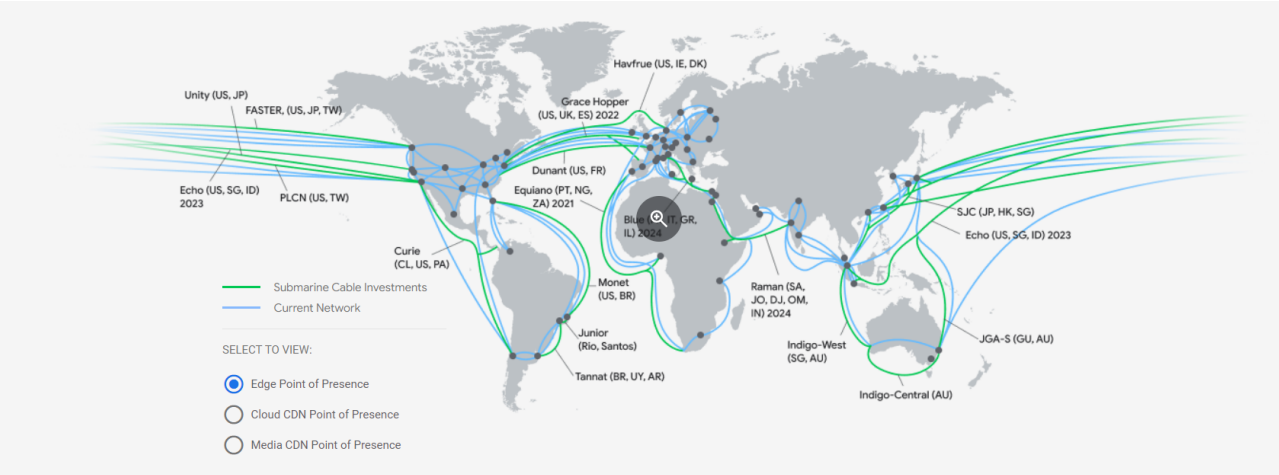
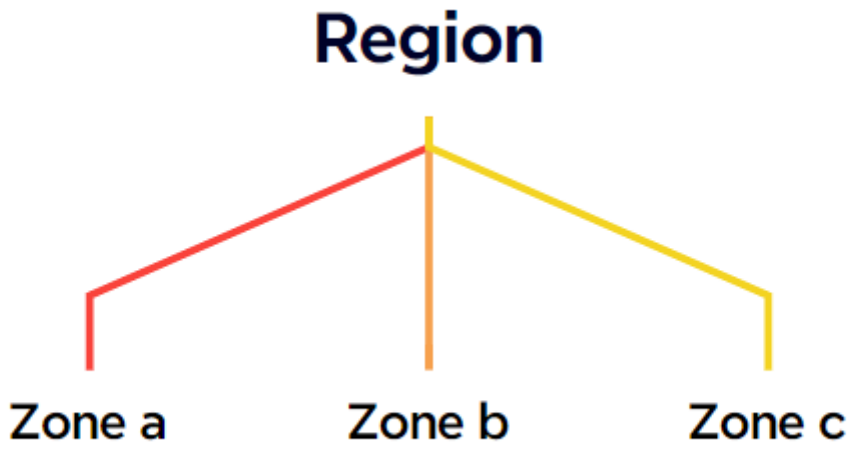
Why Google Cloud Platform ?

- Google has 1 billion user experience
- In addition to Google Search, Gmail, Youtube, Google Chrome etc Google has invented the MapReduce Programming Model
- Google has introduced Bigtable NoSQL database in 2006
- The Borg cluster in 2015, with the Omega Scheduler was announced in 2016, which became the opensource project called as Kubernetes
- Google's contribution to opensource world Refer Here
- Google Cloud Platform: This was introduced in April, 2008, where google announced the preview of Google App Engine, and this service became generally available in November 2011.
- Google Cloud today: Refer Here

- Google Backbone network



- Regions and Zones: Refer Here



- Try this region picker Refer Here

Google Cloud Setup checklist for an enterpise

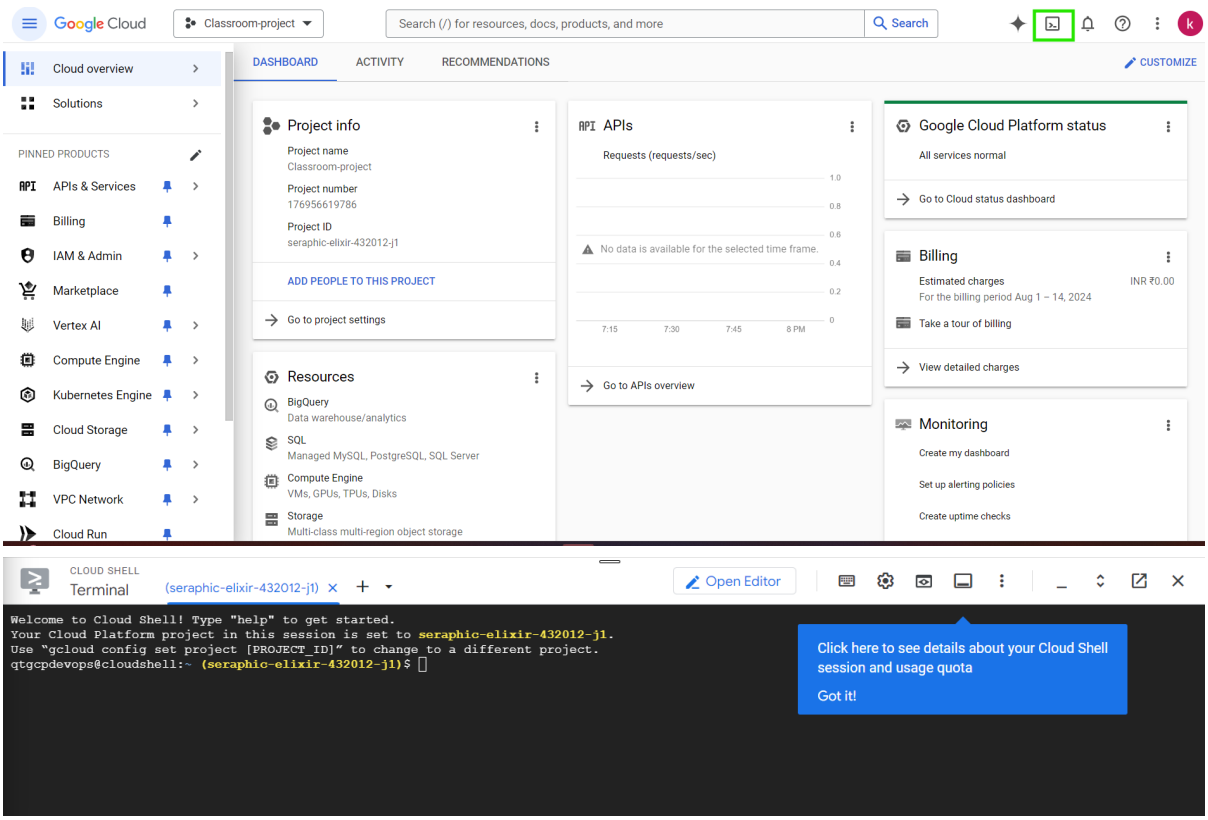
- This setup checklist is a step by step guide for anyone who wants to have scalable well architected production and enterprise workloads
- The following linke Refer Here covers the initial aspects of Google cloud setup check list
- If you want read more about GCP's best practices, the following links should help
    - Refer Here GCP Cloud Architecture Framework
    - Refer Here for security best practices

Google Cloud Blueprints

- Google has prepared many different methods of implementation for customers
- A google cloud blueprint is based on Google clouds best practices Refer Here
- For existing cloud user for quick comparision we can use the following link Refer Here

Management interfaces and Command line tools

- We have the following interfaces to google cloud
    - Google cloud console: Browser based Refer Here
    - Cloud Shell: Cloud shell is a Linux Shell provide for every Google cloud user. Here we have set of pre-installed development tools usch as gcloud cli, kubectl, Terraform, Git. This shell provides 5GB of persistent disk storage



- gcloud CLI: This is set of command line tools for managing gcp resources. This can be installed on many os: Refer Here for instructions to install
  - Linux
    - Generic Linux
    - Debian/Ubuntu
    - RedHat
  - Windows
  - mac
- Cloud APIs: This allows users to interact with Google cloud directly: Refer Here and Refer Here for gcp client libraries
- Config Connector: This is for whom are familiar with kubernetes and would like to manage GCP resources the kuberentes way Refer Here
- Google cloud Deployment manager: This is a deployment service that manages cloud resources via yaml based configuration files Refer Here
- Terraform
- Service catalog: This product for admins who mange gcp which allows us to curate available products in Service Catalog.
- Mobile apps:
  - IOS
  - Andriod