IIT_ID_2020070 Run Book Cloud Computing Assignment 2022- Jan

Runbook name	cloud-computing-assignment
Runbook description	Cloud-Computing-Project-2022
Owner	@ Azim Mohamed
Version	V 1
Version date	29 Dec 2021
On this page	

🏛 Architecture
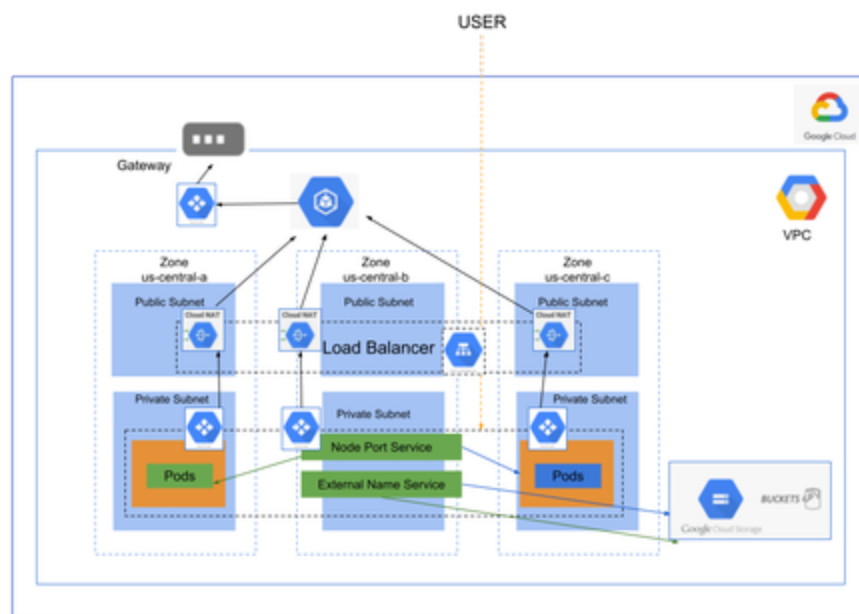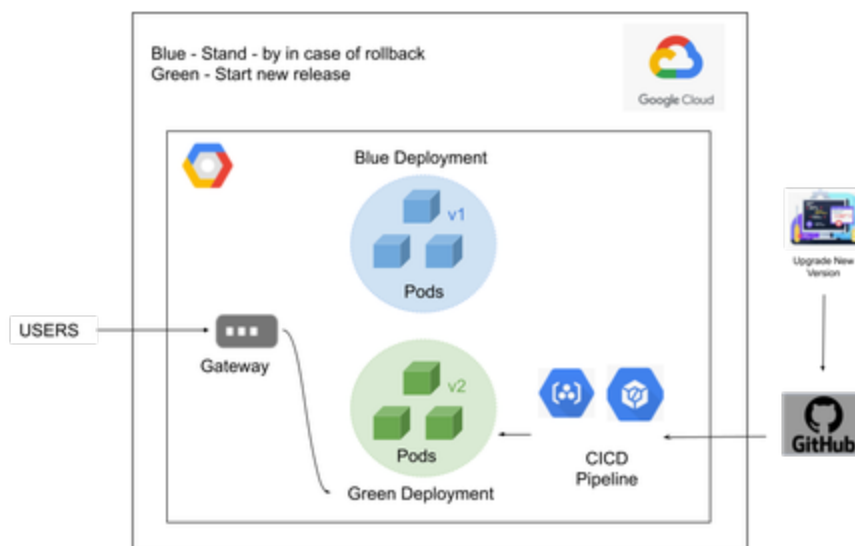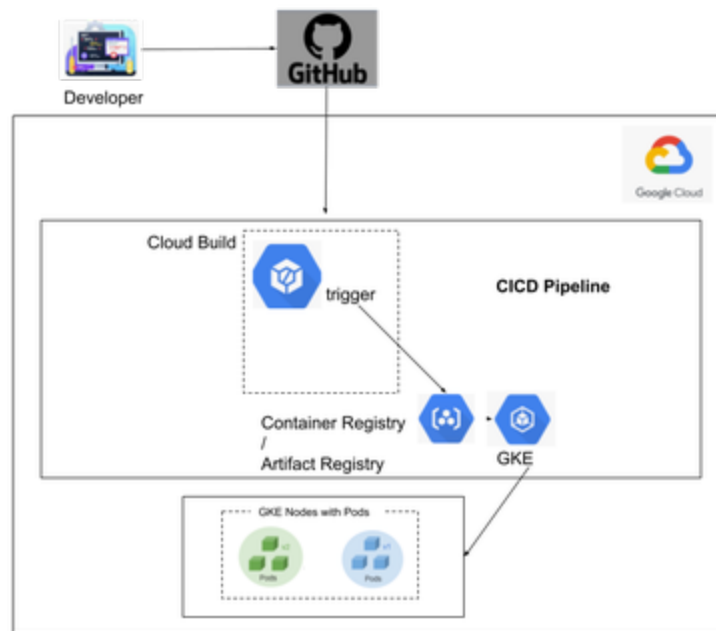
💬 Support contacts

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	1. `gcloud config set project [PROJECT_NAME]` 2. `gcloud auth list`	Authorizing Cloud SDK tools | Cloud SDK Documentation | Google Cloud
2	Configuration Region / Zone	**YES**	GCP Cloud	GCP Cloud	No	1. `gcloud compute project-info describe --project PROJECT_ID` 2. `gcloud compute project-info add-metadata \ -- metadata google- compute- default- region=europe- west1,google- compute- default- zone=europe- west1-b`	Changing the default region or zone | Compute Engine Documentation | Google Cloud
3	Create Github account	**YES**	Local Machine and Github location	Github location	No	No	How to Create an Account on GitHub: 8 Steps (with Pictures) (wikihow.com)
4	IAM role for each services	**YES**	GCP Cloud	GCP Cloud			Compute Engine IAM roles and permissions | Compute Engine Documentation | Google Cloud
5	Access for container registry	**YES**	GCP Cloud	GCP Cloud			Access control with IAM | Container Registry documentation | Google Cloud

6	Access for cloud storage	YES	GCP Cloud	GCP Cloud	Region Specified	Creating Bucket Define Storage Classes Bucket Location IAM Access	Cloud Storage documentation | Google Cloud Access control lists (ACLs) | Cloud Storage | Google Cloud

7	Install kubctl in cloud shell	YES	GCP Cloud	GCP Cloud		`gcloud components install kubectl`
						
						`kubectl version`
							https://v1-20. docs. kubernetes.io /docs/tasks /tools/included /install-kubectl-gcloud/
							
							https://cloud. google.com /kubernetes-engine/docs /how-to /cluster-access-for-kubectl

8	Create GKE cluster	YES	GCP Cloud	GCP Cloud			https://cloud. google.com /kubernetes-engine/docs /how-to /creating-a-zonal-cluster
9	Create / Modify deployment yml files	YES	GCP Cloud	GCP Cloud			
10	create cloudbuild ymal file	YES	GCP Cloud	GCP Cloud			https://cloud. google.com /build/docs
11	Create Cloud build services	YES	GCP Cloud	GCP Cloud			
12	trigger github code in cloudbuild	YES	GCP Cloud	GCP Cloud			https://cloud. google.com /build/docs /automating-builds/create-manage-triggers