

Fundamentals:

1. What is the cloud? What are the cloud service models? How many service models have you used in your current or previous project
2. What is Google Cloud Platform ?
3. What is the IAAS resource in GCP? How are they different from PAAS service? Can you give an example of the same
4. Why legacy infrastructure struggles to deliver modern services to customers? How does the cloud provider overcome these challenges?
5. What are the different types of clouds available, can you explain the differences between them?
6. Through how many ways can we interact with Google Cloud ?
7. How can a new customer onboard Google Cloud, do u have any experience in that on boarding. If so , what areas will you be considering for this exercise?
8. What is scalability vs Elasticity ?
9. What is the IAAS resource in GCP?
10. When you onboard a customer to GCP, what is the process u take or implement.
11. What are the available options to connect to GCP.
12. How are regions and zones different
13. How can we differentiate a region with a zone?
 - We will be having -alphabets for the zone
14. How many data centers a regions supports ?
 - Regions doesn't directly support datacenters, Datacenters will be under zones.
 - Min 2 datacenters,
15. Can i deploy my web application in a specific datacenter ?
 - Nooooo, we have control at the zoneal level only.

Project Related:

16. Can you explain the project hierarchies in google cloud.
17. Is it mandatory that, every principle should be able to see organisations ?
 - No, only principle with role Organisation Viewer
18. Can we have 2 organisations for a principle ? Yes

19. How are organisations different from Folders?

- Organisations are company accounts,
- Whereas folders are grouping of the projects or other folders.

20. Why do we need projects? and what's the main intention of creating a project for your applications?

- We need projects for managing resources
- Enable permissions to their respective principal (IAM accounts)
- We can track billing per project based on the resources used.
- We can distinguish between environments.
- Can I restrict resource usage in the project
 - By enabling or disabling services API's

21. Have you ever implemented Folders in your project, if so what's the use case.

- We are using folders to combine all the separate environments.
- We do this because we want developers to have access to all the dev projects.
- Instead of giving them the access at the individual project level, we combined them into a folder and provided access at the folder level.

22. Can I create a resource (let's say a VM) in a folder? No

23. If I am having a project in folder-a, can I move the project to folder-b? If yes, then what things I need to consider.

- We can move from folders a to folder b, we need to check the permissions and **resource quota**, check the billing part.

24. What are the identifiers that get generated when you are creating a project?

- Myself I have created many projects for different applications.
- When we create a project, we get 3 identifiers and those are
 - Project ID
 - Will be unique across GCP, and it will automatically be generated
 - Project Number:
 - Is automatically generated and is unique across GCP
 - Project Name:
 - I keep them based on the requirement,
 - Basically we have projectname-env

25. Let's say you have mistakenly created a project-name, can this be changed in the later stage.

- Yes we can change project name even after creation.

26. Can I have 2 projects with the same name under the organisation?

- We can, but we can differentiate them with Project ID.

27. Can I change projectID and ProjectNumber after it's created.

- No , we cant change Project ID and number once they are created
- But, during the project creation, i can keep the project id based on my requirement, this is the only time project id can be changed.

28.I want to make my own project number, is it possible?

- No, project number will be given by Google after createion of project is successful.

29.Can a Principal(user) have access to 2 organisations ?

- Yes he/she can have.

30.Does the organisation have an ID ?

- Yes, we will be having an org id for each organisation.
-

31.What happens to the resources when we delete the project ?

IAM:

32.So what exactly is an IAM ?

33.Who is member/ Identity/principle

34.How come you authenticate to **console.cloud.google.com** in your organisation?

- It is integrated with Organisational MSID.
 - This is achieved by Cloud identity
- We are having workspace licences to our organisation, so with that we are directly login to the cloud.

35.In your organisation, do you know how people's accounts are created ?

36.Have you ever worked on **admin.google.com**, if so why have you used that ?

- I haven't worked on admin.google.com, but i knew that all the users , groups are getting creating from there.
- And the prg policy for all the users will be implemented at that level .\

37.If we want to elaborate the **who**, in how many ways can the identity be defined ?

- Identity can be defined with the following :
 - People accounts
 - Personal accounts
 - Workspace accounts(Previosu name GSuite)
 - Cloud Identity accounts
 - Service accounts or machine accounts or non-human accounts .

38.Can we have organisations for personal identities?

- No , we can't

39.What are GSuite and Cloud Identity accounts?

40. Are you implementing any Google Groups in your projects, if so how ?

41. What are special account types in GCP

- **allAuthenticatedUsers**
 - Special identifiers to represent any google account.
 - This will only allow authenticated user, and not anonymous users.
- **allUsers**
 - This is another special identified,
 - Anyone from everywhere can access.

42. What are Roles ?

43. Can you explain the difference between Primitive , predefined and custom roles.

44. Have you created any custom roles, if so can you explain for what purpose its created

45. What are policies in IAM ?

- Group of bindings.
 - <https://cloud.google.com/iam/docs/reference/rest/v1/Policy>
- A binding binds one or more members, or principals, to a single role. Principals can be user accounts, service accounts, Google groups, and domains (such as G Suite).

46. What are service accounts, and can you elaborate the difference b/w service accounts and human accounts.

47. What are the types of service accounts can be created

- User Managed
 - Google Created
 - PROJECT_NUMBER-compute@developer.gserviceaccount.com
 - User Created
 - SERVICE-ACCOUNT-NAME@project-id.iam.gserviceaccount.com
- Google Managed
 - PROJECT-NUMBER@cloudservices.gserviceaccount.com

48. What are Google Managed service accounts, if we delete them can we restore them ?

- No, We cant restore.

49. How can Service accounts authenticate to Google?

- Keys, we will be creating a JSON file.

50. What if service account keys are compromised, how would you handle the situation?

- We can create a new key and share across the app team.

51. Where are service accounts created and user accounts created ?

- User account are created outside GCP
- Service accounts are created inside GCP

52. Are service account, Org scoped or Project Scoped ?

- These are Project Scoped.

CommandLine:

53.What is cloud SDK?

54.Why do we really need CLI ?

55.Have you ever worked on CLI ? If so , what would be the format for any command?

56.Can I have multiple configurations setup in the Cloud Shell?

- We can have multiple configurations created
- But, at any given point of time, we will be having only one configuration actively.

57.Can I have shell setup in my chrome book ?

- No, chromebooks will not have a terminal.
- For them they can use Cloud Shell.

VPC

58.What is a VPC, can you please explain in detail.

59.Can we create a VPC in the folder ?

60.What is RFC 1918

61.How many VPC will be available by default ?

62.Is it a good practise to have default network created out of the box ?

- No, as default networks opens subnets in all regions
- 4 firewall rules
 - 22==> 0.0.0.0/0
 - 3389 ==> 0.0.0.0/0
 - Icmp ==> 0.0.0.0/0
 - Internal ==> 65535

63.How can i make sure default network will be not be created during project creation ?

- Using Organisation policy called "SkipDefaultNetworkCreation".

64.How is VPC different compared to traditional networks?

65.What are the types of vpc's we can create in GCP.

- 2 types of vpc:
 - Custom
 - Auto

66.What is the default VPC. Can we delete the default vpc ?

67.How is the auto mode network created ?

68.Can we modify or delete the subnets which are created automatically by the default vpc or auto mode vpc.

- No, We cant modify nor delete the ranges or subnets for default vpc(auto created)

69.Can we create 2 subnets in the same region?

- Yes , we can create,

70.Can CIDR of subnets overlap in the same vpc ?

- No, it should not overlap

71.What ip ranges are allowed in creating a subnet

- The Internet Assigned Numbers Authority (IANA) has reserved the following three blocks of the IP address space for private internets:
 - 10.0.0.0 - 10.255.255.255 (10/8 prefix)
 - 172.16.0.0 - 172.31.255.255 (172.16/12 prefix)
 - 192.168.0.0 - 192.168.255.255 (192.168/16 prefix)

72. Can i have VPC in one range and subnetworks in different range

- VPC in google cloud is not having any range like AWS, Azure

73.Is VPC Zonal, regional or global ?

- VPC can be regional or global

74.If we have 2 vpc's(vpc-1, vpc-2) can we have the same subnet CIDR range in both the VPC

- We can have technically.

75.If we have 2 vpc's(vpc-1, vpc-2) can we have the same **subnet name** in both vpc

- No, because when we create a VM, we explicitly specify the name of the subnet not the name of the VPC.

76.What's the main advantage of auto-vpc?

77.Is auto vpc recommended , what are your ideas on that.

- No its not recommended

78.In your project are use using auto-vpc or custom-vpc.

- Custom vpc only.

79.In your project, some one has already created a auto-vpc, can that be converted to custom-vpc and vice-versa

- Yes we can convert.
 - But conversion can happen from Auto to Custom, but not vice versa

80.Is subnet a region zonal or regional or global based

- Subnet is regional Scoped.

81.Is VPC regional or Global.

- Both

82.Do you have any understanding on Reserved IP Addresses in VPC.

83.Is Subnet expanding possible, if so can you explain a scenario which can be expanded.

- Yes, we can expand.

84.Scenario:

- There is a vm called (instance-1) in us-central1 under vpc-1.

- There is another vm called(instance-2) in asia-east-1 under vpc-1, can these 2 vms communicate with each other by default. If so, how is this happening?
- There is one more vm called (instance-3) in us-central-1 under vpc-2, can instance-1 and instance-3 communicate with each other

Firewalls::

- 85.What does a firewall do in GCP VPC?
- 86.How is it different from traditional firewalls?
- 87.Are firewalls implemented at the VPC level ? or Subnet or Instance level.
- 88.How can I enforce a firewall rule to impact a particular virtual machine?
- 89.Have you ever used tags in your project, if so can you elaborate why we need tags.
- 90.Are tags and labels the same ?
- 91.What are the firewalls rules that come with default VPC.
- 92.How can i stop default-vpc being created as soon as the project gets created.

VPC Peering :

- 93.What is VPC Peering ?
- 94.Is VPC Peering and Cloud Perring the same ?
 - No, vpc peering and network peering are the same
 - Cloud peering is a option for hybridconnectivity
- 95.Can I establish a VPC Network Perring between 2 VPC's in different projects ?
 - If so , what are the required parameters ?
 - ProjectId, and NetworkName(VPC) are needed
- 96.Can I establish a VPC Network Perring between 2 VPC's in different organisations in gcp ?
 - Yes, we can .
- 97.Can I establish a VPC Network Perring between 2 VPC's from my onprim cloud to GCP ?
 - No
- 98.There is a network tag as **deny-vm** in **vpc1** , and I don't want the vm to communicate to my **vm2** in **vpc2**. **Can I** create a fw rule to **deny** the traffic using a **network tag** created in a different vpc ?
 - No
- 99.If i an having a firewall open in vpc1, and i peered vpc1 to vpc2 , now can the firewall opened in vpc1 be applicable to vpc 2 ?
 - NO

100. Can the same above example be filtered using a Service account ?
101. There are 2 vpcs, vpc-1 and vpc-2 , and i have created a firewall rule to allow port 22 in vpc1, and now i have successfully established a connection to vpc2 , can i login to vms created in vpc2, with the same firewall i created in VPC 1 ?
102. What is transitive peering, does GCP support the same ?
103. Can I have the VPC peering successfully created from establishing a vpc peering from one network ?
104. Why are we going to VPC peering , when the same can be established using VPN
105. What is a shared VPC ?
106. Have you implemented SHared VPC in your org ?
 - If so, what are the roles you need to have ?
107. Have you ever or used a subnet which has been created by someone else?
 - If so, what are the roles that you need to have ?
108. Can I hide any subnet not to share to other projects, using shared vpc ?
109. How is standalone project different to shared project
 - In Standalone project, it has its own network and subnets,
 - Whereas in shared vpc, we usually get subnet from other projects.
110. Let's say there are 3 projects, Service project A, hostproject 1, host project 2
 - Can service project A, be a part of both host project 1 and host project 2 ?
111. Number of host projects to which a service project can attach ? Answer : 1
 - The limit can not be increased
112. Number of Service projects that can be attached to a host project ? Answer : up to 100
 - You can contact the gcp sales team to increase
113. Number of shared vpc projects in a single organisation ? ANswer 100
 - You can contact the gcp sales team to increase
114. Can I implement Shared vpc for Google cloud storage buckets ? Answer NO
115. Can I consume a subnet created in a vpc from a different organisation ? NO
116. Can existing projects use shared vpc. Answer : Yes
117. Can existing instances use shared vpc ? Answer: NO

Compute Engine:

118. Is GCE IAAS , PAAS or SAAS ? Answer: IAAS
119. What sort of instance are you having in your project?
 - Answer: We are using Linux machines,
120. Is compute engine Zonal or Regional ?

- Its Zonal in scoped, we cant directly change the zone by editing.
121. What are the machine types available.
122. What are shielded VM's ?
123. How are you connecting to your linux machines ?
- We are having multiple options to connect, of which we have created our own keys and placed them in the metadata section.
124. Which key have you place in your metadata section:
- Public key
125. Lets say, you need to give permissions to connect to 3 members, of which 2 are devs and need to have access across all the vms in your project, and 1 is qa who should have access to a particular vm, how can this be achieved ?
- Option1 : I can have os-login given at the instance level for qa and project level for devs.
 - Option 2 : I can place the dev person keys at the project metadata level, and qa person keys at the instance metadata level.
126. What machine types are you using in your project ?
- For dev/qa environment, we are going for n1-standard-1
 - For stage/prod we have e2-standard-4
127. I want to have a high performance vm, for that i want to have Ubuntu on a local ssd , how can u implement this ? Can you tell me the gcloud command which will work ?
- We can't have local ssd as a boot disk, still if we want high performance we can choose SSD in persistent disk .
128. In your project, how are you implementing a backup mechanism for your VM ?
- We can take snapshots of each disk.
129. So, are you taking the snapshots manually ? or do we have any mechanism to take the snapshots in an automated fashion, if so how ?
- We can for for Automated schedules.
130. What is the difference between images and snapshots ?
- Both image and snapshots are used to create vms.
 - Image is meant to create a vm, with some preconfigured packages.
 - Snapshots will be acting as a back up purpose, at the same time in snapshots we can have incremental backups.
 - That's not possible in images.
 - Snapshots are specific to a project, whereas images can be across project and organisations as well .
131. What's the difference b/w public image and customer image ?
- Anyone can access public images,

- Customer image are specific to my project, i need to give access to whomsoever want to get the access,
132. Can snapshots be created to Local SSDs ? No , snapshots can only be created to PD's
133. What are Managed Instance Group ?
134. I want to create 10 vms at a single go, what your approach ?
- I can create a shell script with for loop, and using gcloud command .
 - We can create Instance Templates .
135. Can i create a single vm with instance template ?
- Yes
136. What's the difference between MIG and an Un-managed group ?
- Managed instance groups are created using Templates.
 - In UMIG, we can group multiple vms
137. You have 3 vms created from a IG1 , can i stop a particular VM ?
- No , if required i can do the change at the IG level.
138. Unfortunately, ur team member has created a vm in asia-south-1, but it should have been created in us-central-1 , how can this be restricted ?
- As a best practise, i can create subnet in a specific region, without a subnet no one can create a vm .
139. Can the Boot disk be non persistent or local disk ? No , the boot disk should be only persistent. It can be SSD, Balanced,Standard,Extreme.
140. We are using a default network, how can the above scenario be restricted ?
- We can use organization policy
 - constraints/gcp.resourceLocations
141. When creating images , can the primary VM be in the running state ? No, we should stop the VM , and then initiate the Image process.
142. We created an instance for Web Server , with configuration 2cpu, 4gb ram. After some time we realised that this machine is not capable enough for our traffic,
- Can we change the configuration of the machine , after it got created ?
 - We can't change the configuration while the machine is in running state.
 - We need to stop the instance, edit the machine
 - Ex: i can increase from f1-micro to g1-small
143. Silva has wrongly created an instance in us-central1-a , but the client is expected to be in us-central1-b, can we change the zone ?
- We can take a snapshot , create a VM using the same snapshot in us-central1-b.
144. Silva has again made a mistake, instead of creating in asia-south1 , he create in us-central1-b
- We can take a snapshot , create a VM using the same snapshot in asia-south-1

145. Arun has developed an algorithm in a dev project, now one more team from another project is interested in the same algorithm, can this be shared to other projects, if so how?
- We can create an image, and share it with the respective team. But the only requirement is the user should have a computer instance image user role.
146. Arun has developed an algorithm in dev project under hundai organisation, now gowthami from Kia organisation(Under GCP Only), wants to use the same algorithm, is it possible ?
- Using cli we can perform the operation, but we need to know the project-id and the image name
 - `gcloud compute instances create othercomapnayvm --zone us-central1-a --image java11image --image-project testingiamproject-369302`
147. Can we change the name if the VM , once created ? They cannot be changed.
148. Can we change the Region and zone ? No, we can't directly. But there are some workarounds.
149. Can we change the machine type ? Yes
150. Can the Boot disk be non persistent or a local disk ? No , the boot disk should be only persistent. It can be SSD, Balanced,Standard,Extreme.
- 151.
152. Can we change service accounts ? yes
153. Can we change the access scopes of the default service account , once the VM got created ? Yes, we can
154. We have 2 people trying to access the same GCP VM using its public IP, one is able to and the other is unable to connect - what will you perform?
155. A client has a VM with applications configured in there, he needs to create 3 more identical VMs - what will you recommend?
156. What's the diff b/w customer and public images?
157. Have you ever changed a quota, if so what exactly is a quota?
158. What is SOLE Tenants ??

Google Cloud Storage:

159. What is cloud storage ? what sort of data can be included in GCS buckets ?
160. Is GCS a block or blob store ? Blob
161. If I give u a file in GCS, and its has certain data... Can you edit the file and modify the data ?

- In gcs, we cant edit any file, as these are objects we can replace the file only.
162. What are the different storage classes available in GCS, in your projects which storage class have you been using and in which situations
- Standard, Nearline, Coldline, Archive.
 - For ETL based file we can go with standard , for daily builds too we go with standard.
 - For compliance , we go with archival
 - Ideally all the logs we store in gcs, will be moved to nearline after a certain time.
163. Can we change the storage class from multi regional to regional and vice-versa ? NO
164. With the default svc account can you edit object in storage class ?
- No....
165. What are scopes and IAM permissions for service accounts ?
166. Can we edit the scope of the default service account while the VM is in the running state ?
- NOOOOOOO
167. Is it a good practice to change the scopes of the default service account during your business hours ? NOOOOOOOO
168. What are the various types of encryptions Google Support ?
169. In which scenario shall we be using GMEK and CMEK ?
170. How can we create a CSEK ?
171. Is GMEK/CMEK/CSEK configured at the bucket level or object level ?
- GMEK/CMEK are configured at the bucket level. By default all teh object in that bucket will be having the same
 - But CSEK is configured at the object level.
172. If i want to encrypt all the objects that are been uploaded from my jenkins instance with my own key, how can i perform the same ?
173. Where is the CMEK key stored and if I want to change the GMEK key duration from where I can change it .
174. Are you storing your **CSEK** in a specific project using KMS, in that case how are you accessing the key in a different project?

Cloud SQL:

175. If i am having a database onprim, what are the options i can use to deploy the database in gcp ? it should be a relational database...
- Cloudsql and spanner

176. I am having a database instance in us-central1 , and client wanted a DR(Disaster Recovery) in asia-south-1. Is this even possible in Cloud SQL ?
- These are regional instance , stil if you want outside the region...we can achieve by using READ REPLICA
177. If that is the case, is there any effort that developers need to keep ?
- Yes, we need to change the connection string in the code, and later the app should be deployeddepending on where the app is hosted.
178. But currently you are in a prod war room, and doing build, scans, deploy might take some time to produce an artefact and deploy it, in this case what can be a quick fix ?
- We need to pass with ENVIRONMENTAL VARIABLES
 - JAVA_OPTS
179. In your project, how are you connecting to CLOUD SQL instances ?
- Using private ip or vm can use cloud sql auth proxy
 - But in one use case, where a vendor is different company, we allowed access of our cloud sql instance using authorised networks
180. how to maintain high availability in cloud SQL
- By default, when the instance is getingng created, we can enable HA
181. Will Cloud SQL instances have private ip by default ?
- No, cloud sql instances will not come with private ips.
182. How will cloud sql instances get private ip ???
- By using Private Service Access
183. In which subnet will pirate IP be generated ?
- No, it has his subnet defined by google during peering with /20 series.
184. The cloud sql instance we created is not able to handle the traffic, now we need to scale the cloud sql instance, whats ur approach, how you can achieve this ?
- Cloudsql doesnt support horizontal scaling. It only supports vertical scaling
 - I can increase the size of the vm, not the count of vm's
 - If you want to have a horizontal scaling , we need to go for cloud spanner
185. Have you ever implemented certificates/TLS in cloud sql ? If so, who is the Certificate authority ?
- Google provides self signed certificates,
 - There will be server and client certificates, we should download client certs.
186. How is the backup handled in CCloud SQL ?
- Using manual and automated way.
187. There is a database called emp in instance-1, and its having 300000 rows... now the requirement is that, there is a database called newemp in a instance-2, how can the data be transferred from instance 1 to 2 ?

- We can export the .sql/.csv format to ONLY buckets. And then import them into instance-2
188. If there is a requirement for live migration , is this possible in cloud sql ?
- Yes, we can do But using DMS
189. In your project, how is your application connecting to CLOUD SQL instances ?
190. Whats the major difference between CloudSql and CloudSpanner ?
- If we want to have our db instances scaled across multi regional with multi write options and have horizontal scaling functionality then its recommended to go for spanner, but majority of the case we want to be having within a region so cloudsql will be enough
191. I want to login to db instance and perform certain operation ? can u let me know the steps for those ?
- As this a PAAS solution, google doesnot allow us to login nor even informs us where the machine is available.
 - If your DBA still needs, they can us something called flags.
 - Or if you want to have a granular control on the VM as well, we need to go for GCE.

App Engine:

192. How is app engine different from GCE
193. In a project, if I were asked to deploy 2 applications on an app engine , is it possible ?
- No, its 1-1
194. What are the different environments in the app engine ?
- Standard , flexible
195. What is the difference b/w standard and flexible ?
196. Whats the difference b/w service and version ?
197. In app engine, how is the traffic been splitted ?
198. If i want to increase the instance capacity , can i increase to n1-standard-1 as default ?
can i do form console or cli ?
- We need to do a modification in app.yaml file.
 - But the family differs compared to GCE
199. Can I login to a container in the app engine ?
- We can ssh into the container, but only limitation is “the container which is create should be part of flexible”
200. If i want to connect some database options from my application in app engine to cloud sql is it possible ?

- Yes
- 201. Will automatic scaling happen in GAE ?
 - Yes
- 202. In app engine, will this support horizontal or vertical ?
 - Both
- 203. How are certificates managed in AppEngine ?
 - By default all the TLS/https certs are been maintained by google itself
 - If required i can create dns route to our app engines

Cloud Run:

- 204. What exactly is a cloud run ? how it differs from GCE, GAE , GKE
- 205. Can I push an image to GCR, from an application without having a Dockerfile ?
 - Dockerfile is not mandatory for image creations.
 - We can create images without a dockerfile even.
- 206. Can i deploy a service to cloud run from amazon container registry image ?
 - No
 - We need to pull the image and push to gcr.io or google artifact registry
- 207. Is Google Container Registry and artifact registry the same ?
 - No , they are not the same
 - In gcr only container images can be stored,
 - Whereas In artifact registry , we can store multiple artifacts like your maven, nodes, docker, helm rpm,
- 208. Can I have the same image tag be pushed to GCR ?
 - Yes , we can..
 - We can differentiate with SHA256 values.
- 209. How is rollback possible in cloud run ?
 - We need to update the traffic to the previous revision.
- 210. Maybe after 2 years if i want to migrate my application running on Cloud run to AWS is it possible ?
 - Possible, we need to have the similar native platform available in other vendor
- 211. What the minimum instance a cloud run can scale down to ?
 - It can go down to 0.

Google Kubernetes engine:

- 212. How is GKE different from typical kubernetes cluster ?
- 213. How is GKE different from Cloud Run ?
- 214. Can i deploy my azure container registry image in GKE ?
- 215. Can i deploy my azure container registry image in Cloud Run ?
- 216. If i Create a service of type LoadBalancer, in GCP which load balancer will be created .

Hybrid Network

- 217. How many ways of hybrid network is possible in GCP
- 218. With GCP VPN, where am I connecting to , is it Google network or Google Cloud network (VPC)?
- 219. If i want to setup a connection b/w aws and gcp vpc's which is preferable.
 - VPN is recommended
- 220. In you project are you using static vpn or dynamic vpn ?
 - We generally go for dynamic vpn, as it has dynamic fetching of subnets
- 221. Is VPC a global level / regional / zonal
 - Its by default Regional , but if we want assign to a cloud router for VPN, then we need to make it GLobal.
- 222. Whats the difference b/w dynamic vpn and dynamic ha vpn ?
 - IN Dynamic HA vpn, we do have multiple options for multi tunnel ,
 - Even if one tunnel goes down, there will be no impact to the traffic.
- 223. In static routing, do i need to provide my local subnet cidrs and my peer submit cidr as well ?
 - Yes (but not mandatory), we need to

Google Container Registry:

- 224. Can we make the GCR images as public

225. Can we make a specific image to the public ?

Google Artifact Registry:

226. How is Artifact registry different from container registry ?

227. How can my application authenticate to artifact registry, lets say i want to upload a jar file to my artifact registry , how can this be done ?????

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