Google

Exam Questions Professional-Cloud-Developer

Google Certified Professional - Cloud Developer

NEW QUESTION 1
- (Exam Topic 1)
In order to meet their business requirements, how should HipLocal store their application state?

A. Use local SSDs to store state.
B. Put a memcache layer in front of MySQL.
C. Move the state storage to Cloud Spanner.
D. Replace the MySQL instance with Cloud SQL.

Answer: B

NEW QUESTION 2
- (Exam Topic 1)
In order for HipLocal to store application state and meet their stated business requirements, which database service should they migrate to?

A. Cloud Spanner
B. Cloud Datastore
C. Cloud Memorystore as a cache
D. Separate Cloud SQL clusters for each region

Answer: D

NEW QUESTION 3
- (Exam Topic 1)
For this question, refer to the HipLocal case study.
How should HipLocal increase their API development speed while continuing to provide the QA team with a stable testing environment that meets feature requirements?

A. Include unit tests in their code, and prevent deployments to QA until all tests have a passing status.
B. Include performance tests in their code, and prevent deployments to QA until all tests have a passing status.
C. Create health checks for the QA environment, and redeploy the APIs at a later time if the environment is unhealthy.
D. Redeploy the APIs to App Engine using Traffic Splittin
E. Do not move QA traffic to the new versions if errors are found.

Answer: B

NEW QUESTION 4
- (Exam Topic 2)
Your company needs a database solution that stores customer purchase history and meets the following requirements:
Customers can query their purchase immediately after submission. Purchases can be sorted on a variety of fields.
Distinct record formats can be stored at the same time. Which storage option satisfies these requirements?

A. Firestore in Native mode
B. Cloud Storage using an object read
C. Cloud SQL using a SQL SELECT statement
D. Firestore in Datastore mode using a global query

Answer: A

NEW QUESTION 5
- (Exam Topic 2)
You are developing an application that will allow clients to download a file from your website for a specific period of time. How should you design the application to complete this task while following
Google-recommended best practices?

A. Configure the application to send the file to the client as an email attachment.
B. Generate and assign a Cloud Storage-signed URL for the fil
C. Make the URL available for the client to download.
D. Create a temporary Cloud Storage bucket with time expiration specified, and give download permissions to the bucke
E. Copy the file, and send it to the client.
F. Generate the HTTP cookies with time expiration specifie
G. If the time is valid, copy the file from the Cloud Storage bucket, and make the file available for the client to download.

Answer: B

NEW QUESTION 6
- (Exam Topic 2)
You have an application in production. It is deployed on Compute Engine virtual machine instances controlled by a managed instance group. Traffic is routed to the instances via a HTTP(s) load balancer. Your users are unable to access your application. You want to implement a monitoring technique to alert you when the application is unavailable.
Which technique should you choose?

A. Smoke tests
B. Stackdriver uptime checks
C. Cloud Load Balancing - heath checks

D. Managed instance group - heath checks

Answer: B

Explanation:
Reference: https://medium.com/google-cloud/stackdriver-monitoring-automation-part-3-uptime-checks- 476b8507f59c

NEW QUESTION 7
- (Exam Topic 2)
Your data is stored in Cloud Storage buckets. Fellow developers have reported that data downloaded from Cloud Storage is resulting in slow API performance. You want to research the issue to provide details to the GCP support team. Which command should you run?

A. gsutil test –o output.json gs://my-bucket
B. gsutil perfdiag –o output.json gs://my-bucket
C. gcloud compute scp example-instance:~/test-data –o output.json gs://my-bucket
D. gcloud services test –o output.json gs://my-bucket

Answer: B

Explanation:
Reference: https://groups.google.com/forum/#!topic/gce-discussion/xBl9Jq5HDsY

NEW QUESTION 8
- (Exam Topic 2)
You are designing an application that consists of several microservices. Each microservice has its own RESTful API and will be deployed as a separate Kubernetes Service. You want to ensure that the consumers of these APIs aren't impacted when there is a change to your API, and also ensure that third-party systems aren't interrupted when new versions of the API are released. How should you configure the connection to the application following Google-recommended best practices?

A. Use an Ingress that uses the API's URL to route requests to the appropriate backend.
B. Leverage a Service Discovery system, and connect to the backend specified by the request.
C. Use multiple clusters, and use DNS entries to route requests to separate versioned backends.
D. Combine multiple versions in the same service, and then specify the API version in the POST request.

Answer: A

NEW QUESTION 9
- (Exam Topic 2)
You need to configure a Deployment on Google Kubernetes Engine (GKE). You want to include a check that verifies that the containers can connect to the database. If the Pod is failing to connect, you want a script on the container to run to complete a graceful shutdown. How should you configure the Deployment?

A. Create two jobs: one that checks whether the container can connect to the database, and another that runs the shutdown script if the Pod is failing.
B. Create the Deployment with a livenessProbe for the container that will fail if the container can't connect to the databas
C. Configure a Prestop lifecycle handler that runs the shutdown script if the container is failing.
D. Create the Deployment with a PostStart lifecycle handler that checks the service availabilit
E. Configure a PreStop lifecycle handler that runs the shutdown script if the container is failing.
F. Create the Deployment with an initContainer that checks the service availabilit
G. Configure a Prestop lifecycle handler that runs the shutdown script if the Pod is failing.

Answer: B

Explanation:
https://cloud.google.com/architecture/best-practices-for-running-cost-effective-kubernetes-applications-on-gke#

NEW QUESTION 10
- (Exam Topic 2)
One of your deployed applications in Google Kubernetes Engine (GKE) is having intermittent performance
issues. Your team uses a third-party logging solution. You want to install this solution on each node in your GKE cluster so you can view the logs. What should you do?

A. Deploy the third-party solution as a DaemonSet
B. Modify your container image to include the monitoring software
C. Use SSH to connect to the GKE node, and install the software manually
D. Deploy the third-party solution using Terraform and deploy the logging Pod as a Kubernetes Deployment

Answer: A

Explanation:
https://cloud.google.com/kubernetes-engine/docs/concepts/daemonset#usage_patterns DaemonSets are useful for deploying ongoing background tasks that you need to run on all or certain nodes, and which do not require user intervention. Examples of such tasks include storage daemons like ceph, log collection daemons like fluent-bit, and node monitoring daemons like collectd.

NEW QUESTION 11
- (Exam Topic 2)
You need to redesign the ingestion of audit events from your authentication service to allow it to handle a large increase in traffic. Currently, the audit service and the authentication system run in the same Compute Engine virtual machine. You plan to use the following Google Cloud tools in the new architecture:
Multiple Compute Engine machines, each running an instance of the authentication service Multiple Compute Engine machines, each running an instance of the

audit service
Pub/Sub to send the events from the authentication services.
How should you set up the topics and subscriptions to ensure that the system can handle a large volume of messages and can scale efficiently?

A. Create one Pub/Sub topi
B. Create one pull subscription to allow the audit services to share the messages.
C. Create one Pub/Sub topi
D. Create one pull subscription per audit service instance to allow the services to share the messages.
E. Create one Pub/Sub topi
F. Create one push subscription with the endpoint pointing to a load balancer in front of the audit services.
G. Create one Pub/Sub topic per authentication servic
H. Create one pull subscription per topic to be used by one audit service.
I. Create one Pub/Sub topic per authentication servic
J. Create one push subscription per topic, with the endpoint pointing to one audit service.

Answer: A

Explanation:
https://cloud.google.com/pubsub/docs/subscriber "Multiple subscribers can make pull calls to the same "shared" subscription. Each subscriber will receive a subset of the messages."

NEW QUESTION 12
- (Exam Topic 2)
Your application is logging to Stackdriver. You want to get the count of all requests on all /api/alpha/* endpoints.
What should you do?

A. Add a Stackdriver counter metric for path:/api/alpha/.
B. Add a Stackdriver counter metric for endpoint:/api/alpha/*.
C. Export the logs to Cloud Storage and count lines matching /api/alphA.
D. Export the logs to Cloud Pub/Sub and count lines matching /api/alphA.

Answer: C

NEW QUESTION 13
- (Exam Topic 2)
You are developing an internal application that will allow employees to organize community events within your company. You deployed your application on a single Compute Engine instance. Your company uses Google Workspace (formerly G Suite), and you need to ensure that the company employees can authenticate to the application from anywhere. What should you do?

A. Add a public IP address to your instance, and restrict access to the instance using firewall rule
B. Allow your company's proxy as the only source IP address.
C. Add an HTTP(S) load balancer in front of the instance, and set up Identity-Aware Proxy (IAP).Configure the IAP settings to allow your company domain to access the website.
D. Set up a VPN tunnel between your company network and your instance's VPC location on Google Clou
E. Configure the required firewall rules and routing information to both the on-premises and Google Cloud networks.
F. Add a public IP address to your instance, and allow traffic from the interne
G. Generate a random hash, and create a subdomain that includes this hash and points to your instanc
H. Distribute this DNS address to your company's employees.

Answer: B

Explanation:
https://cloud.google.com/blog/topics/developers-practitioners/control-access-your-web-sites-identity-aware-prox

NEW QUESTION 14
- (Exam Topic 2)
You want to view the memory usage of your application deployed on Compute Engine. What should you do?

A. Install the Stackdriver Client Library.
B. Install the Stackdriver Monitoring Agent.
C. Use the Stackdriver Metrics Explorer.
D. Use the Google Cloud Platform Console.

Answer: C

Explanation:
Reference:
https://stackoverflow.com/questions/43991246/google-cloud-platform-how-to-monitor-memory-usage-of-vm-in

NEW QUESTION 15
- (Exam Topic 2)
You are developing a web application that will be accessible over both HTTP and HTTPS and will run on Compute Engine instances. On occasion, you will need to SSH from your remote laptop into one of the Compute Engine instances to conduct maintenance on the app. How should you configure the instances while following Google-recommended best practices?

A. Set up a backend with Compute Engine web server instances with a private IP address behind a TCP proxy load balancer.
B. Configure the firewall rules to allow all ingress traffic to connect to the Compute Engine web servers, with each server having a unique external IP address.
C. Configure Cloud Identity-Aware Proxy API for SSH acces
D. Then configure the Compute Engine servers with private IP addresses behind an HTTP(s) load balancer for the application web traffic.

E. Set up a backend with Compute Engine web server instances with a private IP address behind an HTTP(S) load balance
F. Set up a bastion host with a public IP address and open firewall port
G. Connect to the web instances using the bastion host.

Answer: C

Explanation:
Reference: https://cloud.google.com/compute/docs/instances/connecting-advanced#cloud_iap https://cloud.google.com/solutions/connecting-securely#storing_host_keys_by_enabling_guest_attributes

NEW QUESTION 16
- (Exam Topic 2)
You are building a highly available and globally accessible application that will serve static content to users. You need to configure the storage and serving components. You want to minimize management overhead and latency while maximizing reliability for users. What should you do?

A. 1) Create a managed instance grou
B. Replicate the static content across the virtual machines (VMs)2) Create an external HTTP(S) load balancer.3) Enable Cloud CDN, and send traffic to the managed instance group.
C. 1) Create an unmanaged instance grou
D. Replicate the static content across the VMs.2) Create an external HTTP(S) load balancer3) Enable Cloud CDN, and send traffic to the unmanaged instance group.
E. 1) Create a Standard storage class, regional Cloud Storage bucke
F. Put the static content in the bucket2) Reserve an external IP address, and create an external HTTP(S) load balancer3) Enable Cloud CDN, and send traffic to your backend bucket
G. 1) Create a Standard storage class, multi-regional Cloud Storage bucke
H. Put the static content in the bucket.2) Reserve an external IP address, and create an external HTTP(S) load balancer.3) Enable Cloud CDN, and send traffic to your backend bucket.

Answer: D

NEW QUESTION 17
- (Exam Topic 2)
You are creating a Google Kubernetes Engine (GKE) cluster and run this command:

```
> gcloud container clusters create large-cluster --num-nodes 200
```

The command fails with the error:

```
insufficient regional quota to satisfy request: resource "CPUS": request
requires '200.0' and is short '176.0'. project has a quota of '24.0' with
'24.0' available
```

You want to resolve the issue. What should you do?

A. Request additional GKE quota is the GCP Console.
B. Request additional Compute Engine quota in the GCP Console.
C. Open a support case to request additional GKE quotA.
D. Decouple services in the cluster, and rewrite new clusters to function with fewer cores.

Answer: A

NEW QUESTION 18
- (Exam Topic 2)
Your team develops services that run on Google Kubernetes Engine. You need to standardize their log data using Google-recommended practices and make the data more useful in the fewest number of steps. What should you do? (Choose two.)

A. Create aggregated exports on application logs to BigQuery to facilitate log analytics.
B. Create aggregated exports on application logs to Cloud Storage to facilitate log analytics.
C. Write log output to standard output (stdout) as single-line JSON to be ingested into Cloud Logging as structured logs.
D. Mandate the use of the Logging API in the application code to write structured logs to Cloud Logging.
E. Mandate the use of the Pub/Sub API to write structured data to Pub/Sub and create a Dataflow streaming pipeline to normalize logs and write them to BigQuery for analytics.

Answer: AC

Explanation:
https://cloud.google.com/stackdriver/docs/solutions/gke/managing-logs#best_practices

NEW QUESTION 19
- (Exam Topic 2)
You are deploying a microservices application to Google Kubernetes Engine (GKE) that will broadcast livestreams. You expect unpredictable traffic patterns and large variations in the number of concurrent users. Your application must meet the following requirements:
• Scales automatically during popular events and maintains high availability
• Is resilient in the event of hardware failures
How should you configure the deployment parameters? (Choose two.)

A. Distribute your workload evenly using a multi-zonal node pool.
B. Distribute your workload evenly using multiple zonal node pools.

C. Use cluster autoscaler to resize the number of nodes in the node pool, and use a Horizontal Pod Autoscaler to scale the workload.
D. Create a managed instance group for Compute Engine with the cluster node
E. Configure autoscaling rules for the managed instance group.
F. Create alerting policies in Cloud Monitoring based on GKE CPU and memory utilizatio
G. Ask an on-duty engineer to scale the workload by executing a script when CPU and memory usage exceed predefined thresholds.

Answer: AC

NEW QUESTION 20
- (Exam Topic 2)
Your team is developing unit tests for Cloud Function code. The code is stored in a Cloud Source Repositories repository. You are responsible for implementing the tests. Only a specific service account has the necessary permissions to deploy the code to Cloud Functions. You want to ensure that the code cannot be deployed without first passing the tests. How should you configure the unit testing process?

A. Configure Cloud Build to deploy the Cloud Functio
B. If the code passes the tests, a deployment approval is sent to you.
C. Configure Cloud Build to deploy the Cloud Function, using the specific service account as the build agen
D. Run the unit tests after successful deployment.
E. Configure Cloud Build to run the unit test
F. If the code passes the tests, the developer deploys the Cloud Function.
G. Configure Cloud Build to run the unit tests, using the specific service account as the build agen
H. If the code passes the tests, Cloud Build deploys the Cloud Function.

Answer: D

NEW QUESTION 21
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