Architecting with Google Compute Engine Class Questions (GCP-460)

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No	Questions	
1	Which of the following commands will create a a compute instance named instance1?	
	() gcloud compute instance create instance1	
	() gcloud compute instances new instance1	
	() gcloud compute instance create instance1	
	() gcloud compute instances create instance1	
2	Which of the following are valid tools for managing Google Cloud Platform resources? (Choose Two)	
	[] GCP Console	
	[] git	
	[] icloud	
	[] gcloud	
3	You need to manage GCP resources from your computer and decide to install the gcloud command-line tools to make this easier. What must you install on your system to do this?	
	() Python version 3.X	
	() Cloud Shell	
	() Cloud SDK	
	() GCP Console	
4	Which of the following commands will creagte a Cloud Storage bucket with the name bucketname20200101?	
	() gsutil new instance gs://bucketname20200101	
	() gsutil new bucket gs://bucketname20200101	
	() gsutil mb gs://bucketname20200101	
	() gsutil create bucket gs://bucketname20200101	
5	The port numbers used in a firewall rule need to be modified. What is the best way to accomplish this?	
	() Modify the existing rule and save the changes	
	() Delete the rule and create a new one	
	() Disable the rule and create a new one	
	() Create a new rule to update the existing one	
6	The developers from different teams need to collaborate on a project which will use VMs and other resources on the same network. They currently manage resources in separate organization projects that each team administers separately. How should the new VPC network they need be configured?	
	() Create a VPC Network in one project and share the network	
	() Create a VPC Network in one project and share the project	

	()	Create a VPC Network in one folder and share the folder
	()	Create VPC Networks in each project and peer them together
7		creating three VPC Networks for the development department that will be configured for testing
	,	their local region. No special subnet or IP configurations are required at this stage. What's the best strategy for getting the networks up and running?
	()	Create three VPC networks using automatic subnet creation mode
	()	
	()	Create three VPC networks using custom subnet creation mode
	()	Use the default VPCs available but customize the firewall rules
	()	Use the default VPCs available in your project
8		e creating a new firewall rule that will apply only to MySQL VM instances. How should the rule be red to ensure it does not apply to other VMs?
	()	Ensure the firewall rule only applies to TCP port 3306 for egress operations
	()	Ensure the firewall rule is applied to all networks that host MySQL VMs
	()	Ensure the firewall rule only applies to TCP port 3306 for ingress operations
	()	Use the tag parameter in the rule and match it to a unique tag assigned to MySQL VMs
9		ed to configure firewall rules for all three Virtual Private Clouds in your GCP project. The rule settings identical. How should this be done?
	()	Configure a firewall rule for each VPC
	()	Use the same firewall rule for all VPCs
	()	Configure two firewall rules. One for public networks and another for private networks.
	()	Configure two firewall rules. One for allow rules and another for deny rules.
10		ve been made a member of the Owner role at the Organization level in IAM. You are unable to delete
		et in one of the projects that you administer. What could be the cause of this issue?
	()	The Owner role permissions have been limited at the project or VPC network level
	()	The organization permissions are not being inherited at the project where the subnet is located
	()	The subnet must be disabled first and then deleted
	()	The subnet still has resources in it
11		of the following best describes the outcome of running the following command: gcloud compute ses create instance1preemptibleno-boot-disk-auto-delete
	()	Create an instance named vm1 that is preemptible and deletes the boot disk when the instance is deleted
	()	Create an instance named vm1 that is not preemptible and keeps the boot disk when the instance is deleted
	()	Create an instance named vm1 that is not preemptible and deletes the boot disk when the instance is deleted

	()	Create an instance named vm1 that is preemptible and keeps the boot disk when the instance is deleted
12	Which of the following methods provides the most efficient way of adding a new drive to an existing VM instance?	
	()	Create an image and build a new VM with the additional drive
	()	Edit the instance and add the drive without changing the state of the VM
	()	Stop the VM and add the drive
	()	Reset the VM and add the drive
13		velopment team is requesting that remote access be allowed to their VMs. They will be using SSH for these connections to Linux systems. What protocol and port number must the firewall allow?
	()	tcp:443
	()	tcp:22
	()	tcp:3389
	()	udp:3389
14	You ned	ed to upgrade the CPU of one of your VMs running a web app. What must you do before performing ange?
	()	Create an image and build a new VM using the new CPU settings
	()	Stop the VM
	()	Reset the VM
	()	Upgrade the CPU without changing the running state
15		e migrating on-premises servers to GCP virtual machines. Which of the following are valid features of cances? (Choose Three)
	[]	Migrate instances with no downtime
	[]	Configure with auto-scaling
	[]	disks can be sized up to 128 TB
	[]	Resize hard-drives with no downtime
16		ed to create a managed instance group for a development project that is not mission critical. The cost be reduced as much as possible. What type of instances will you use?
	()	Preemptible
	()	1 year commitment
	()	3 year commitment
	()	On-demand
17	is being	policy allowing each of the four development teams to control access to resources they manage in GCP implemented. Each team has one or more projects. How can your organization heirarchy be do to accommodate this new policy?
	()	At the folder level, create a project for each team
	()	At the project level, create a folder for each team
	()	At the organization level, create a project for each team
	()	At the organization level, create a folder for each team

18	to it w	experienced administrator has created a folder in your IAM Organization and given himself permission ithout assigning access to senior level administrators. What must you do to ensure that administrators organization level of the IAM heirarchy still have access to the folder?
	()	Manually assign permissions to the folder
	()	Add the AllAuthenticatedUsers group to the folder and configure it to inherit permissions.
	()	Delete the folder. Create it again and configure it to inherit permissions.
	()	Nothing.
19	that yo	rrently have Viewer permissions at the Organization level in GCP. Your new responsibilities require ou create Projects for the development teams when necessary. How can you be assigned the sions you need for the new role?
	()	Your existing permissions allow you to create Projects
	()	You need to be added to the Super administrator role
	()	You need to be added to the Project Creator role
	()	You need to be added to the Organization Admin role
20	Which project	IAM role will you use to give a new administrator full control of any Compute Engine resource in his t?
	()	Compute Admin
	()	Network Admin
	()	Storage Admin
	()	Service Account Admin
21	;	nply with new company policies, data saved in designated Cloud Storage buckets must be protected eletion for at least 2 years. How can you enforce this policy?
	()	Configure a retention policy on the designated buckets
	()	Delete the buckets and create new ones that have an assigned retention policy
	()	Enable fine-grained access control so you can assign the same rules for all files in the bucket
	()	Enable bucket-level access control so you can assign the same rules for all files in the bucket
22		ed a NoSQL database supports ACID transactions. It will be used as the backend for a web application ill be used globally. Which of the following solutions will best meet your needs?
	()	BigTable
	()	Cloud SQL
	()	BigQuery
	()	Firestore
23	premis	oject lead for a mission critical database has requested a lift and shift deployment to GCP for the on- ses MySQL database it supports. They insist that no unnecessary changes be made to support legacy ations. How will you fulfill their request?
	()	Migrate the database to Cloud Spanner and help the team to make the needed changes to take advantage of the serverless configuration

	()	Choose an appropriate Compute Engine Instance and use it to deploy a customized MySQL database setup that meets their specifications
	()	Migrate the database to Cloud SQL and help the team to make the needed changes to take advantage of the serverless configuration
	()	Migrate the database to BigTable and help the team to make the needed changes to take advantage of the serverless configuration
24		premises MySQL database will be migrated to GCP and you need a quick solution that won't require changes to the front-end applications that use it. Which solution is best for this scenario?
	()	Cloud Spanner
	()	Cloud SQL
	()	BigTable
	()	BigQuery
25		ll be using Cloud Storage to archive data that may be queried a few times a year. Which class of e will best meet your needs?
	()	Standard (Multi-Regional)
	()	Nearline
	()	Coldline
	()	Standard (Regional)
26		application requires a NoSQL database that requires no administration by the developers using it. of the following GCP solutions will be the best choice for them?
	()	MongoDB
	()	Cloud SQL
	()	Firestore
	()	Bigtable
27		ve more than 200 TB of archived data in Cloud Storage that is accessed rarely. At most, once per year. In you reduce the cost of storing these files?
	()	Classify all the archived records as Coldline
	()	Create a bucket that uses a storage class of Coldline and move all the files to it
	()	Create a lifecycle rule to classify the archived records as Coldline after 365 days of non-use
	()	Move the archived files to a BigQuery table where they will be automatically compressed
28		development project requires a data warehouse that can be queried using standard SQL. The database be optimized for analysis purposes. Which of the following platforms best meets these criteria?
	()	Cloud Bigtable
	()	BigQuery
	()	Cloud Spanner
	()	

29	The migration of all on-premises database clusters has been approved. The GCP project hosting the new servers must support at least 48 CPUs and 12 VMs. What must you do before the migration to support the new infrastructure?	
	()	Create two projects to accommodate the new servers
	()	Create at least three projects to accommodate the new servers
	()	Request at least 12 permanent Internet IPs for the servers
	()	Request a quota adjustment to accommodate the CPUs
30		company policy now requires that each development team manage its own budget and billing. Which following configurations will allow this policy to be implemented?
	()	Create a project for each team and use the same billing account for all of them
	()	Create a folder for each team and give each of them their own billing account
	()	Create a folder for each team and use the same billing account for all of them
	()	Create a project for each team and give each of them their own billing account
31		past few months, the billing costs for GCP resources has been higher than expected. You want to atically prevent cost from exceeding a preset limit for the ABTesting2020 project. How can this be
	()	Create an alert to disable the project when the budget reaches a certain level
	()	Use a Cloud Function to automatically stop or terminate all processes in the project when the budget level is reached
	()	Use a Cloud Function to automatically disable billing on the project when the budget level is reached
	()	Create an alert so you are notified when the budget reaches a certain level, then disable Billing on the project
32	same c	ve configured a Workspace to monitor resources in a project and other development teams want the appability. Each team must only have access to the logs for their own project(s). How should the pace(s) be configured?
	()	Create a Workspace for each project
	()	Create a Workspace for each development team
	()	Use the existing Workspace and configure access to each assigned project appropriately
	()	Use the existing Workspace and the permissions assigned to each project will be inherited automatically
33	and oft	ompany has offices in different regions. Project teams move from location to location when needed ten share resources when collaborating. How can you configure the network to allow two teams that parate projects to share and excahnge data in their respective VPC networks?
	()	Use a NAT Gateway to connect the VPC networks
	()	Configure VPC Sharing
	()	Configure VPC Peering
	()	Use a VPN Gateway to connect the VPC networks

34	The new migration strategy for on-premises resources will require Internet connection links of at least 8 Gbps. Which of the following options may meet this requirement? (Choose two)		
	[]	VPN Tunnel	
	[]	Partner Interconnect	
	[]	GCP Edge Point	
	[]	Dedicated Interconnect	
35		am is configuring a Cloud VPN to connect the on-premises and GCP networks. Which of the following nents are required for the VPN network? (Choose Three)	
	[]	Cloud VPN Gateway	
	[]	Cloud Router	
	[]	Shared VPC	
	[]	NAT Gateway	
	[]	VPN Gateway	
	[]	VPN Tunnels	
36	location	kisting network connects on-premises and GCP resources that belong to the same region. A new n is being added from another region and you need to automatically maintain the routing tables as s are added and changed. What resuorce will you add to accomplish this?	
	()	Cloud VPN	
	()	VPC Network	
	()	Cloud Router	
	()	Dedicated Interconnect	
37	;	naged instance group supporting your web application has failed VMs that must be manually removed gular basis. How can you automate the removal of these failed systems?	
	()	Create a health check that tests the appropriate ports on the VMs	
	()	Increase the numbe of active nodes in the managed instance group	
	()	Use stackdriver alerts to automatically check for failed services and notify you	
	()	Use stackdriver alerts to automatically check for failed services and remove the VMs	
38		e using HTTPS load balancing for your managed instance group. How many IP addresses do you need ernet traffic?	
	()	One for each active instance	
	()	One for each zone	
	()	One	
	()	One for each region	
39		managed instance group has been setup to manage a critical production application. How can you that new instances are deployed quickly when the server load increases?	
	()	Specify a target CPU utilization in the autoscaling policy	
	()	Create an alert so you are notified when the CPU utilization reaches a specified limit so you can make adjustments	

	() Configure autoscalling to add new instances when the number of users reaches a specified number	
	() Create an alert event to start a Cloud Function that will automatically start new instances	
40	You are creating a new managed instance group to support the testing of a new application. It should add and remove instances when needed and protect against single domain failure. Which of the following configurations should you use?	
	() Use a multi-zone configuration and enable autoscaling	
	() Use a single-zone configuration and enable autoscaling	
	() Use a single-zone configuration and disable autoscaling	
	() Use a multi-zone configuration and disable autoscaling	
41	You want to manage the configuration files used to deploy your GCP infrastructure using Python since all the members of your team are comfortable using it. What is the best tool to use in this scenario?	
	() Python	
	() Deployment Manager	
	() Terraform	
	() Ansible	
42	Which of the following services will allow you to manage the configuration of VMs on AWS, Azure and GCP?	
	() Cloud Shell	
	() Deployment Manager	
	() Ansible	
	() CloudFormation	
43	You need to create templates for deploying multi-cloud infrastructure networks in GCP and AWS. Which of the following tools is best suited for this task?	
	() Cloud Shell	
	() Deployment Manager	
	() Terraform	
	() CloudFormation	
44	A standardized model has been agreed upon for new network infrastructure deployments that will be used by the development teams in future projects. What is the best way to deploy and edit these models?	
	() shell script	
	() gsutil script	
	() Deployment Manager	
	() gcloud script	
45	Cloud dataflow is being used to process streaming data before it is loaded into a BigQuery table. It has been decided to also batch load data into BigQuery from other sources that are storing them in Cloud Storage. The same processing rules used for the streaming data in dataflow will be applied. What is the best service to use for the batch process?	
	() Dataproc	
	() Dataflow	
	() Cloud Function	
	() BigQuery	

Instead of doing a lift and shift, your management team has decided to migrate existing Hadoop jobs to leverage managed GCP services. Which of the following services can replace the on-premises Hadoop clusters?		
	()	Dataprep
	()	Dataflow
	()	Dataproc
	()	Cloud Storage
You need a managed service for transforming and processing large amounts of data that will be lo data warehouse. Which of the following services can accomplish this?		ed a managed service for transforming and processing large amounts of data that will be loaded into a arehouse. Which of the following services can accomplish this?
	()	Dataflow
	()	BigQuery
	()	Dataprep
	()	Bigtable
48		migrating CSV files from Cloud Storage to BigQuery, you need to visually inspect the records and make cations where necessary. What is the best tool for this task?
	()	Dataproc
	()	Pub/Sub
	()	BigQuery
	()	Dataprep
49		mises services migrated to Cloud Dataproc generate alot of data that must be stored when the same same same should it be stored?
	()	BigQuery
	()	Bigtable
	()	Cloud Storage
	()	HDFS
50		om many IoT devices must be processed by dataflow before it is ingested into BigQuery. What service sure that the data is streamed into dataflow consistently regardless of the input load?
	()	BigTable
	()	Pub/Sub
	()	Cloud Function
	()	Cloud Storage