Q&As

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QUESTION 1

You are analyzing and defining business processes to support your startup\\'s trial usage of GCP, and you don\\'t yet know what consumer demand for your product will be.

Your manager requires you to minimize GCP service costs and adhere to Google best practices.

What should you do?

A. Utilize free tier and sustained use discounts. Provision a staff position for service cost management.

B. Utilize free tier and sustained use discounts. Provide training to the team about service cost management.

C. Utilize free tier and committed use discounts. Provision a staff position for service cost management.

D. Utilize free tier and committed use discounts. Provide training to the team about service cost management.

Correct Answer: D

https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#billing_and_management

QUESTION 2

You need to design a solution for global load balancing based on the URL path being requested. You need to ensure operations reliability and end-to-end in-transit encryption based on Google best practices.

What should you do?

A. Create a cross-region load balancer with URL Maps.

B. Create an HTTPS load balancer with URL maps.

C. Create appropriate instance groups and instances. Configure SSL proxy load balancing.

D. Create a global forwarding rule. Configure SSL proxy balancing.

Correct Answer: B

Reference https://cloud.google.com/load-balancing/docs/https/url-map

QUESTION 3

You are helping the QA team to roll out a new load-testing tool to test the scalability of your primary cloud services that run on Google Compute Engine with Cloud Bigtable. Which three requirements should they include? Choose 3 answers

A. Ensure that the load tests validate the performance of Cloud Bigtable.

B. Create a separate Google Cloud project to use for the load-testing environment.

C. Schedule the load-testing tool to regularly run against the production environment.

D. Ensure all third-party systems your services use are capable of handling high load.

E. Instrument the production services to record every transaction for replay by the load-testing tool.

F. Instrument the load-testing tool and the target services with detailed logging and metrics collection.

Correct Answer: ABF

QUESTION 4

Your organization wants to control IAM policies for different departments independently, but centrally.

Which approach should you take?

A. Multiple Organizations with multiple Folders

B. Multiple Organizations, one for each department

C. A single Organization with Folder for each department

D. A single Organization with multiple projects, each with a central owner

Correct Answer: C

Folders are nodes in the Cloud Platform Resource Hierarchy. A folder can contain projects, other folders, or a combination of both. You can use folders to group projects under an organization in a hierarchy. For example, your organization might contain multiple departments, each with its own set of GCP resources. Folders allow you to group these resources on a per-department basis. Folders are used to group resources that share common IAM policies. While a folder can contain multiple folders or resources, a given folder or resource can have exactly one parent.

References: https://cloud.google.com/resource-manager/docs/creating-managing-folders

QUESTION 5

Your company has multiple on-premises systems that serve as sources for reporting. The data has not been maintained well and has become degraded over time. You want to use Google-recommended practices to detect anomalies in your company data. What should you do?

A. Upload your files into Cloud Storage. Use Cloud Datalab to explore and clean your data.

B. Upload your files into Cloud Storage. Use Cloud Dataprep to explore and clean your data.

C. Connect Cloud Datalab to your on-premises systems. Use Cloud Datalab to explore and clean your data.

D. Connect Cloud Dataprep to your on-premises systems. Use Cloud Dataprep to explore and clean your data.

Correct Answer: B

https://cloud.google.com/dataprep/

QUESTION 6

You have been asked to select the storage system for the click-data of your company\\'s large portfolio of websites. This data is streamed in from a custom website analytics package at a typical rate of 6,000 clicks per minute, with bursts of up to 8,500 clicks per second. It must been stored for future analysis by your data science and user experience teams. Which storage infrastructure should you choose?

A. Google Cloud SQL

B. Google Cloud Bigtable

C. Google Cloud Storage

D. Google cloud Datastore

Correct Answer: C

https://cloud.google.com/bigquery/docs/loading-data-cloud-storage

QUESTION 7

You have an outage in your Compute Engine managed instance group: all instance keep restarting after 5 seconds. You have a health check configured, but autoscaling is disabled. Your colleague, who is a Linux expert, offered to look into the issue. You need to make sure that he can access the VMs. What should you do?

A. Grant your colleague the IAM role of project Viewer

B. Perform a rolling restart on the instance group

C. Disable the health check for the instance group. Add his SSH key to the project-wide SSH keys

D. Disable autoscaling for the instance group. Add his SSH key to the project-wide SSH Keys

Correct Answer: C

https://cloud.google.com/compute/docs/instance-groups/autohealing-instances-in-migs Health checks used for autohealing should be conservative so they don\\'t preemptively delete and recreate your instances. When an autohealer health check is too aggressive, the autohealer might mistake busy instances for failed instances and unnecessarily restart them, reducing availability

QUESTION 8

You want to automate the creation of a managed instance group and a startup script to install the OS package dependencies. You want to minimize the startup time for VMs in the instance group. What should you do?

A. Use Terraform to create the managed instance group and a startup script to install the OS package dependencies.

B. Create a custom VM image with all OS package dependencies. Use Deployment Manager to create the managed instance group with the VM image.

C. Use Puppet to create the managed instance group and install the OS package dependencies.

D. Use Deployment Manager to create the managed instance group and Ansible to install the OS package

dependencies.

Correct Answer: B

"Custom images are more deterministic and start more quickly than instances with startup scripts. However, startup scripts are more flexible and let you update the apps and settings in your instances more easily." https://cloud.google.com/compute/docs/instance-templates/create-instance-templates#using_custom_or_public_images_in_your_instance_templates

QUESTION 9

Your operations team has asked you to help diagnose a performance issue in a production application that runs on Compute Engine. The application is dropping requests that reach it when under heavy load. The process list for affected instances shows a single application process that is consuming all available CPU, and autoscaling has reached the upper limit of instances. There is no abnormal load on any other related systems, including the database. You want to allow production traffic to be served again as quickly as possible.

Which action should you recommend?

A. Change the autoscaling metric to agent.googleapis.com/memory/percent_used.

B. Restart the affected instances on a staggered schedule.

C. SSH to each instance and restart the application process.

D. Increase the maximum number of instances in the autoscaling group.

Correct Answer: D

Reference: https://cloud.google.com/blog/products/sap-google-cloud/best-practices-for-sap-app-server-autoscaling-on-google-cloud

QUESTION 10

You are developing your microservices application on Google Kubernetes Engine. During testing, you want to validate the behavior of your application in case a specific microservice should suddenly crash. What should you do?

A. Add a taint to one of the nodes of the Kubernetes cluster. For the specific microservice, configure a pod anti-affinity label that has the name of the tainted node as a value.

B. Use Istio\\'s fault injection on the particular microservice whose faulty behavior you want to simulate.

C. Destroy one of the nodes of the Kubernetes cluster to observe the behavior.

D. Configure Istio\\'s traffic management features to steer the traffic away from a crashing microservice.

Correct Answer: B

Microservice runs on all nodes. The Micro service runs on Pod, Pod runs on Nodes. Nodes is nothing but Virtual machines. Once deployed the application microservices will get deployed across all Nodes. Destroying one node may not mimic the behaviour of microservice crashing as it may be running in other nodes. link: https://istio.io/latest/docs/tasks/traffic-management/fault-injection/

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QUESTION 11

Your organization has decided to restrict the use of external IP addresses on instances to only approved instances. You want to enforce this requirement across all of your Virtual Private Clouds (VPCs). What should you do?

A. Remove the default route on all VPCs. Move all approved instances into a new subnet that has a default route to an internet gateway.

B. Create a new VPC in custom mode. Create a new subnet for the approved instances, and set a default route to the internet gateway on this new subnet.

C. Implement a Cloud NAT solution to remove the need for external IP addresses entirely.

D. Set an Organization Policy with a constraint on constraints/compute.vmExternalIpAccess. List the approved instances in the allowedValues list.

Correct Answer: D

https://cloud.google.com/compute/docs/ip-addresses/reserve-static-external-ip-address

https://cloud.google.com/compute/docs/ip-addresses/reserve-static-external-ip-address#disableexternalip

You might want to restrict external IP address so that only specific VM instances can use them. This option can help to prevent data exfiltration or maintain network isolation. Using an Organization Policy, you can restrict external IP addresses to specific VM instances with constraints to control use of external IP addresses for your VM instances within an organization or a project.

QUESTION 12

An application development team believes their current logging tool will not meet their needs for their new cloud-based product. They want a bettor tool to capture errors and help them analyze their historical log data. You want to help them find a solution that meets their needs, what should you do?

A. Direct them to download and install the Google StackDriver logging agent.

B. Send them a list of online resources about logging best practices.

C. Help them define their requirements and assess viable logging tools.

D. Help them upgrade their current tool to take advantage of any new features.

Correct Answer: C

Help them define their requirements and assess viable logging tools. They know the requirements and the existing tools\\' problems. While it\\'s true StackDriver Logging and Error Reporting possibly meet all their requirements, there might be other tools also meet their need. They need you to provide expertise to make assessment for new tools, specifically, logging tools that can "capture errors and help them analyze their historical log data".

References: https://cloud.google.com/logging/docs/agent/installation

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QUESTION 13

You are running a cluster on Kubernetes Engine to serve a web application. Users are reporting that a specific part of the application is not responding anymore. You notice that all pods of your deployment keep restarting after 2 seconds. The application writes logs to standard output. You want to inspect the logs to find the cause of the issue. Which approach can you take?

A. Review the Stackdriver logs for each Compute Engine instance that is serving as a node in the cluster.

B. Review the Stackdriver logs for the specific Kubernetes Engine container that is serving the unresponsive part of the application.

C. Connect to the cluster using gcloud credentials and connect to a container in one of the pods to read the logs.

D. Review the Serial Port logs for each Compute Engine instance that is serving as a node in the cluster.

Correct Answer: B

QUESTION 14

Mountkirk Games wants you to secure the connectivity from the new gaming application platform to Google Cloud. You want to streamline the process and follow Google-recommended practices. What should you do?

A. Configure Workload Identity and service accounts to be used by the application platform.

B. Use Kubernetes Secrets, which are obfuscated by default. Configure these Secrets to be used by the application platform.

C. Configure Kubernetes Secrets to store the secret, enable Application-Layer Secrets Encryption, and use Cloud Key Management Service (Cloud KMS) to manage the encryption keys. Configure these Secrets to be used by the application platform.

D. Configure HashiCorp Vault on Compute Engine, and use customer managed encryption keys and Cloud Key Management Service (Cloud KMS) to manage the encryption keys. Configure these Secrets to be used by the application platform.

Correct Answer: A

QUESTION 15

All compute Engine instances in your VPC should be able to connect to an Active Directory server on specific ports. Any other traffic emerging from your instances is not allowed. You want to enforce this using VPC firewall rules. How should you configure the firewall rules?

A. Create an egress rule with priority 1000 to deny all traffic for all instances. Create another egress rule with priority 100 to allow the Active Directory traffic for all instances.

B. Create an egress rule with priority 100 to deny all traffic for all instances. Create another egress rule with priority 1000 to allow the Active Directory traffic for all instances.

C. Create an egress rule with priority 1000 to allow the Active Directory traffic. Rely on the implied deny egress rule with priority 100 to block all traffic for all instances.

D. Create an egress rule with priority 100 to allow the Active Directory traffic. Rely on the implied deny egress rule with priority 1000 to block all traffic for all instances.

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Correct Answer: B

https://cloud.google.com/vpc/docs/firewalls

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