

# Cloud Computing Assignment 2022-Jan

Runbook name	cloud-computing-assignment
Runbook description	Cloud-Computing-Project-2022
Owner	@ Azim Mohamed
Version	V 1
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## Architecture

<https://docs.google.com/drawings/d/1LWWNEj0mIBI-VRckInlvMXQOuq6ib5DBTq4prHJbtVM/edit?usp=sharing>

<https://docs.google.com/drawings/d/1qkgTHyF7q8hzfNICVtYHoVWCABImhIWBX6uSwxc3Ui4/edit?usp=sharing>

[https://docs.google.com/drawings/d/1ej9O9p6\\_C1dIG6YCvzgDPLk5kETjiD8HIOVYvHBjDho/edit?usp=sharing](https://docs.google.com/drawings/d/1ej9O9p6_C1dIG6YCvzgDPLk5kETjiD8HIOVYvHBjDho/edit?usp=sharing)



## Support contacts

Expertise level	Team	Team lead	Contact info
Level 1	@ Azim Mohamed		azimmohamed2022@gmail.com
Level 2	@ Azim Mohamed	Dev	azimmohamed2022@gmail.com
Level 3			



## Runs

Name	State	Start time	Completed time	Duration
Code Review	SUCCESS / ERROR			
Log File	SUCCESS / ERROR			
Health Monitoring	SUCCESS / ERROR			
DataBase Backup	SUCCESS / ERROR			



## Process

	Step instructions	Enabled	Execution location	Run environments	Run conditions	Run Instruction	Documentation
1	Configuration Cloud Shell	YES	GCP Cloud	GCP Cloud	NO	<ol style="list-style-type: none"><li>gcloud config set project [PROJECT_NAME]</li><li>gcloud auth list</li></ol>	<a href="#">Authorizing Cloud SDK tools   Cloud SDK Documentation   Google Cloud</a>

2	Configuration Region / Zone	YES	GCP Cloud	GCP Cloud	No	<div> 1. gcloud compute project-info describe  --project PROJECT_ID </div> <div> 2. gcloud  compute  project-info  add-metadata \  --  metadata  google-  compute-  default-  region=europe-  west1,google-  compute-  default-  zone=europe-  west1-b </div>	<a href="#">Changing the default region or zone   Compute Engine Documentation   Google Cloud</a>
3	Create Github account	YES	Local Machine and Github location	Github location	No	No	<a href="#">How to Create an Account on GitHub: 8 Steps (with Pictures) (wikihow.com)</a>
4	IAM role for each services	YES	GCP Cloud	GCP Cloud			<a href="#">Compute Engine IAM roles and permissions   Compute Engine Documentation   Google Cloud</a>
5	Access for container registry	YES	GCP Cloud	GCP Cloud			<a href="#">Access control with IAM   Container Registry documentation   Google Cloud</a>
6	Access for cloud storage	YES	GCP Cloud	GCP Cloud	Region Specified	Creating Bucket  Define Storage Classes  Bucket Location  IAM Access	<a href="#">Cloud Storage documentation   Google Cloud</a>  <a href="#">Access control lists (ACLs)   Cloud Storage   Google Cloud</a>

7	Install kubctl in cloud shell	YES	GCP Cloud	GCP Cloud		gcloud components install kubect1  kubect1 version	<a href="https://v1-20.docs.kubernetes.io/docs/tasks/tools/included/install-kubectl-gcloud/">https://v1-20.docs.kubernetes.io/docs/tasks/tools/included/install-kubectl-gcloud/</a>  <a href="https://cloud.google.com/kubernetes-engine/docs/how-to/cluster-access-for-kubect1">https://cloud.google.com/kubernetes-engine/docs/how-to/cluster-access-for-kubect1</a>
8	Create GKE cluster	YES	GCP Cloud	GCP Cloud			<a href="https://cloud.google.com/kubernetes-engine/docs/how-to/creating-a-zonal-cluster">https://cloud.google.com/kubernetes-engine/docs/how-to/creating-a-zonal-cluster</a>
9	Create / Modify deployment yml files	YES	GCP Cloud	GCP Cloud			
10	create cloudbuild ymal file	YES	GCP Cloud	GCP Cloud			<a href="https://cloud.google.com/build/docs">https://cloud.google.com/build/docs</a>
11	Create Cloud build services	YES	GCP Cloud	GCP Cloud			
12	trigger github code in cloudbuild	YES	GCP Cloud	GCP Cloud			<a href="https://cloud.google.com/build/docs/automating-builds/create-manage-triggers">https://cloud.google.com/build/docs/automating-builds/create-manage-triggers</a>