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Question 1:

Your organization has recently decided to move its applications to the Cloud. The current CICD pipeline uses GitHub repositories for source code version control. You have been directed to proof-of-concept deployment linking GitHub to Cloud Build for image creation and deployment.

What steps can you take to achieve this with minimal overhead? Choose TW0

* 

**Create a new repository in Cloud Source Repository Create a trigger in Cloud Build to automate the image creation Clone the GitHub repository.**

* 

**Connect to an external repository in Cloud Source Repository. Authorize Google Cloud Platform to connect to the GitHub repository Create a trigger in Cloud Build to automate the image creation**

* 

**Commit code to the new repository in Cloud Source Repository**

* 

**Grant the Cloud Build service account the permissions to build the image**

* 

**Commit code to the repository in GitHub**

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Question 2:

You are part of the SRE team working for a data-processing company. Your team manages an application that was manually deployed to App Engine. The application source code is stored in Cloud Source Repositories. A new version of the application has been developed and tested. Approval has been given to deploy to production. You pushed the code update to the Cloud Source Repository, and after some time you notice the old version has not been updated.

What should you do?

* 

**Check the trigger in Cloud build is set up correctly and push the update again.**

* 

**In the Cloud Shell, change directory to where the app.yaml is stored and run the command ‘gcloud app browse’.**

* 

**In the Cloud Shell, change directory to where the app.yaml is stored and run the command ‘gcloud app deploy app.yaml’**

* 

**Ensure the Cloud Build Service Account has permissions to deploy to App Engine**

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Question 3:

You are responsible for setting up an automated CICD pipeline. The pipeline will be used to build docker images for application deployment to GKE. Recently the performance (build speed)) of Cloud Build in your pipeline has been dropping.

What steps can you take to improve the speed of builds? Choose TWO

* 

**Exclude files not needed by your build with a .gcloudignore file.**

* 

**Utilize larger base images where possible.**

* 

**Exclude files not needed by your build with a .gitignore file**

* 

**select a virtual machine with a higher CPU**

* 

**Add more permissions to the Cloud Build Service Account**

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Question 4:

Your company has multiple Project in its Google Cloud Organization hierarchy. There are resources in the different Projects which have been configured to send metrics to centralised monitoring workspace. You recently created a deployed Apache on a Compute Engine with a custom Service Account in one of the Projects. You installed and configured the monitoring agent to get metrics from Apache application. You notice there are no apache metrics in the centralised monitoring workspace.

Which of the following is a possible reason?

* 

**The custom Service Account has insufficient permissions.**

* 

**The Fluentd agent was not installed properly.**

* 

**The agent is not running on the Compute Engine**

* 

**The Compute Engine is a different region from the monitoring workspace**

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Question 5:

You are designing an online gaming application. The web application allows users to select games and view leaderboards. Game scores are stored in a database. You want to identify the minimum Service Level Indicators (SLIs) for the application to ensure the leader board has the latest scores.

What SLIs should you select?

* 

**Web Application - Durability, Database - Coverage**

* 

**Web Application - Availability, Latency Database - Availability.**

* 

**Web Application - Durability, Quality Database - Latency.**

* 

**Web Application - Coverage Database - Latency**

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Question 6:

Your team is building an automated CICD pipeline in the development Project. The Cloud Source Repository will be used for code versioning, Cloud Build will be used to build and deploy the application to Google Kubernetes Engine. The Cloud Build Service account has been given the Kubernetes Engine Developer permissions. After a developer pushes code to the Cloud Source Repository, you notice the application is not getting deployed to GKE.

Which of the following could be the reason?

* 

**The Kubernetes Engine Developer permissions are not sufficient.**

* 

**No Trigger was created in Cloud Build**

* 

**Cloud Source Repositories needs permissions to use Cloud Build**

* 

**The GKE API is not enabled**

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Question 7:

Your Site Reliability (SRE) team members are managing the CICD of your organization. The organization uses GCP Projects to separate environments. The pipeline consists of Cloud Source Repository, Cloud Build and Spinnaker. There is a security requirement to send the logs of Cloud Build in the Production Project to a user-created bucket in a Project designated for logs.

Which step can you take to achieve this?

* 

**Grant the Cloud Build Service account of the Production Project the Storage Admin role in the logging Project.**

* 

**Grant the Cloud Build Service account of the Production Project the Storage Admin role in the Production Project.**

* 

**Grant the Cloud Build Service account of the Production Project the Project Viewer role in the logging Project**

* 

**Grant the Cloud Build Service account of the Production Project the Project Viewer role in the Production Project**

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Question 8:

Your team has been tasked with the monitoring of a new application to be deployed on Managed Instance Groups. You are responsible for setting up the monitoring agent and the custom metrics for the application. You have chosen to create the metric descriptor manually. You need to monitor the memory utilization metric of the application and create an alerting policy.

What value should the Metric Kind be set to in the descriptor?

* 

**Set the metric kind to cumulative**

* 

**Set the metric kind to gauge**

* 

**Set the metric kind to delta**

* 

**Set the metric kind to distribution**

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Question 9:

Your team has developed and tested a video processing service for your company. The video service accepts videos in one format and converts it to another specified format. Your team has agreed on the indicator metrics to track the performance of the system. All stakeholders of the application have agreed on a minimum target value, within a rolling 4-week window, for the indicator metric used to measure the service.

What is needed to guarantee a level of service to the customer with consequences for missing it?

* 

**Create a Service Level Objective and share with the users.**

* 

**Create an Error Budget and share with the users.**

* 

**Create a Service Level Indicator and share with the users**

* 

**Create a Service Level Agreement and share with the users**

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Question 10:

Your organization has created three monitoring workspaces called dev-workspace, test-workspace and prod-workspace. The workspaces monitor the Projects outlined below:

dev-workspace: dev-1, dev-2, dev-3

test-workspace: test-1, test-2

prod-workspace: prod-1, prod-b and prod-c

You have been asked to monitor the project prod-1 alongside test-1 and test-2 in the same workspace.

How will you achieve this?

* 

**Move the prod-1 project to the test-workspace, this will delete it from prod-workspace.**

* 

**The monitoring workspace of Projects cannot be updated after creation.**

* 

**Merge test-workspace and prod-workspace.**

* 

**Add the prod-1 project to the test-workspace and leave it in prod-workspace as well.**

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Question 11:

Your company has several Google projects in its organisation. As part of the monitoring strategy, the projects will be added to specified workspaces. Your team has been assigned the task of creating the workspaces.

Following the principle of least privilege, what IAM role would your team need to create workspaces?

* 

**Assign the Project Editor role to the team in the Project where the monitoring workspace will be created.**

* 

**Assign the Monitoring Editor role to the team in the Project where the monitoring workspace will be created**

* 

**Assign the Monitoring Admin role to the team in the Project where the monitoring workspace will be created.**

* 

**Assign the Project Owner role to the team in the Project where the monitoring workspace will be created**

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Question 12:

You are a DevOps engineer for a social media company. You are on the monitoring team for their flagship web application that is growing rapidly. The application is deployed on Managed Instance Groups behind a HTTP(S) load balancer. The number of logs created by the application is causing the Project to exceed the logging API quota. You have created exclusion filters in Cloud Logging. You notice the issue persists.

What could be the problem?

* 

**The exclusion filter was not configured properly.**

* 

**More log types need to be added to the exclusion filters**

* 

**Logs are excluded after they are received by the Logging API. Therefore, excluding logs does not reduce the number of entries.write API calls**

* 

**The service account of the Managed Instance Group needs additional permissions to use the exclusion filters.**

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Question 13:

Your company has multiple projects in Google Cloud. The projects represent the available environments such as development, test, pre-production and production. A centralised logging system needs to be implemented where all the environments send their logs to a security project. There is a requirement to not send any logs generated by an apache application to the security project.

What steps can you take to achieve this? Choose TWO

* 

**Create a Logs bucket in the security project.**

* 

**Create a Logs bucket in each project.**

* 

**In the Logs router of each project, create a sink with the logs bucket in the security project as destination and specify the apache logs to exclude with a filter rate of 0.**

* 

**In the Logs router of each project, create a sink with the logs bucket in the security project as destination and specify the apache logs to exclude with a filter rate of 100.**

* 

**In the Logs router of each project, create a sink with the logs bucket in each project as destination and specify the apache logs to exclude with a filter rate of 100.**

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Question 14:

You are part of the Site Reliability Engineering Team at your company. Your team manages all the updates to production, and review of application performance in production. Recently there was an incident in production that affected a whole region of users. A meeting has been called to review the incident.

Following Google’s best practice, which of the following should not be discussed?

* 

**The root cause of the incident.**

* 

**The action items in the post-mortem and their status.**

* 

**Team members responsible for the incident and training needed.**

* 

**Any scheduled deployments to production.**

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Question 15:

You are the on-call SRE for a growing media company. You are managing an application deployed on Compute Engine within a custom VPC. The application accepts user traffic from anywhere using HTTPS. You have been tasked with logging all failed incoming SSH traffic to the GCE instances.

How will you achieve this?

* 

**Create a firewall rule that denies ingress traffic on Port 22 from anywhere to the VPC network and turn on Logs.**

* 

**Create a firewall rule that allows ingress traffic on Port 22 from anywhere to the VPC network and turn on Logs.**

* 

**Create a firewall rule that denies egress traffic on Port 22 from anywhere to the VPC network and turn on Logs.**

* 

**Create a firewall rule that allows egress traffic on Port 22 from anywhere to the VPC network and turn on Logs.**

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Question 16:

You are part of an on-call Site Reliability Engineering team managing a web application in the production. The application serves user requests from several regions. A new update was deployed over the weekend to introduce new features into the application. Users are reporting errors and failed processed requests from the application. Your team declares an incident, accesses the impact and discovers the issue is affecting users in one region.

Which of the following is the recommended action?

* 

**Take steps to mitigate the impact.**

* 

**Carry out a root-cause analysis of the incident, to prevent it from happening again.**

* 

**Fix what caused the incident and write a post-mortem.**

* 

**Roll back the previous version of the application.**

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Question 17:

You are part of an on-call SRE team managing an apache web service application in production. The application is deployed to Google Compute Engine. The FluentD agent is installed on the GCE instance. You have been tasked with reviewing the apache logs from the application

Which of the following queries helps you do this?

* 

**resource.type="gae\_app" AND (logName:"/apache-access" OR logName:"/apache-error").**

* 

**resource.type="gce\_instance" AND (logName:"/apache-access" OR logName:"/apache-error").**

* 

**resource.type="gce\_instance" AND log\_id("cloudaudit.googleapis.com/activity").**

* 

**resource.type="gce\_instance" AND log\_id("cloudaudit.googleapis.com/data\_access").**

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Question 18:

Your organization has several applications running on Compute Engine. The instances generate logs and metrics which are been monitored on dashboards. There is a new requirement to capture operating system (OS) level logs for security reasons.

How can you achieve this?

* 

**Install the google-collectd-catch-all package on the Instances**

* 

**Create log-based metrics from the logs in Cloud Logging**

* 

**Install the google-fluentd-catch-all package on the Instances**

* 

**Create a sink to route all OS level logs to a specified Logs bucket**

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Question 19:

Your company has three environments called production, staging and development. A GCP Project has been set up for each environment, there is also a monitoring project with two workspaces, one for production while the other is for development and staging. A GKE Cluster has been set up in both staging and development for testing an application to be deployed to production. Both clusters have a service called app-serve and an alerting policy was created to monitor the service in the workspace. When there is an incident on the service, the GKE monitoring dashboard can’t associate this incident uniquely with the development service or the staging service

How can you resolve this with little operational overhead?

* 

**Create separate workspace for the development workspace**

* 

**Change the service name in one of the clusters**

* 

**Update the Group By field in the alerting policy by adding namespace, cluster and location**

* 

**Change the name of one of the clusters**

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Question 20:

Your SRE team is responsible for monitoring and logging of the applications in Production Projects. The applications are deployed on different resources like Compute Engine and GKE. Your team has created a centralised monitoring dashboard in the monitoring Project for the metrics from all the production Projects. An uptime check was created for the applications. You have been tasked with setting up the Notification channels for one of the applications to send the notification to a public endpoint.

Which of these helps you meet the requirement?

* 

**In Monitoring, Select the Alerting and Edit Notification Channels Configure Webhooks.**

* 

**In Monitoring, Select Dashboards and Edit Notification Channels Configure Webhooks**

* 

**In Monitoring, Select Settings and Edit Notification Channels Configure Webhooks**

* 

**In Monitoring, Select Notification Channels Configure Webhooks**

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Question 21:

A company wants to use GCP for their development and deployment of applications. They have set up an organization, folders and projects. They want to set up multiple Cloud Source Repositories (CSR) in one Project. Different teams have different access requirements to the CSRs in the Project.

Which of the following is the best way of managing access to the CSR for the different teams?

* 

**Assign the permissions for the different teams at the folder level**

* 

**Assign the permissions for the different teams at the Project level**

* 

**Assign the permissions for the different teams at the Organization level**

* 

**Assign the permissions for the different teams at the repository level**

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Question 22:

You are on the SRE team that monitor production-grade applications. One of your team members notices that one application performance has degraded, and customers are noticing. As this incident begins to unfold, what is Google’s recommended first action for managing incidents?

* 

**Assign the role of an operational lead**

* 

**Assign the role of an Incident Commander**

* 

**Assign the role of a communications lead**

* 

**Assign the role of a Planning lead**

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Question 23:

You are one of the on-call engineers managing an application running in production. A recent update has caused the application’s response time to increase drastically. An incident has been declared and all the roles except the Planning Lead has been assigned.

Following Google’s SRE practice, who is to assume this role and its responsibilities?

* 

**Assign the role to the operational lead**

* 

**Assign the role to the Incident Commander**

* 

**Assign the role to the communications lead**

* 

**Leave the role unassigned**

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Question 24:

You are on a cross-functional team of SREs and product developers managing an application that needs to be deployed to production. Metrics for measuring reliability and performance of the application have been agreed on. There is a need to decide the frequency of releasing new changes.

Following Google’s SRE practice, what measure should be used to control this?

* 

**The Service Level Indicators (SLI) measurements can be used to control the frequency of new releases to production**

* 

**The Service Level Agreements (SLA) should be used to control the frequency of new releases to production**

* 

**The Service Level Objectives (SLO) measurements should be used to control the frequency of new releases to production**

* 

**The Error Budget should be used to control the frequency of new releases to production**

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Question 25:

You are helping with the design of a data processing pipeline for a company. Data is streamed from different devices into the pipeline and then processed before it is loaded into the final storage for analytic use. You want to identify minimal Service Level Indicators (SLIs) for the storage to ensure that the data in the storage can be read successfully.

Which SLI should be part of your consideration?

* 

**Freshness.**

* 

**Latency.**

* 

**Correctness**

* 

**Durability.**

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Question 26:

You are on the SRE team of your company. The client has decided to also keep the logs that record operations in Compute Engine that read user-provided data made in the Production project for Two years in order to fulfil a new compliance requirement.

Which of the following can help you achieve this? Choose TWO

* 

**Update the retention period of the \_Required Logs bucket from 30 days to 730days.**

* 

**Create a Logs Bucket with a retention period of 730 days. Create a new Logs Sink with the new Logs Bucket as destination and the inclusion filter of the \_Required Sink.**

* 

**Create a Logs Bucket with a retention period of 730days. Create a Logs Sink with the new Logs Bucket as destination and the inclusion filter of the \_Default Sink.**

* 

**Enable the Data Read audit logs for Compute Engine API**

* 

**Enable the Data Write audit logs for Compute Engine API**

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Question 27:

You are planning on deploying JVM using Compute Engine. You need to track the peak number of live threads in the instance.

Which of the following can help you achieve this? CHOOSE TWO

* 

**Enable Cloud Operations for Compute Engine in the Features.**

* 

**On the GCE instance, install the Cloud Monitoring Agent**

* 

**Choose the System and workload logging and monitoring option in the Cluster Features.**

* 

**Install the necessary configuration files for JVM.**

* 

**Install the catch-all configuration to automatically capture the JVM metrics.**

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Question 28:

You are one of the on-call engineers in a global team managing an application running in production. A recent update has caused the application’s response time to increase drastically. An incident has been declared and actions to mitigate the issue have not yet been deployed. Your team is coming to the end of your workday.

Following Google’s SRE practice, what should be done?

* 

**Hand over command to developers in another location**

* 

**Stay over-time to resolve the issue**

* 

**Hand over command to an Incident Commander in another location**

* 

**Close for the day and resume resolving the next working day.**

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Question 29:

You work as a DevOps Engineer for a start-up company. The company’s strategy is to use an automated CI/CD pipeline to deliver software faster. You have been tasked with choosing the tools for the pipeline. A key requirement is selecting a repository that can trigger builds in Cloud Build.

Which of the following repositories does not meet the requirements?

* 

**AWS CodeCommit**

* 

**Bitbucket**

* 

**GitLab**

* 

**Cloud Source Repositories**

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Question 30:

You have been tasked with building an automated build for the deployment of applications to serverless infrastructure in Google Cloud Platform.

Which of the following can help you complete the task with little overhead? Choose Two

* 

**Cloud Source Repository for source code management Cloud Build as a CI tool Cloud Build as a CD tool for deploying to Compute Engine**

* 

**GitHub for source code management Cloud Build as a CI tool Cloud Build as a CD tool for deploying to Cloud Functions**

* 

**Cloud Source Repository for source code management Cloud Build as a CI tool Cloud Build as a CD tool for deploying to Cloud Run**

* 

**GitHub for source code management Cloud Build as a CI tool Cloud Source Repository as a CD tool for deploying to Cloud Functions**

* 

**GitHub for source code management Cloud Build as a CI tool Jenkins as a CD tool for deploying to Cloud Run**

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