

App Engine



Cloud Functions



Cloud Run



Cloud Firewall

Rules

Compute Engine



Container-

Cloud Interconnect

GKE On-Prem Optimized OS



GPU



Kubernetes Engine



Cloud Load

Balancing

Cloud NAT



Cloud Network



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•

Cloud Build

Google Cloud Certific



Container Registry





Cloud Spanner

Cloud SQL







Datastore

Firestore



Cloud Firewall Rules



Cloud Interconnect



Cloud Load Balancing



Cloud NAT



Cloud Network



Cloud Bigtable

Cloud Bigtable



Cloud Spanner



Cloud SQL





Datastore

Firestore



Cloud IAM



Cloud Storage



Filestore



App Engine

Cloud Functions



Cloud Run



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GKE On-Prem





GPU



Kubernetes Engine







Cloud Firewall







Optimized OS













Cloud Network

PREP NOTES BY

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GOOGLE CLOUD ASSOCIATE ENGINEER





	General Knowledge								
Organisations	What it is Resources are organized hierarchically. This allows you to map your enterprise's operational structure to GCP, and to manage access control and permissions for groups of related resources	 Key points Flow (Organisation, Folders, projects, resources) Where to manage permissions for groups, department, entire organisation, etc 	 What you should know What is an organisation resource hierarchy? 	Review documents Creating and managing organizations	Video Organizations & the Resource Hierarchy	My experience			
Folders	What it is Folders are an additional grouping mechanism on top of projects.	 Key points Folders can be used to identify your departments or various environments of your cloud space. 	 What you should know The structure folders add to an organisation 	Creating and managing Folders	Video Folders in Cloud Resource Manager	This is basic introductory knowledge for anyone entering google cloud.			
Projects	What it is The project resource is the base- level organizing entity. Organizations and folders may contain multiple projects.	 Key points A project is required to use services, resources and billing. 	What you should know How to use projects in google cloud platform	Creating and managing projects					
Region	What it is Regions are independent geographic areas that consist of zones	Key pointsIsolated from other regionsTransfer fee for data between regions	 What you should know Multi regional design can be used for fault tolerance 	Review documents Region and Zones	Video GCP regions and zones Regions and Zones				
Availability Zone	What it is A zone is a deployment area for Google Cloud resources within a region.	Key pointsIsolated from other zonesLow latency connection between AZ within the region	What you should know Zonal resources operate within a single zone. If a zone becomes unavailable, all of the zonal resources in that zone are unavailable until service is restored						
On Prem	What it is Your organisation private data centre	 Key points Why chose cloud Type of application Type of infrastructure How to connect to cloud 	 What you should know Why move, what are the requirements. Suitable cloud services (on cloud replacements / equivalents) 						



	Compute									
Compute	What it is	What you should know	Review documents	Video	Qwiklabs	My experience				
Engine	Compute Engine lets you create and run virtual machines on Google infrastructure	 Creating and starting a VM Connecting to a VM VM service accounts Preemptible/spot VMs Instance templates VM availability policies Custom VM instance Managing VM access Machine Types VM deletion protection Snapshots & Images Compute storage options Designing resilient VMs Setting default zones 	Service accounts Connect with RDP VM availability policies Use load balancing	Preemptible Virtual Machine How to RDP Simplifying VM deployment Protect your VM from deletion Snapshots Export to Image	Compute Engine: Qwik Start - Windows	Compute topics cover a large portion of the exam				
Unmanaged groups	What it is Unmanaged instance groups are collections of instances that exist in a single zone and do not share a common instance template.	What you should know Use instances that are not identical Do not allow automatic creation, deletion or scaling.	Review documents Creating groups of unmanaged instances			My experience Have a basic understanding of the difference between a managed instance group and an unmanaged instance group				
Managed groups	What it is This offers autoscaling capabilities, which let you automatically add or based on increases or decreases in load.	 What you should know Manage Instance groups templates Allow automatic creation, deletion and scaling. Automatic VM updates 	Review documents Instance groups Maximum unavailable	Video Rolling update & canary Create MIG templates	Qwiklabs Autoscaling an Instance Group with Custom Cloud Monitoring Metrics	My experience Know when and why you should use a managed instance group with autoscaling				
Auto Scaling & Load balancing	What it is The ability to scale automatically based on metric defined by user.	 What you should know Importance of autoscaling Ways to configure autoscaling Load balancing and scaling 	Review documents Load balancing and scaling Schedule-based autoscaling	Video Instance group auto scaling LB & Auto scaling						



	STORAGE								
Storage Classes	What it is GCP Cloud Storage classes are storage options which vary on its availability, storage durations and pricing and ideal use cases.	What you should know What is a cloud storage bucket? The various storage classes and their benefits Regional vs multi-Regional Object lifecycle policies Signed URLs Uploading and downloading objects	Review documents Storage classes Change storage class Signed URLs Parallel uploads	Video https://cloud.google.co m/storage/docs/storage -classes https://www.youtube.com/wa tch?v=aDHGlbOCK8A	Qwiklabs	My experience Understanding storage is vital for direct and indirect questions			
Container Registry	What it is This is a private container image registry that runs on Google Cloud Platform. It supports Docker Image Manifest V2 and OCI image formats.	What you should know ● What's used for	https://cloud.google.com/container-registry/docs/overview	Video https://www.youtube.com/wa tch?v=_XAk5T_4-00	Qwiklabs https://www.qwiklabs. com/focuses/1768?par ent=catalog	My experience Have an idea of its purpose			
Cloud Storage	What it is Cloud Storage is a service for storing your objects in Google Cloud.	 What you should know What is cloud storage Its object oriented storage Cloud Audit Logs Accessing Cloud Storage using the Gsutil tool 	https://cloud.google.com/storage/docs/introduction https://cloud.google.com/storage/docs/audit-logs#types	Video https://www.youtube.co m/watch?v=VDBhvexAj8I	Qwiklabs https://www.qwiklabs.com/f ocuses/1760?parent=catalo g	My experience Just be aware of this			





			Data Analytics /	['] Big Data		
BigQuery	What it is Enterprise data warehouse that enables super-fast SQL queries using the processing power of Google's infrastructure.	What you should know Managed by Google Analyse Data with SQL Dry run query BigQuery roles / permissions required to run queries External data sources	https://cloud.google.c om/bigquery/docs/ru nning-queries https://cloud.google.com/ bigquery/docs/dry-run- queries https://cloud.google.com/ bigquery/docs/access- control- examples#read_access_to _data_in_a_different_proje ct	https://www.youtube.com/wa tch?v=d3MDxC_iuaw https://www.youtube.com/wa tch?v=v_gmtlifT0E https://www.youtube.com/wa tch?v=MH5M2Crn6Ag	Qwiklabs https://www.cloudskillsb oost.google/quests/123	My experience This topic is a must know
Dataflow	What it is This is a fully-managed service for	What you should know	Review documents	Video	Qwiklabs	My experience
Q .	transforming and enriching data in stream (real time) and batch (historical) modes with equal reliability and expressiveness	When is data flow used	https://cloud.google.com/ dataflow/docs	https://www.youtube.com/wa tch?v=KalJ0VuEM7s	https://www.qwiklabs.com/focuses/1159?locale=it&parent=catalog	Just be aware of this
Dataprep	What it is Use Cloud Dataprep to explore and	What you should know	Review documents	Video	Qwiklabs	My experience
	transform raw data from disparate and/or large datasets into clean and structured data for further analysis and processing.	When is dataprep used	https://cloud.google.com/ dataprep	https://www.youtube.com/wa tch?v=9unqufuUCeY	https://www.qwiklabs.com/f ocuses/584?parent=catalog	Just be aware of this
Dataproc	What it is This is you managed Spark and Hadoop	What you should know	Review documents	Video	Qwiklabs	My experience
00	cloud offering	• When is dataproc used?	https://cloud.google.com/ dataproc/docs/concepts/o verview	https://www.youtube.com/wa tch?v=Jj6mp7Sam10	https://www.qwiklabs.com/f ocuses/586?parent=catalog	Just be aware of this
Cloud	What it is is a fully-managed real-time messaging	What you should know	Review documents	Video	Qwiklabs	My experience
Pub/Sub	service that allows you to send and receive messages between independent applications	When is Pub/Sub used?Pub/Sub service account	https://cloud.google.com/ pubsub/docs/overview	https://www.youtube.com/watch?v=cvu53CnZmGl	https://www.qwiklabs.com/f ocuses/3719?parent=catalo g	This is used directly and indirectly so understand its function
Data Studio	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
	Is a visualization and reporting tool, and an integral part of Google Marketing Platform	When is Data Studio used?	https://support.google.co m/datastudio/answer/628 3323?hl=en	https://www.youtube.com/wa tch?v=ZBoFvaWr-Dk	https://www.qwiklabs.com/f ocuses/1158?parent=catalo g	Just be aware of this





	Serverless										
App Engine	What it is	What you should know	Review documents	Video	Qwiklabs	My experience					
	App Engine is a fully managed, serverless platform for developing and hosting web applications at scale.	 App Engine environment Deploying App versions App traffic distribution 	Apps to app engine App engine ENV Splitting Traffic	https://www.youtube.com/watch?v=Xuf3J6SKVV0 https://www.youtube.com/watch?vaiLYsHhqja_c	https://www.qwiklabs.com/focuses/951?p arent=catalog https://www.cloudskillsboost.google/focuses/1014?catalog_rank=%7B%22rank%22%3A1%2C%22num_filters%22%3A0%2C%22has_search%22%3Atrue%7D&parent=catalog&search_id=15054635	You may see a question or two					
Cloud Run	What it is	What you should know	Review documents	Video	Qwiklabs	My experience					
	Develop and deploy highly scalable containerized applications on a fully managed serverless platform.	 What is Cloud Run and its uses. Deploying containers Revisions 	https://cloud.googl e.com/run/docs/d eploying https://cloud.googl e.com/run/docs/m anaging/revisions	https://www.youtube.com/watch?v =nhwYc4StHIc https://www.youtube.com/watch?v =lzQNjZIGKaM https://www.youtube.com/watch?v =30P-q55hOUI	https://www.qwiklabs.com/focuses/5162? parent=catalog	Good to know					
Cloud	What it is	What you should know	Review documents	Video	Qwiklabs	My experience					
Functions	Event-driven serverless compute platform	• Events and Triggers	https://cloud.googl e.com/functions/d ocs/concepts/eve nts-triggers	https://www.youtube.com/watch?v=brhA9uaz7Xs	https://www.qwiklabs.com/focuse s/1763?parent=catalog	A question or two may appear					

	Kubernetes									
GKE	What it is	What you should know	Review documents	Video	Qwiklabs	My experience				
	(GKE) provides a managed environment for deploying,	What is GKEWhat's a rolling deployment	GKE Overview	https://www.youtube.com/watch?v =RI5M1CzgEH4	https://www.qwiklabs.com/quests/29	There would be a few questions based on GKE				
	managing, and scaling your containerized applications using Google infrastructure.	Be familiar with kubectl syntax DaemonSet	https://www.youtube.com/w	https://www.qwiklabs.com/focuses/1563 6?locale=id&parent=catalog						
		 Private clusters Expanding the CIDR range 	GKE versioning and support Secrets	atch?v=jWKZCjsm0						
		What is a DaemonSet?Cluster AutoscalerNode Auto-Upgrades		https://www.youtube.com/watch?v=pqSRn1QHh8w						
		Secret object in KubernetesGKE securityGKE Sandbox	GKE Sandbox	https://www.youtube.com/watch?v=cQAEK9PBY8U						





		Ne	etworking		
VPC Sharing	What it is	What you should know	Review documents	Video	My experience
- N	Used to connect to a common VPC network. Resources in those projects can communicate with each other securely and efficiently across project boundaries using internal IPs.	When to use VPC sharing	https://cloud.google.com/vpc/ docs/shared-vpc	https://www.youtube.com/watch?v=W otV3D01tJA https://www.youtube.com/watch?v=YV	Understand VPC Sharing as it may be used in questions directly and indirectly
VPC Peering	What it is	What you should know	Review documents	<u>WjrfEYgK4</u>	My experience
<u></u>	Access G Suite and Google Cloud features over VPN or the internet, while cutting egress fees. Connect directly with Direct Peering, or choose a partner with Carrier Peering.	When to use VPC peering	https://cloud.google.com/vpc/docs/v pc-peering	https://www.youtube.com/watch?v=htr m4xchvxs https://www.youtube.com/watch?v=cK aryf7qp9w	Understand VPC Peering as it may be used in questions directly and indirectly
VPN	What it is	What you should know	Review documents		My experience
■-0-	Connect your on-premises or other public cloud networks to GCP Virtual Private Cloud (VPC) securely over the internet through.	 Multiple tunnels ECMP VPN use cases BGP dynamic routing 	https://cloud.google.com/network- connectivity/docs/vpn/concepts/over view https://cloud.google.com/network- connectivity/docs/router/how- to/configuring-bgp		Understand VPNs as it may be used in questions directly and indirectly
Dedicated	What it is	What you should know	Review documents		My experience
Interconnect	Use dedicated Interconnect to connect to Google's network through a highly available, low latency connection. (10GB higher)	1- Type (system and custom)2- Default route & Subnet route3- Static and Dynamic routes4- Connection speed	Dedicated Interconnect overview		Good to know
Partner Connect	What it is	What you should know	Review documents		My experience
1	Use Google Cloud Interconnect - Partner (Partner Interconnect) to connect to Google through a supported service provider. (From 50 MB up)	1- How to setup (VLAN, Key, request location and capacity) 2- Difference L2 and L3	Partner connect overview		Good to know
VPC	What it is	What you should know	Review documents	Video	My experience
	A VPC network is your virtual network in the cloud just like an on-premise physical network or data centre or office network.	 What is a VPC Internal and external access Subnets Firewall rules & Ingress and Egress traffic Cloud DNS & private zones Increasing IP ranges Hybrid connectivity 	https://cloud.google.com/vpc/docs/vpc https://cloud.google.com/blog/products/networking/introducing-private-dns-zones-resolve-to-keep-internal-networks-concealed https://cloud.google.com/hybrid-connectivity	https://www.youtube.com/watch?v=Qv 4OlcFzsKM https://www.youtube.com/watch?v=Qy u3IjwtOnk	



HTTP(S) Load balancer	SSL Proxy	TCP Proxy	Network Load balancer	Internal load balancer	Kubernetes Load balancing	Review documents https://cloud.google.com/load- balancing/docs/choosing-load- balancer
What it is Load balancer for HTTP(S) traffic, global, external, 80 or 8080 on 443.	What it is Load balancer for TCP with SSL offload, global, external. (25, 43, 110, 143,195, 443, 465, 587, 700, 993, 995, 1883, and 5222)	What it is Load balancer for TCP without SSL, global, external. (25, 43, 110, 143,195, 443, 465, 587, 700, 993, 995, 1883, and 5222)	What it is Load balancer for TCP/UDP no SSL offload, regional, external. (any port)	What it is Load balancer for TCP /UDP regional, Internal traffic (any port)	What it is This allows you balance between you application running in Kubernetes	Video https://www.youtube.com/wat ch?v=gdeOeu4E7eQ https://www.youtube.com/wat
 What you should know Scope (global) Traffic type (HTTPS) Health checks 	 Scope (global) Traffic type (Non-HTTPS with SSL termination) 	 What you should know Scope (global) Traffic type (TCP/UDP) 	 What you should know Scope (regional) Traffic type (TCP/UDP) 	 What you should know Scope Regional Traffic type (Internal TCP/UDP) 	 What you should know How it works Type of LB supported (HTTPS-Ingress, Internal, External) 	Ch?v=D4XZkCJyqis My experience Have a basic understanding of the use of different load balancers and its various use cases, e.g., Global vs Regional, External vs Internal, Traffic type, VoIP, TFTP, IP, TCP, UDP). Understand health checks.



	Security									
Firewall	What it is VPC firewall rules let you allow or deny connections to or from your virtual machine (VM) instances based on a configuration that you specify	What you should know How a firewall works Firewall rule Priority Goloud compute firewall-rules update	Review documents https://cloud.google.com/vp c/docs/firewalls	Video Firewall rules Firewall rule in GCP	Qwiklabs https://www.qwiklabs.com/focuses /22772?parent=catalog https://www.cloudskillsboost.googl e/focuses/22773?parent=catalog	My experience This should be basic knowledge for an engineer.				
Cloud Identity SSO	What it is Cloud Identity Single sign-on (SSO) is an authentication method that enables users to securely authenticate with multiple applications and websites by using just one set of credentials	What you should know Third-party identity providers Identity Provider Cloud access via Workspace Use cases of SSO	Review documents Enable SSO Partner-operated SAML Single sign-on Creating and managing organizations	Video https://www.youtube.c om/watch?v=fDnT0VE RIFI		My experience This topic may be presented in a question or two				
Identity aware proxy	What it is Cloud Identity-Aware Proxy (Cloud IAP) controls access to your cloud applications and VMs running on (GCP)	 What you should know How it works (HTTPS) JWT (signed headers) Use cases of IAP 	https://cloud.google.com/ia p/docs/external-identities https://cloud.google.com/ia p/docs/concepts-overview	https://www.youtube.com/watch?v=XFYSAeGqyq4	Qwiklabs User authentication with Identity-Aware Proxy User Authentication: Identity-Aware Proxy	My experience Have a basic understanding of how IAP is used				
CMEK	What it is For greater control you can use customer-managed encryption keys (CMEK). This way you control and manage key encryption keys in Cloud KMS	 What you should know What products support this service (BigQuery, Cloud Build, Cloud Dataproc, Cloud Storage, Compute Engine) 	Review documents https://cloud.google.com/k ms/docs/cmek	Video Data Encryption and Managed Encryption Keys Cloud KMS encrypt/decrypt Cloud HSM	Qwiklabs https://www.qwiklabs.com/focuses /1713?locale=zh_TW&parent=catal og	My experience				
Secret manager	What it is Applications often require access to small pieces of sensitive data at build or run time. These pieces of data are often referred to as secrets.	What you should know • Use cases of secret manager	https://cloud.google.co m/secret- manager/docs/overvie <u>W</u>	Video https://www.youtube.com/watch?v=nsrADMrp4BI		My experience How do you make sure your images are safe and approved?				





			Database	es		
Cloud SQL	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
	Cloud SQL is a fully-managed high performance, scalable database service that is used to set up, maintain, manage, and administer MySQL and PostgreSQL databases	 Use cases where this type of database is a good choice It's a relational database Great for systems with frequent queries and online transaction processing 	https://cloud.google.co m/sql/docs/introductio n	https://www.youtube.c om/watch?v=Kl8ig2BtL AY https://www.youtube.c om/watch?v=BQIQ- BTMR1U	https://www.qwiklabs.com/quests/ 52/	Know the different database options and where each would function perfectly in different scenarios, database related questions will appear.
Cloud Spanner	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
*	Cloud spanner is a fully managed relational database that scales horizontally and offers transactional consistency on a global scale	 Use cases where this type of database is a good choice It's a relational database Its horizontally scalable Spanner has global scale consistency 	Introducing Cloud Spanner	What is Cloud Spanner Introduction to Google Cloud Spanner	https://www.qwiklabs.com/focuses /1774?parent=catalog	Know the different database options and where each would function perfectly in different scenarios, database related questions will appear
Cloud	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
Datastore	Google Cloud Datastore is a fully managed, schema-less database for storing non-relational data.	 Use cases where this type of database is a good choice It's a non-relational database It's a NOSQL document store 	https://cloud.google.co m/datastore/docs/con cepts/overview	https://www.youtube.com/watch?v=YUmbM7hD7fQ https://www.youtube.com/watch?v=RHkL0KH4P8c	https://www.qwiklabs.com/focuses/941?parent=catalog https://www.qwiklabs.com/focuses/1063?parent=catalog	Know the different database options and where each would function perfectly in different scenarios, database related questions will appear.
Cloud Bigtable	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
	Bigtable is a distributed storage system for managing structured data that is designed to scale to petabytes of data	 Use cases where this type of database is a good choice It scales petabytes of data Great for real-time analytics on workloads 	https://cloud.google.com/bi gtable/docs/overview	https://www.youtube.com/watch?v=P4q4nqJAamo https://www.youtube.com/watch?v=qLgE40F5HwM	https://www.qwiklabs.com/focuses /579?parent=catalog	Know the different database options and where each would function perfectly in different scenarios, database related questions will appear.
Firestore	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
	Cloud Firestore is a NoSQL document database that simplifies storing, syncing, and querying data for your mobile and web apps at global scale.	 Use cases where this type of database is a good choice It's a NOSQL database It's built for global apps 	https://firebase.google.com/ docs/firestore https://firebase.google.com/ products/firestore	https://www.youtube.com/w atch?v=QcsAb2RR52c https://www.youtube.com/w atch?v=v_hR4K4auoQ	https://www.qwiklabs.com/focuses /660?parent=catalog https://www.qwiklabs.com/focuses /8392?parent=catalog	Know the different database options and where each would function perfectly in different scenarios, database related questions will appear.





Other Modules									
Marketplace	What it is Marketplace is where you can quickly deploy software on Google Cloud Platform	What you should know What use and deployment options the marketplace offers customers	Review documents https://cloud.google.co m/marketplace/docs	Video https://www.youtube.co m/watch?v=H8rRUUxoxo M		My experience Have an understanding what the market place offers			
Billing	What it is A Cloud Billing account defines who pays for a given set of Google Cloud resources. To use Google Cloud services, you must have a valid Cloud Billing account(s)	 What you should know Billing Budgets and Alerts How billing works with Big Query/ how billing costs are analysed How to move billing accounts Billing roles Enable, disable, or change billing Project migration to a billing account Visualizing billing data via Data Studio 	Review documents https://cloud.google.com/billi ng/docs/concepts https://cloud.google.com/res ource- manager/docs/migrating- projects-billing https://cloud.google.com/billi ng/docs/how-to/export-data- bigquery https://cloud.google.com/billi ng/docs/how-to/billing-access https://cloud.google.com/billi ng/docs/how-to/modify- project https://cloud.google.com/res ource-manager/docs/project- migration	https://www.youtube.co m/watch?v=hqbtlDnAoF Y https://www.youtube.co m/watch?v=NeRYUoR4u Os https://www.youtube.co m/watch?v=maFV- fZA6To https://www.youtube.co m/watch?v=F4omjjMZ54 k	Qwiklabs https://www.qwiklabs.com/ quests/90	My experience Have a solid grasp on billing concepts This topic usually appears			
Price	What it is	What you should know	Review documents	Video		My experience			
calculator	Check the approximate cost of you cloud services	Use of the pricing calculator	https://cloud.google.co m/free/docs/estimate- costs-google-cloud- platform https://cloud.google.com/p roducts/calculator/	https://www.youtube.com/wa tch?v=gZidr8ztscw		Know when this tool is used			
Cloud	What it is	What you should know	Review documents	Video	Qwiklabs	My experience			
Operations (logging and monitoring)	Stackdriver Logging allows you to store, search, analyze, monitor, and alert on log data and events from Google Cloud	Cloud Logging AgentHow to troubleshoot logs	https://cloud.google.com/logg ing/docs	https://www.youtube.co m/watch?v=uOIGFEHoS uw	https://www.qwiklabs.com/quest s/35	Some tricky combination may pop up & you should look at all the components of this area.			





E	Platform and Amazon Web Services (AWS).	 Configure and manage sinks Roles and permissions Stackdriver Workspaces Using resource groups 	https://cloud.google.com/logging/docs/routing/overview https://cloud.google.com/monitoring/access-control#mon_roles_desc https://cloud.google.com/monitoring/groups	https://www.youtube.com/wa tch?v=M2bQxpyBpH0	https://www.qwiklabs.com/quest s/81	
Deployment	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
Manager	Deployment Manager is an			https://www.youtube.com/wa	•	r i
Manager	infrastructure deployment service that automates the	 What is deployment manager and its use? 	Get started with DM	tch?v=qVKp7W1bfrE		Know when and how this tool is used
	creation and management of	• Templates	Create basic template	https://www.youtube.com/wa tch?v=qiWJqEizPQM		
_	Google Cloud resources	Checking deployment status		teri: v-givvoqeizr Qivi		
		API as a type providerUpdating a Deployment	Updating a deployment			
IAM & Admin	What it is	What you should know	Review documents	Video	Qwiklabs	My experience
		• Users	https://cloud.google.com/iam	https://www.youtube.com/wa	https://www.gwiklabs.com/focus	This is an important topic and a few
		Using Groups	/docs/creating-managing-	tch?v=KRzdAD7DljE	es/551?parent=catalog	questions would be related to it
		Best Practice in Access	service-accounts	h		
		Management	https://tools.google.com/dlpa	https://www.youtube.com/wa tch?v=vayIQUuIANk		
		 Creating and managing service accounts 	ge/dirsync/	ton. v=vayiqodiAtik		
		Service account key		https://www.youtube.com/wa		
		Google cloud Directory Sync	https://cloud.google.com/iam	tch?v=w81K7wk9Dhc		
		(GCDS) ● IAM roles for auditing	/docs/job- functions/auditing#scenario_e			
		▼ IAW Toles for additing	xternal_auditors			



Thanks for reviewing

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PS. These are my notes and tips for the newest version of this exam. Google reserve the right to change the requirements so please always check out the official exam guide. This guide is revision tool and can be used just before the exam or as a refresher in general. All the topics listed have a possibility of appearing along with others.

This prep sheet is free, it just cost me time and energy to make this as concise as possible. Please feel free to share with people who maybe interest. If it helps you, please give me a shoutout on LinkedIn, it's just a form of feedback and encouragement to continue to develop these.

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