Top of Form

Question 1:

You are on-call managing an application in production. You receive alerts from the monitoring system of the application which show it is failing uptime checks.

What do you do first following SRE best practice of managing incidents?

* 

**Perform a root cause analysis**

* 

**Start fixing it**

* 

**Inform your team lead**

* 

**Investigate, and if it persists, appoint an incident commander**

Bottom of Form

Top of Form

Question 2:

Your team is planning to deploy an application to App Engine in the production Project. You need to be able to inspect the state of the app in real time, without stopping or slowing it down.

How can you accomplish this?

* 

**Using Cloud Monitoring to inspect the state of the app in real time**

* 

**Using Cloud Logging to inspect the state of the app in real time**

* 

**Using Cloud Profiler to inspect the state of the app in real time**

* 

**Using Cloud debugger to inspect the state of the app in real time**

Bottom of Form

Top of Form

Question 3:

You are responsible for designing the logging of an application. Your company has asked you to ensure logs are sent to the company’s Splunk instance.

How should you accomplish this with the least amount of operation overhead?

* 

**Create logs export to Cloud Storage buckets as the destination and use Cloud Functions to copy to the Splunk.**

* 

**Create logs export to a Pub/Sub topic as the destination and subscribe the Splunk to the Pub/Sub topic**

* 

**Create logs export to a BigQuery dataset as the destination and use Cloud Functions to copy to the Splunk.**

* 

**Create logs export to Splunk as the destination.**

Bottom of Form

Top of Form

Question 4:

You are responsible for designing a new logs collection system in your organization. Your company has asked you to ensure all audit logs from all projects in the organization are aggregated in one location.

How should you accomplish this? Choose Two.

* 

**Create a Project for collecting logs, and create a logging bucket in Cloud Storage using the console in that Project**

* 

**Create a Project for collecting logs, and create a logging bucket in Logging using the console in that Project**

* 

**Create a logs sink in the console, select the type of logs to be collected, logging bucket, organization and all the projects in the organizations**

* 

**Create a logs sink from the cli, specifying the type of logs to be collected, logging bucket, organization and the –include-children flag**

* 

**Create logs sink in every Project to the logging bucket**

Top of Form

Question 5:

You are responsible for designing a CI/CD pipeline in your organization. Your company has asked you to ensure all data access logs for the pipeline is turned on and kept for at least 90 days.

What should you take into consideration before Data Access logs are turned on? Choose Three.

* 

**Cost implications for log ingestion**

* 

**Cost Implications for logs storage**

* 

**Logs destination**

* 

**Log structure**

* 

**Logs allotment limits**

* 

**Cost implications for logs routing**

Bottom of Form

Top of Form

Question 6:

You are responsible for designing a CICD pipeline in your organization. Your company has asked you to ensure all the continuous deployment (CD) part of the pipeline can handle Blue/Green deployment.

How could you accomplish this? Choose Two.

* 

**Spinnaker deployed on GKE**

* 

**Cloud Build**

* 

**Deployment Manager**

* 

**Cloud Run**

* 

**Jenkins deployed on GKE**

Bottom of Form

Top of Form

Question 7:

Your team is designing a CICD pipeline for your organization. Jenkins was chosen as the Continuous Deployment Tool.

Following GCP’s recommended practice, how should the CD Tool be deployed? Choose Two.

* 

**Jenkins deployed on GKE**

* 

**Jenkins deployed on Cloud Run**

* 

**Jenkins deployed on Compute Engine**

* 

**Jenkins deployed on App Engine**

* 

**Jenkins deployed on Cloud Functions**

Bottom of Form

Top of Form

Question 8:

Your team is designing a web-facing application for your organization. The application is intended to serve users globally. Your job is to plan for the capacity of the application.

Following GCP’s SRE best practice for capacity management, which of these is not recommended?

* 

**Design for graceful degradation**

* 

**Carry out load testing**

* 

**Implement monitoring and alerting**

* 

**Provision a higher capacity to account for possible demand spikes**

Bottom of Form

Top of Form

Question 9:

You are responsible for deploying a web-facing application. The application will serve users in multiple regions. There is a reliability requirement for the system not to be overloaded with requests during peak periods.

Following GCP’s SRE best practice, which of these is not recommended?

* 

**Implement queue management**

* 

**Load Shedding**

* 

**Implement cross-layer communication**

* 

**Implement Retries**

Bottom of Form

Top of Form

Question 10:

Your team uses Docker images to build applications. There is a requirement for exploits to be detected in Docker images built using Cloud Build before they are used in deployments. You have been tasked with deploying the process to detect vulnerabilities in built images before they are deployed.

What steps can you take to achieve this? Choose TWO

* 

**Enable Vulnerability scanning in Cloud Build to scan images.**

* 

**Enable Vulnerability scanning in Cloud Source Repositories to scan images.**

* 

**Enable Vulnerability scanning in Container Registry to scan images**

* 

**Enable Vulnerability scanning in Cloud Private Catalog to scan images**

* 

**Enable Vulnerability scanning in Artifact Registry to scan images**

Bottom of Form

Top of Form

uestion 11:

Your team is developing an application using Java. Cloud Build is used to build images for applications. There is a requirement for store the Java image and maven packages in GCP for use in deployment.

What is the recommended solution to achieve this?

* 

**Store the Java image in Cloud Source Repository and the maven packages in Container Registry.**

* 

**Store the Java image in Cloud Storage and the maven packages in Container Registry.**

* 

**Store the Java image and maven packages in Container Registry**

* 

**Store the Java image in Container Registry and the maven packages in Cloud Storage**

Bottom of Form

Top of Form

Question 12:

To meet industry compliance, your company has asked you to configure VPC Flow Logs. A key priority is to streamline the logs collected from Flow Logs to reduce storage costs.

What steps can you take to achieve this? Choose TWO

* 

**You can set filters so that only logs that match certain criteria are generated.**

* 

**Metadata annotations can be turned off, or you can specify only certain annotations.**

* 

**Create Log Sinks to store VPC Flow Logs**

* 

**Modify Logs using the record\_transformer plugin to reduce the number of logs written to Logging**

* 

**Modify the default retention period on the Logs bucket**

Bottom of Form

Top of Form

Question 13:

To meet security compliance of centrally collecting VPC Flow Logs, your company asked you to configure a Logs routing sink. The Sink destination is a Logging bucket in another project. After you configure the Logs Sink, a few days later one of the security team members points out that there are no logs in the logging bucket.

Which of the following is not a possible reason?

* 

**Flow Logs were not enabled in the monitored Project.**

* 

**Firewall rules are blocking traffic.**

* 

**Logging exclusion filters defined on the sink block specified logs**

* 

**Viewing the wrong Logging bucket**

Bottom of Form

Top of Form

Question 14:

You are responsible for managing the release of a new version, with breaking changes, of an API that your company owns. There are numerous customers who consume this API.

Which of the following is the recommended release order?

* 

**Announce the new version, Deploy the new version of the API, Inform customers of the end date of the old API version, Provide support for any customers using the old version till its end date, Deprecate old API version.**

* 

**Deploy the new version of the API, Announce the new version, Inform customers of the end date of the old API, Deprecate old API version, Provide support for any customers using the old version till its end date.**

* 

**Announce the new version, Deploy the new version of the API, Deprecate old API version, Inform customers of the end date of the old API version, Provide support for any customers using the old version till its end date.**

* 

**Inform customers of the end date of the old API version, Deprecate old API version, Announce the new version, Deploy the new version of the API, provide support for any customers using the old version till its end date.**

Bottom of Form

Top of Form

Question 15:

Your team is developing a python application for a government agency. The company has decided that the application should be deployed to App Engine Flexible environment in GCP. There is a security requirement for collection of the application logs.

Which steps can you take to fulfil this requirement? Select TWO

* 

**Integrate the python logging module with Cloud Logging.**

* 

**There is nothing to be done, App Engine automatically sends these logs to the Cloud Logging agent.**

* 

**You can write structured logs as JSON objects serialized on a single line to stdout or stderr**

* 

**Grant the Logs Writer role to App Engine**

* 

**Enable Cloud Logging**

Bottom of Form

Top of Form

Question 16:

Your Site Reliability (SRE) team members are frequently interrupted with several tasks/requests, such as handling quota requests, from customers that prevent them from making progress on engineering work or feature launches. A recent review shows that most of the requests are repetitive.

Which steps can you take to reduce the interruptions following Google’s SRE best practice to avoid exhaustions or burnout?

* 

**Onboard additional team members for support.**

* 

**Assign the engineering work to the Software Engineering team.**

* 

**Offload some of the requests to another SRE team to handle**

* 

**Identify repetitive tasks that cause the interruptions and automate them**

Bottom of Form

Top of Form

Question 17:

Your Site Reliability (SRE) team members manage an application deployed in three regions. The application is deployed on Managed Instance Groups placed behind a global HTTP(S) Load balancer. You are applying a critical security patch to the Compute Engines. You successfully patch the instances in the first 2 regions, but you made an error in the patching of the third region which causes requests to that region to fail.

You want to mitigate the impact of unsuccessful patching on users. What should you do?

* 

**Restart all the Instances in the affected region.**

* 

**Rollback the changes made to region 3.**

* 

**Increase the number of instances in region 3.**

* 

**Drain the requests to region 3 and redirect requests to regions 1 and 2.**

Bottom of Form

Top of Form

Question 18:

Your team manages a financial application for an organisation. You have been given a requirement to preserve the logs from the application for 10years as part of a compliance process. Logs will be reviewed once a year.

What is the most cost-effective way to achieve this?

* 

**Create a sink to route the application logs to a Cloud Storage Archive bucket and set the retention policy to 10 years.**

* 

**Create a sink to route the application logs to a user-defined logs bucket and set the retention period to 3650 days.**

* 

**Create a sink to route the application logs to a Cloud Storage Coldline bucket and set the retention policy to 10 years**

* 

**Create a sink to route the application logs to BigQuery dataset**

Bottom of Form

Top of Form

Question 19:

Your team is developing a containerized python application for a government project. The application uses a microservices architecture and will be deployed using Cloud Run. You have been asked to capture the application's top or new errors in a clear dashboard in real-time.

How would you achieve this?

* 

**Install the Logging agent and Modify your application so that it logs exceptions and their stack traces to Logging.**

* 

**Install the Monitoring agent and Modify your application so that it exceptions and their stack traces to Error reporting.**

* 

**No additional setup or configuration is required. Error reporting is automatically enabled for Cloud Run.**

* 

**Report errors to the API using either the REST API or a client library**

Bottom of Form

Top of Form

Question 20:

Your company has several Google Projects. As part of the CI/CD pipeline it has a Project where automated Compute and Docker Image creation is done. Users in the developer, staging and Production Projects require access to the images created for deployments.

Following principle of least privilege, what IAM role would you need to assign to users to achieve this?

* 

**Allow users to create instances from these images by granting them the compute.imageUser role in the image creation Project.**

* 

**Allow users to create instances from these images by granting them the compute.instanceAdmin role in the image creation Project.**

* 

**Allow users to create instances from these images by granting them the compute.imageUser role in their different Projects.**

* 

**Allow users to create instances from these images by granting them the compute.instanceAdmin role in their different Projects**

Bottom of Form

Top of Form

Question 21:

You are developing a mobile application for a financial institution. A key security requirement is that application passwords are changed frequently. The application will comprise two parts; the front-end deployed on Google Kubernetes Engine and the database is Google Cloud SQL. You need a secure way to pass the database credentials to the application at runtime and also meet the security requirement.

How can you achieve this following best practice?

* 

**Store the credentials in the application code and update it as needed by releasing new versions/updates to the application.**

* 

**Use the CI/CD pipeline to inject the credentials into the application at deployment**

* 

**Create a secret via the console and configure secret rotation. Store the credentials in the secret. Configure the application to get the credentials from Secrets Manager using secret versions and update the secret version used by the application after every rotation and disable previous versions.**

* 

**Create a secret via the CLI and configure secret rotation. Store the credentials in the secret, Configure the application to get the credentials from Secrets Manager using secret versions and update the secret version used by the application after every rotation and disable previous versions.**

Bottom of Form

Top of Form

Question 22:

Your company has decided to migrate from on-premises to Google Cloud. The first environment to be migrated is the development and testing environments. Currently each environment is fully documented, consists of a network with 3 subnets, several firewall rules, routes, VMs, Storage, Databases and DNS. The environments need to be consistent and immutable.

Following best practice, how would you deploy the environments and make them reproducible with little overhead?

* 

**Divide the environment amongst experienced engineers, who will deploy them and be responsible for the environment’s reproduction.**

* 

**Create the environment as code using Deployment manager or Terraform templates. Assign variables to values that are unique across environments.**

* 

**Create the resources individually in the console following the documentation provided.**

* 

**Create the environment as code using python in a Cloud Function. Assign variables to values that are unique across environments**

* 

**Create the resources individually in CLI following the documentation provided**

Bottom of Form

Top of Form

Question 23:

You are working on a new application development for a gambling company. The application will utilize a microservices architecture to allow for loose coupling of the different components. You are using Cloud Build to build the docker images. You have tested the build locally using the local builder, but when you try to run the build in Cloud Build it fails.

Which of the following could be the problem?

* 

**Certain Firewall rules set in the VPC deny the Cloud Build traffic.**

* 

**Cloud Build is in a different region from where you tested.**

* 

**Certain permissions on your personal account are missing from the cloud Build service account.**

* 

**You are running multiple builds at the same time.**

Bottom of Form

Top of Form

Question 24:

You are developing a new application for a global media company. The application will serve content to users in several countries. The application needs to have a high availability and reliability. Your team has agreed on relevant SLOs and Error budget policy with stakeholders.

Which of the following is not a recommended action when the service has consumed its entire error budget?

* 

**Lowering the SLOs will provide more Error budget to work with.**

* 

**The development team gives top priority to bugs.**

* 

**To reduce the risk of more outages, a production freeze halts certain changes to the system until there is sufficient error budget to resume changes.**

* 

**The development team focuses exclusively on reliability issues until the system is within SLO.**

Bottom of Form

Top of Form

Question 25:

You are part of an on-call SRE team managing a production application. The application receives requests, processes it and returns the response to the user. A new update was deployed yesterday to introduce new features into the application. Users are now complaining about errors and failed processed requests from the application. Your team declares an incident.

Which of the following is the recommended first action after an incident is declared?

* 

**Mitigate the impact.**

* 

**Perform a root-cause analysis of the incident.**

* 

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

* 

**Assess the impact of the incident.**

Bottom of Form

Top of Form

Question 26:

You are part of an on-call SRE team managing a frontend web service application in production. The application offers an HTTP-based API that consumers can use to manipulate various data. A new version has been developed and needs to be tested with live traffic. There is a requirement to minimize the number of users that will be affected if the new version fails.

Which of the following helps you meet the requirement?

* 

**Deploy a new version to production using a canary deployment method.**

* 

**Deploy a new version to production using a Blue/Green deployment method.**

* 

**Deploy a new version to production using a Rolling update deployment method.**

* 

**Deploy a new version to production using a Red/Black deployment method.**

Bottom of Form

Top of Form

Question 27:

You are part of a team designing a containerized application to be deployed to GKE. The application will be deployed to a five-node cluster in a single region. The application will be used to process sensitive user data and there is a requirement to remove any sensitive data from the logs before it goes to Cloud Logging.

Which of the following helps you meet the requirement? Choose TWO

* 

**Enable Cloud Operations in GKE Select System and workload logging and monitoring**

* 

**Enable Cloud Operations in GKE Select Legacy logging and monitoring.**

* 

**Enable Cloud Operations in GKE Select System monitoring only (Logging disabled).**

* 

**Deploy a custom FluentD deployment to the cluster that filters out the sensitive information, so it is not logged**

* 

**Deploy a custom FluentD daemonset to the cluster that filters out the sensitive information, so it is not logged**

Bottom of Form

Top of Form

Question 28:

You are part of the DevOps team in a growing analytics company. The company currently deploys its docker applications on Virtual Machines on-premises. The company has three different environments: dev, staging and production. The company is planning to move its applications to GKE. The key requirement is the need to have the environments separate in a way the allows for restricting access using IAM policy.

Which of the following helps you meet the requirement following GCP’s best practice?

* 

**Create a VPC with three subnets in a Project, Create a GKE cluster in each subnet for the different environments**

* 

**Create three VPCs with one subnet in a Project, Create a GKE cluster in each VPC for the different environments**

* 

**Create one GKE cluster with three namespaces for the different environments**

* 

**Create three Projects, Create a GKE cluster in each Project for the different environment**

Bottom of Form

Top of Form

Question 29:

Your SRE team is responsible for monitoring and logging of the applications in different 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. A new member needs to be given access to one of the charts in the centralised dashboard for training purposes.

Which steps will help you meet the requirements? Choose TWO

* 

**View the desired Chart in Metrics Explorer Use Share by URL to get a parameterized URL for the Chart Send the URL with the new member**

* 

**Use Share by URL to get a parameterized URL for the Dashboard Send the URL with the new member**

* 

**View the desired Chart in Uptime checks Use Share by URL to get a parameterized URL for the Chart Send the URL with the new member**

* 

**Grant the new member the Monitoring Dashboard Configuration Viewer role in the monitoring Project**

* 

**Grant the new member the Monitoring Viewer role in the monitoring Project**

Bottom of Form

Top of Form

Question 30:

Your team is designing a new User-facing application to serve requests. Service Level Objectives (SLOs) have been set. Your team has been mandated to ensure the application always meets the set SLOs. Your Job is to choose Service Level Indicators (SLIs) that will allow your team effectively monitor the system so it does not breach the SLOs

Which of the following is Google's SRE suggested best practice for selecting SLIs?

* 

**Choose as many SLIs as possible to cover all aspects of the system that users interact with.**

* 

**Choose very few SLIs as possible to reduce unactionable alerts**

* 

**Discover what users expect from the system and choose SLIs to measure it.**

* 

**Allow users to feedback on issues before choosing SLIs.**

Bottom of Form

Bottom of Form