubernetes Engine

44. 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 X**

- C. Enroll in Standard Support

- D. Enroll in Basic Support

45. 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 X**

- C. Compute Engine firewall rules

- D. Private Google Access

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

- A. **BigQuery ML** X

- B. TensorFlow

- C. AutoML Tables

- D. Cloud Bigtable ML

47. 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** X

- D. Run the workload on preemptible VM instances

48. 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** X

- C. Create projects based on team members' requests

- D. Make every member of your company the project owner

49. 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 X**

- D. Move all workloads from all different projects into one single consolidated project

50. 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 X**

- 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

51. 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 X**

- D. Regular pay-as-you-go pricing

52. 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. X**

- B. Choose the Premium network service tier.

- C. Deploy Cloud VPN.

- D. Deploy Cloud NAT.

53. 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 X**

- C. Dataflow and BigQuery

- D. Pub/Sub and Cloud Storage

54. 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. X**

- D. Create the project in a folder with the same name as the LDAP directory group.

55. Your organization wants to be sure that is 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 X**

- **B. Resource labels X**

- C. Sustained use discounts

- D. Financial governance policies

- E. Payments profile

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 X**

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. X**

- 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.

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. X**

- D. Create two projects for the development environment and two projects for the production environment (one for each region).

59. Your organization meant to purchase a 3-year Committed Use Discount, but accidentally purchased a 1-year Committed Use Discount instead. What should your organization do?

- A. Contact your financial institution.

- B. Contact Trust and Safety.

- **C. Contact Cloud Billing Support. X**

- D. Contact Technical Support.

60. Your organization needs to allow a production job to have access to a BigQuery dataset. The production job is running on a Compute Engine instance that is part of an instance group.
What should be included in the IAM Policy on the BigQuery dataset?

- A. The Compute Engine instance group

- B. The project that owns the Compute Engine instance

- **C. The Compute Engine service account X**

- D. The Compute Engine instance

61. Your team is publishing research results and needs to make large amounts of data available to other researchers within the professional community and the public at minimum cost.
How should you host the data?

- **A. Use a Cloud Storage bucket and enable ג€Requester Pays.ג€ X**

- B. Use a Cloud Storage bucket and provide Signed URLs for the data files.

- C. Use a Cloud Storage bucket and set up a Cloud Interconnect connection to allow access to the data.

- D. Host the data on-premises, and set up a Cloud Interconnect connection to allow access to the data.

62. Your company needs to segment Google Cloud resources used by each team from the others. The teams' efforts are changing frequently, and you need to reduce operational risk and maintain cost visibility. Which approach does Google recommend?

- A. One project per team.

- B. One organization per team.

- C. One project that contains all of each team's resources.

- D. **One top-level folder per team. X**

63. How do Migrate for Compute Engine and Migrate for Anthos differ?

- A. Unlike Migrate for Anthos, Migrate for Compute Engine assumes that the migration source is VMware vSphere.

- B. Migrate for Compute Engine charges for ingress, but Migrate for Anthos does not.

- C. Migrate for Compute Engine is closed source, and Migrate for Anthos is open source.

- **D. Migrate for Anthos migrates to containers, and Migrate for Compute Engine migrates to virtual machines. X**

64. Your large and frequently changing organization's user information is stored in an on-premises LDAP database. The database includes user passwords and group and organization membership.
How should your organization provision Google accounts and groups to access Google Cloud resources?

- A. Replicate the LDAP infrastructure on Compute Engine

- B. Use the Firebase Authentication REST API to create users

- **C. Use Google Cloud Directory Sync to create users X**

- D. Use the Identity Platform REST API to create users

65. Your organization recently migrated its compute workloads to Google Cloud. You want these workloads in Google Cloud to privately and securely access your large volume of on-premises data, and you also want to minimize latency.
What should your organization do?

- A. Use Storage Transfer Service to securely make your data available to Google Cloud

- **B. Create a VPC between your on-premises data center and your Google resources X**

- C. Peer your on-premises data center to Google's Edge Network

- D. Use Transfer Appliance to securely make your data available to Google Cloud

66. Your organization consists of many teams. Each team has many Google Cloud projects. Your organization wants to simplify the management of identity and access policies for these projects.
How can you group these projects to meet this goal?

- A. Group each team's projects into a separate domain

- B. Assign labels based on the virtual machines that are part of each team's projects

- **C. Use folders to group each team's projects X**

- D. Group each team's projects into a separate organization node

67. An organization needs to categorize text-based customer reviews on their website using a pre-trained machine learning model.
Which Google Cloud product or service should the organization use?

- **A. Cloud Natural Language API X**

- B. Dialogflow

- C. Recommendations AI

- D. TensorFlow

68. An organization is planning its cloud expenditure.
What should the organization do to control costs?

- A. Consider cloud resource costs as capital expenditure in annual planning.

- B. Use only cloud resources; they have no cloud infrastructure costs.

- C. **Review cloud resource costs frequently because costs depend on usage. X**

- D. Assess cloud resources costs only when SLO is not met by their cloud provider.

69. An organization is searching for an open-source machine learning platform to build and deploy their own custom machine learning applications using TPUs.
Which Google Cloud product or service should the organization use?

- **A. TensorFlow X**

- B. BigQuery ML

- C. Vision API

- D. AutoML Vision

70. What is an example of unstructured data that organizations can capture from social media?

- **A. Post comments X**

- B. Tagging

- C. Profile picture

- D. Location

71. An organization relies on online seasonal sales for the majority of their annual revenue.
How should the organization use App Engine for their customer app?

- A. Automatically adjusts physical inventory in real time

- **B. Autoscales during peaks in demand X**

- C. Runs maintenance during seasonal sales

- D. Recommends the right products to customers

72. An organization is using machine learning to make predictions. One of their datasets mistakenly includes mislabeled data.
How will the prediction be impacted?

- A. Increased risk of privacy leaks

- **B. Increased risk of inaccuracy X**

- C. Decreased model compatibility

- D. Decreased model training time

73. A global organization is developing an application to manage payments and online bank accounts in multiple regions. Each transaction must be handled consistently in their database, and they anticipate almost unlimited growth in the amount of data stored.
Which Google Cloud product should the organization choose?

- A. Cloud SQL

- **B. Cloud Spanner X**

- C. Cloud Storage

- D. BigQuery

74. An organization has servers running mission-critical workloads on-premises around the world. They want to modernize their infrastructure with a multi-cloud architecture.
What benefit could the organization experience?

- A. Ability to disable regional network connectivity during cyber attacks

- B. Ability to keep backups of their data on-premises in case of failure

- C. Full management access to their regional infrastructure

- **D. Reduced likelihood of system failure during high demand events X**

75. An organization needs to run frequent updates for their business app.
Why should the organization use Google Kubernetes Engine (GKE)?

- A. Customer expectations can be adjusted without using marketing tools

- **B. Seamless changes can be made without causing any application downtime. X**

- C. GKE handles version control seamlessly and out of the box

- D. GKE is well suited for all monolithic applications

76.

190. An organization is looking for a hybrid-cloud management solution that will help them build and run applications on-premises and in the cloud.
What solution should the organization use?

- **A. Anthos X**

- B. Cloud Functions

- C. App Engine

- D. Compute Engine

191. An organization with a commissions-based business model is struggling to predict cloud costs due to fluctuating revenue.
How can the organization optimize the use of their cloud resources?

- **A. By applying intelligent recommendations X**

- B. By decentralizing financial decision making

- C. By sharing project ownership across all teams

- D. By increasing their capital expenditure

192. What DevOps practice should an organization use when developing their application to help minimize disruption caused by bugs?

- A. Pause production until all bugs have been eliminated
- B. Prioritize fixing large bugs during production because they are easier to review
- **C. Implement small changes incrementally to reduce recovery time when bugs appear X**
- D. Implement large changes together to make rolling back easier when bugs appear

193. An organization has been struggling to make operations more efficient.
What site reliability engineering (SRE) best practice should the organization follow to increase efficiency?

- A. Decrease over-reliance on data to make decisions.

- B. Assign exclusive production ownership to developers.

- C. Spend less time measuring outage impact.

- **D. Focus on increasing toil automation. X**

194. An organization wants to ingest custom log data from GKE environments, virtual machines, and Google Cloud services.
Which Google Cloud tool should the organization use?

- A. Dialogflow

- **B. Cloud Logging X**

- C. Cloud SDK

- D. Data Catalog

195. What makes Google Kubernetes Engine (GKE) an effective solution for developers working to resolve application errors?

- **A. It reduces the time needed to iterate on various solutions. X**

- B. It provides intelligent recommendations to optimize application development.

- C. It removes the need for containerizing applications.

- D. It stores application code on multiple servers to facilitate collaboration across silos.

196. What is an organization responsible for when migrating from on-premises to the cloud?

- A. Covering the cost of cloud service downtime

- B. Managing underlying network infrastructure

- **C. Adapting to a pay-as-you-go cloud expenditure model X**

- D. Optimizing cloud storage systems

198. An organization wants to duplicate critical system components to enhance reliability and mitigate single points of failure. Which design consideration should the organization use?

- **A. Redundancy X**

- B. Backups

- C. Latency

- D. Security

199. An organization is running SQL Server on-premises and is struggling with capacity and management overhead. They want to modernize this database quickly by using Google products or services. What should the organization do?

- A. Refactor applications to use a cloud first database like Firestore.

- B. **Perform a managed database migration to Cloud SQL. X**

- C. Export old tables from SQL Server to Cloud Storage.

- D. Migrate all SQL Server data to BigQuery.

200. What is a benefit of the OpEx model for cloud security?

- **A. Organizations do not need to make upfront capital investments in cloud security. X**

- B. Organizations can deploy custom security hardware.

- C. Organizations do not need to configure any security settings for cloud resources.

- D. The cloud provider guarantees security.

201. What is the benefit of using a serverless data processing pipeline service?

- A. Full control over compute resources is provided.

- B. Processed data will not require analysis.

- **C. Pipeline infrastructure is fully managed and scalable. X**

- D. Processed data is guaranteed to be free of errors.

202. What does the shift toward cloud computing represent for an organization's transformation?

- An opportunity that is limited to large enterprises
- **An opportunity to redefine existing business processes and services X**
- An opportunity that is only relevant to the IT department

- An opportunity to continue business as usual with new cost savings

203. An organization is concerned about the unlikely event that Google Cloud infrastructure is physically accessed by someone with malicious intent. How is data protected in Google Cloud?

- A. Data is immediately deleted whenever an intrusion is detected.

- B. Data is stored on quantum computers with unbreakable encryption.

- **C. Data is stored using robust encryption. X**

- D. Data is stored in random locations around the world to prevent it being found.

204. An organization needs a flexible and scalable NoSQL database with strong web and mobile application support. Which Google Cloud product or service should the organization use?

- A. Cloud Spanner

- B. Cloud Storage

- C. BigQuery

- **D. Firestore X**

205. An organization is using three cloud vendors to maximize their available deployment locations worldwide. They are using GKE Enterprise to deploy Kubernetes applications across different clouds. What type is this deployment?

- A. On-premises

- **B. Multi-cloud X**

- C. Hybrid-cloud

- D. Private cloud

206. An organization wants to transfer some of its data from Google Cloud. Which of these statements is true?

- A. Customer data may not be transferred out of Google Cloud.

- **B. Customers have full control of their data and may transfer it at any time.X**

- C. Outgoing data transfer must be enabled in the Google Cloud console.

- D. A technical support ticket must be raised with the correct department.

207. A vacation home rental organization wants to predict the popularity of properties in their upcoming busy season. They do not have a data science team, and want to use their in-house database administration skills to create a machine learning model. What should the organization do?

- A. Use custom training in Vertex AI with TensorFlow.

- B. Integrate pre-trained APIs into their application.

- **C. Use BigQuery ML and create models using SQL. X**

- D. Build a model in AutoML using labeled data.

208. An organization needs to rapidly scale its use of computing resources and honor its commitment to environmental sustainability. What should the organization do?

- A.Purchase energy-efficient servers for an existing on-premises data center.
- B.Refactor application software to use less energy
- C.Use a carbon-neutral energy provider for an existing on-premises data center
- **D.Use a public cloud provider with energy-efficient data centers X**

209. What is a defining feature of a non-relational database?

- A. Reporting across multiple data sources

- B. A strictly enforced schema

- C. **A flexible data model X**

- D. Queries that join multiple tables

210. Question: What is an example of unstructured data?

- A. Historical stock inventory
- B. Product ratings
- C. Customer orders
- **D. Call center transcripts X**

211. An organization has migrated all workloads to the cloud and is reviewing their cloud security posture. Who is now responsible for securing the physical infrastructure of the data centers?

- The organization and the cloud service provider
- Third-party security service providers

- **The cloud service provider X**
- The organization

212. An organization wants to lease the resources they need for their customized servers from a cloud provider on a pay-as-you-go basis, instead of paying one time for hardware. Which service model should they use?

- Hybrid cloud
- Software as a service
- **Infrastructure as a service (IaaS) X**
- Platform as a service

213. An organization has petabytes of data gathered from a wide range of sources. They want to use the data for strategic analysis and to guide business decisions. What type of service should they use?

- **A. Multi cloud environment X**
- B. Virtual machine environment
- C. Hybrid cloud environment
- D. Container environment

214. An organization wants a purpose-built AI solution to increase efficiency and provide personalized interactions for their customer care team. Which Google Cloud AI solution should they use?

- A. Text-to-Speech API

- B. Cloud Talent Solution

- C. Document AI

- **D. Contact Center AI X**

215. An organization wants to use an open source library with a flexible ecosystem of tools to create and train its own machine learning models. Which product or solution should the organization use?

- A. Cloud Functions

- B. Apache Beam

- C. Dataflow

- **D. TensorFlow X**

216. An organization wants to leverage cloud technologies but is concerned about vendor lock-in. What would mitigate this concern?

- **A. Open standards X**

- B. Database services

- C. Service level agreements

- D. Scalable infrastructure

217. An organization must identify and fix security vulnerabilities in its cloud infrastructure and applications. Which Google Cloud service should they use?

- **A. Security Command Center X**

- B. Google Cloud Armor

- C. Cloud Storage

- D. VPC networks

218. A cinema company wants to build a model to predict customer visit patterns for the coming year. They have three years of customer visit data across 300 theaters; however, the data has been stored in different formats by different theaters. They must train the ML model. What should they do?

- A. Use the last year of data so there are fewer inconsistencies for the model to handle.

- B. **Transform the data into a consistent format. X**

- C. Group different format types and train a different model for each group.

- D. Choose an ML model type that can process different formats of input data.

219. Within Google's Site Reliability Engineering framework, which concept measures how well a system is performing?

- A. Service-level agreement

- **B. Service-level indicator X**

- C. Error reporting

- D. Service-level objective

220. What is the typical cloud spending behavior of most organizations?

- **A. Decentralized and variable X**

- B. Centralized and variable

- C. Decentralized and fixed

- D. Centralized and fixed

221. An organization is developing a new container-based application. They do not know how popular the application will be when launched and they do not want to pay for idle infrastructure resources. Which benefit of serverless computing will address this concern?

- A. Disaster recovery

- B. Reduced development costs

- **C. Scalability X**

- D. Built-in security

222. How does the resource hierarchy in Google Cloud help organizations implement security policies?

- **A. Policies can be applied at the folder level and are inherited by projects inside the folder. X**

- B. Projects in the resource hierarchy are not affected by security policies.

- C. Policies can only be applied at the organization level and affect all projects.

- D. Policies can only be applied to individual projects.

223. An organization is considering the use of managed services when migrating to the cloud. Which routine tasks are typically provided automatically by a managed services platform?

- A. Managing user access

- **B. Patching and upgrades X**

- C. Data archiving

- D. Cost optimization

224. An organization has recently completed a migration from on-premises to Google Cloud. How has cost management been affected?

- **A. Costs will primarily shift from CapEx to OpEx. X**

- B. Costs will primarily shift from OpEx to CapEx.

- C. Cost management will stay the same, but the total cost of ownership (TCO) will be lower.

- D. Cost management will stay the same, but the total cost of ownership (TCO) will be higher.

225. An organization wants to access a software application from a cloud vendor without the need to manage their own servers or write their own code.
Which service model does this represent?

- A. Infrastructure as a service

- B. Platform as a service

- **C. Software as a service X**

- D. Functions as a service

226. An organization wants to build a data pipeline to transform its data so it can be reconciled in a data warehouse. The solution must be scalable and require little or no management. Which Google product or service should the organization choose?

- A. Cloud Bigtable
- B. Cloud Storage
- C. Pub/Sub
- **D. Dataflow X**

227. When is data automatically encrypted in Google Cloud?

- A. When it is in transit only,

- **B. When it is at rest and in transit. X**

- C. Data is not automatically encrypted by default.

- D. When it is at rest only.

228. An organization must verify the identity of a user seeking access to a system. Which aspect of cloud identity management does this action describe?

- A. Authorization

- **B. Authentication X**

- C. Auditing

- D. Encrypting

229. An organization is running Kubernetes applications across multiple cloud environments. They want a consistent and centralized management platform. Which service should they choose?

- A. Cloud Functions

- B. **GKE Enterprise X**

- C. Cloud Run

- D. Compute Engine

230. An organization wants to collect and store all logs generated by applications running in Google Cloud. Which service should they use?

- A. Cloud Profiler
- B. Cloud Monitoring
- C. Cloud Trace
- **D. Cloud Logging X**

231. What is the benefit of using a unified cloud data solution?

- Data will always cost less to store.
- Data can be automatically secured from external threats.
- Data will always be backed up and cannot be lost or deleted.
- **Data can enable innovation because it's no longer siloed. X**

232. An organization stores its important industry data in a relational database. They want to create a new revenue stream by enabling third parties to use that data in their applications. Which cloud first approach should the organization choose?

- A. Add third-party users to their database.

- B. Offer chargeable downloads of archived data.

- **C. Expose data through a chargeable API. X**

- D. Transfer data into a non-relational database.

233. Which scenario is a good use case for machine learning?

- A. Classifying data with no prior examples

- B. Tasks that require human experience and intuition

- C**. Creating customer recommendations X**

- D. Solving ethical dilemmas

234. An organization needs to increase the speed at which they can train machine learning models. Which domain-specific hardware is designed for this task?

- A. Bare Metal Solution

- B. Preemptible or Spot VMs

- **C. Cloud TPUs X**

- D. Containers

235. An organization has migrated several large databases to the cloud. It wants to increase the value of its data, improve cost controls and strengthen regulatory compliance. What should the organization do?

- A. Delete data stored for over a year.

- B. Export relational data to modern NoSQL databases.

- C. Create monthly reports on data access and uses.

- **D. Establish an effective data governance program. X**

236. An organization has hired a team of data scientists and developers. They want to create unique value in their business by coding an advanced machine learning model in Vertex AI Workbench. Which service should the organization use to train the model?

- **A. Custom training X**
- B. AutoML
- C. Compute Engine
- D. Prebuilt APIs

237. An organization is concerned that one of their applications takes too long to return a result. According to Google's "Four Golden Signals," which signal measures this aspect of the application's performance?

- A. Saturation
- B. Errors
- **C. Latency X**
- D. Traffic

238. An organization is transforming their raw data into a format that can be used to derive business insights. Which step of the data value chain does this action represent?

- A. Data analysis
- B. Data collection
- C. Data storage
- D**. Data processing X**

239. An organization has a small development team that has created a web application which runs in a single container. They need a simple, serverless, and scalable way to host their container. Which Google service should the organization use?

- A. Compute Engine
- B. App Engine
- C. Kubernetes Engine
- **D. Cloud Run X**

240. An organization wants a centralized view of their cloud infrastructure in a fully managed system that includes uptime checks. Which Google Cloud service should they use?

- A. Cloud Trace
- **B. Cloud Monitoring X**

- C. Cloud Logging

- D. Cloud Profiler

241. An organization wants to migrate a workload to the cloud without changing the application code or architecture. Which migration path describes this approach?

A. **Rehosted** X

B. Reimagined

C. Replatformed

D. Refactored

242. Which scenario uses machine learning to unlock business value from unstructured data?

- A. Analyzing tabular records of product defects to predict future maintenance cycles.

- B. Recommending new products based on previous purchases.

- C. Monitoring financial transactions to identify potential fraud and risk.

- **D. Determining customer sentiments from call center voice recordings.**X

243. An organization wants to build custom machine learning models. They require a managed platform that provides services to gather data, build models, and then deploy and monitor those models. Which service should they use?

- A. Document AI

- B. Natural Language API

- C. Kubernetes Engine

- **D. Vertex AI** X

244. In Google's cloud security model, how does availability contribute to a robust security posture for data?

- A. By restricting data access to authorized users

- B. By ensuring data meets industry standards

- C. By checking that data is accurate and trustworthy

- **D. By ensuring data is reliable and accessible X**

245. How does the legal concept of data sovereignty affect data?

- A. Data is subject to the laws and regulations of the country where it resides. **X**

- B. A country has the right to access the data generated within its borders.

- C. An individual has the right to control their personal data.

- D. Data must always be encrypted in transit and at rest.

246. An organization is concerned about their cloud costs. They want to be informed when their spending exceeds a specific threshold, rather than waiting to see their bill at the end of the month. What should the organization do?

- Pause virtual machines during non-business hours.
- **Configure a budget threshold rule and alert. X**
- Adjust project resource quota policies.
- Use historical cost data to predict future overspend.

247. An organization is running critical workloads in production and requires a Google Cloud support service with fast response times and a dedicated Technical Account Manager. Which customer care service level should the organization choose?

- A. Enhanced
- B. Basic
- **C. Premium X**
- D. Standard

248. A real estate organization processes photos of properties uploaded by their agents to an internal application. They must manually check and remove photos that contain personally identifiable information like passports and credit cards. They want a solution that their developer can use to integrate with their app as quickly as possible. Which solution should they use?

- **A. Pre-trained APIs X**

- B. AutoML

- C. Custom training

- D. BigQuery ML

249. What is generative AI?

- A. A machine learning model for language translation

- **B. A specific field of AI that can be used to create content X**

- C. An umbrella term that includes all types of machine learning algorithms

- D. An AI model for labeling images

250. What is a defining function of streaming analytics?

- **A. Processing data records continuously X**

- B. Processing data records in batches

- C. Processing a one-off data backfill

- D. Accessing data with high latency

251. An organization is deciding on the layout of their resource hierarchy in Google Cloud. They have several projects within a folder. What will happen when user access policies are applied to the folder?

- A. The policy will be inherited by the projects in the folder but will not affect their resources.

- **B. The policy will be inherited by the projects and their resources within the folder. X**

- C. The policy will be applied to all folders within the organization.

- D. The policy applies to the folder only, and will not be inherited by any projects.

252. An organization has an ecommerce application that requires a cost-effective, transactional database. The application will only serve customers in a single region. Which service should they use?

- BigQuery
- Cloud Bigtable
- Cloud Spanner
- **Cloud SQL X**

253. An organization wants to control what types of network traffic are allowed to enter and leave its network and access its applications. Which security measure should the organization use?

- 2-Step Verification
- Privileged access
- Encryption keys
- **Firewall rules X**

254. An organization has a large archive of unstructured data, including video and audio files. Which storage solution should the organization use?

- A. Cloud Spanner

- **B. Cloud Storage X**

- C. Cloud Bigtable

- D. Cloud SQL

255. A retail organization is training a model to recommend products to customers for an ecommerce website. The model was trained on previous purchases, but did not include demographic information on each buyer. What dimension of the data is responsible for the model's poor performance?

- A. Validity

- B. Accuracy

- C. Timeliness

- **D. Completeness X**

256. An organization has collected petabytes of historical data. They need an advanced analysis solution that is fast, scalable, and fully managed. Which Google product or service should the organization use?

- **A. BigQuery X**

- B. Cloud SQL

- C. Firestore

- D. Cloud Storage

257. What is a benefit of Google's purpose-built servers compared to standard servers?

- **A. They are optimized for specific tasks making them more efficient. X**
- B. They are backward compatible with legacy disk drives.
- C. They are cheaper to build than standard servers.
- D. They run software that cannot be deployed on standard servers.

258.What is the Site Reliability Engineering (SRE) term for an organization s desired level of reliability and performance?

- **A. Service-level objective X**
- B. Enhanced support
- C. Scalable infrastructure
- D. Service-level indicator

259.An organization is operating multiple workloads in containers and requires full control of how the workloads are configured. Which Google Cloud service should the organization use?

- A. Cloud Run
- B. Compute Engine
- **C. Kubernetes Engine X**
- D. Cloud Functions

260. When customer data is uploaded to Google Cloud, who owns the data?

- A. A third party
- B. The customer and Google share ownership
- C. Google
- **D. The customer X**

261. An organization is deploying their servers to the cloud using the infrastructure as a service model.
In the shared responsibility model, what is the cloud provider responsible for?

- A. Data access policies

- B. Security of the operating system

- C. Security of the software

- **D. Physical security X**

262. An organization runs a batch data analysis workload on a virtual machine (VM). The workload can be easily restarted without losing work, and is not time critical. Organizations must choose the lowest cost option to run the workload. What option should they choose?

- **A. A Preemptible or Spot VM on Compute Engine X**

- B. A custom VM in a pay-as-you-go model on Compute Engine

- C. A standard VM in a pay-as-you-go model on Compute Engine

- D. A Cloud Function with a small memory limit

263. Customers are reporting very high latencies when accessing an application from the United States. The application is currently running in a single region in Europe. What should the organization do?

- A. Set up a new billing account in the United States.

- B. Run the application in additional zones in the European region.

- C. Run the application in additional regions in Europe.

- **D. Run a replica of the application in a region in the United States. X**

264. An organization needs protection against distributed denial-of-service (DDoS) attacks. Which Google Cloud service should the organization use?

A. **Google Cloud Armor X**

B. Cloud Build

C. Cloud VPN

D. Security Command Center

265. An organization needs to store daily transactional data such as customer records and purchase history. The data follows a consistent schema and is cross-referenced. Which type of service should the organization use?

- A. Non-relational database

- B. Data warehouse

- **C. Relational database X**

- D. Data lake

266. An organization is hosting an application in Europe, and customers in Asia are reporting slow response times despite their fast internet connection.
What is the problem?

- A. Not enough application servers

- B. Network bandwidth

- **C. Network latency X**

- D. Misconfigured application servers

267. A manufacturing organization has a large collection of images labeled as intact or defective parts. They want to use this data to build a simple solution to detect faulty parts on their production line. They have no data science expertise. Which solution should they use?

- A. Pre-trained APIs

- B. Document AI

- C. **AutoML X**

- D. Discovery AI for Retail

268. An organization has a large dataset that contains text transcripts of conversations between their customers and service representatives. They want an automated solution to identify the topics their customers care most about. Which service should the organization use?

- A. Vision API

- B. Speech-to-Text API

- C. Cloud Translation API

- **D. Natural Language API X**

269. 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?

- **Cloud Functions X**
- Compute Engine
- Google Kubernetes Engine
- App Engine flexible environment

270. An organization wants to ensure that they grant users only the permissions they require to perform their job responsibilities. Which security principle describes this approach?

- A. Cyber resilience

- B. Zero-trust

- **C. Least privilege X**

- D. Security by default

271. An organization is concerned about the risk of data loss that may occur due to hardware failures or cyber attacks. They want to restore their systems to a previous state if such an event occurs. What should the organization do?

- A. Set service level objectives (SLOs).

- B. Use Cloud Monitoring.

- **C. Back up data regularly. X**

- D. Enable autoscaling.

272. An organization processes batch sales data at the end of every month to analyze sales trends and derive business insights. They want to improve accuracy and make near real-time decisions. What should the organization do?

- A. Change from a relational database to a NoSQL database.

- B. Filter the data so reports are generated faster.

- **C. Switch from batch processing to stream processing. X**

- D. Process batch reports weekly instead of monthly.

273. An information security organization must ensure that its service providers have ISO 27001 certification. They must also access supporting documentation. Which Google Cloud tool should they use?

- **A. Compliance Reports Manager X**

- B. Security Command Center

- C. Network Intelligence Center

- D. Cloud Monitoring

274. An organization wants to adopt the advanced machine learning capabilities of the Google Cloud. However, regulations require data to be stored in an on-premises data center. Which approach should the organization use?

- **A. A hybrid-cloud approach X**

- B. A multi-cloud approach

- C. A public-cloud approach

- D. A private-cloud approach

275. An organization wants to run their custom application in the cloud in a flexible and scalable way without managing any infrastructure. Which service model should they use?

- A. Infrastructure as a service

- **B. Platform as a service X**

- C. Software as a service

- D. Network as a service

276. An organization is using Compute Engine and wants to receive sustained-use discounts. What should the organization do?

- A. Choose preemptible or spot instances when creating virtual machines.

- B. Choose low-powered virtual machines.

- **C. Nothing. Sustained use discounts are automatically applied. X**

- D. Commit to virtual machine usage for a one or three-year period.

277. An organization is evaluating its defenses against cyber security threats and is concerned about the risks of social engineering by cyber criminals. How might these attacks happen?

- A. SQL injection attacks

- B. Physical damage to hardware

- **C. Phishing emails X**

- D. Distributed denial-of-service attacks

278.An organization has a large VMWare environment that they want to migrate to the cloud. They want to retain existing operational processes and tools. Which Google Cloud service should the organization use?

- A. Compute Engine

- B. **Google Cloud VMware Engine X**

- C. VMWare vSphere

- D. Bare Metal Solution

279. An organization is building advanced machine learning models in Google Cloud by using TensorFlow. They want to develop their models faster with purpose-built hardware. Which solution should the organization use?

- **A. TPUs X**

- B. CPUs

- C. CPUs

- D. GPUs

280. A financial organization has many customers who close their accounts every year. The organization wants to use data and AI to identify at-risk customers, so they can retain customers by offering discounts and improved services. What should the organization do?

- A. Create a dashboard of previous customers that have exited, and look for obvious correlations in the visualization.

- **B. Create a ML model based on the demographics and activities of previous customers that exited. X**

- C. Create a survey for all customers to identify their current level of satisfaction.

- D. Create a report based on last year's customer feedback.

281. What is the purpose of an application programming interface (API)?

- **A. To provide a set of instructions that allow computer programs to communicate with each other X**

- B. To provide cloud plugins for integrated development environments

- C. To connect networks from different cloud providers

- D. To manage multiple containerized workloads

282. An organization supplies electric car chargers in a nationwide network. They store customer and charging data in BigQuery. They want to efficiently upgrade and maintain their network to reduce waste and achieve their sustainability goals. How can Google Cloud services help the organization?

- A. Secure data access by using Identity and Access Management.

- B. Provide access to third-party developers by creating an API using Apigee.

- C. **Create a model in BigQuery to predict future maintenance schedules.X**

- D. Move data from BigQuery to Cloud Storage to reduce storage costs.

283. An organization is planning to deploy a new workload to Google Cloud. They need an accurate estimate of the likely costs of running the workload. How should the organization create this estimate?

- **A. Use the Google Cloud Pricing Calculator. X**

- B. Deploy workload to test environment to observe costs.

- C. Use historic costs of an existing similar workload.

- D. Refer to pricing information and manually calculate an estimate.

284.

285. An organization is using new technologies to change its business processes and culture to develop new customer experiences and adapt to market dynamics.
What is the name of this approach?

- **A. Digital transformation X**

- B. Data center migration

- C. Operations optimization

- D. User personalization

286. An organization is developing applications by using Kubernetes. They want their teams to spend more time developing rather than managing clusters. Which Google Cloud service should the organization choose?

- **A. GKE Autopilot X**

- B. Compute Engine

- C. Cloud Run

- D. GKE Standard

287. An organization wants to deploy new workloads to the cloud but must keep some systems on-premises for compliance reasons. Both environments must be managed centrally. Which type of environment should the organization use?

- A. Virtual machine environment

- B. Multi cloud environment

- **C. Hybrid cloud environment X**

- D. Container environment

292.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 X

293.An organization runs their application on a virtual machine, but every time they want to edit specific features, they have to bring the system offline to update the applica-tion. What would be a more appropriate solution for their app?

- o GPUs
- o **Containers X**
- o Hypervisors
- o Solid State Disk

295.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?

- o Apply a unique tag to development resources
- o Associate the development resources with their own network
- o Associate the development resources with their own billing account
- o **Put the development resources in their own project X**

297.The government has mandated that companies in a particular section of healthcare must retain all the data they collect for a period of 10 years in case an audit needs to be done. Your client, who is in that industry, needs to follow regulations. In addition, your client wants to do an analysis of the data quite frequently in the first year. They also don't want to be liable for any data beyond year 10. What would recommend for your customer?

- o **Use Cloud Storage with nearline storage in year one and Coldline storage thereaf-ter. Use Object lifecycle management to move between storage types and delete them after 10 years. X**
- o Use Cloud Storage with standard storage in year one and Coldline storage there-after. Set a Cloud Scheduler trigger for 1 year to change storage types and 10 years to delete the data.
- o Use Cloud Storage with standard storage in year one and archival storage thereaf-ter. Use Object lifecycle management to move between storage types and delete them after 10 years.
- o Use Cloud Storage with standard storage in year one and Coldline storage there-after. Set a Cloud Tasks to trigger for 1 year to change storage types and 10 years to delete the data.