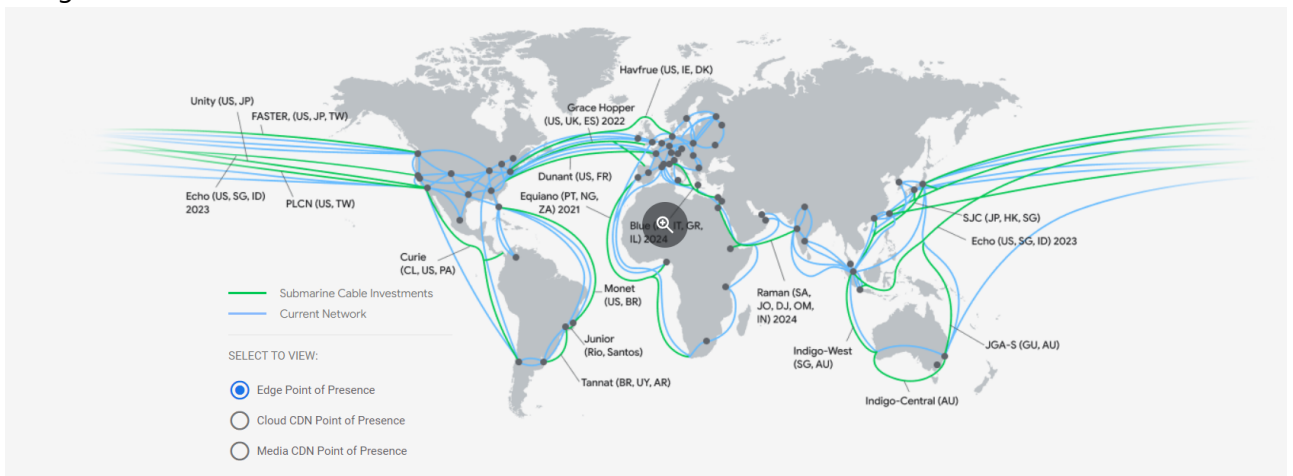


Why Google Cloud Platform ?

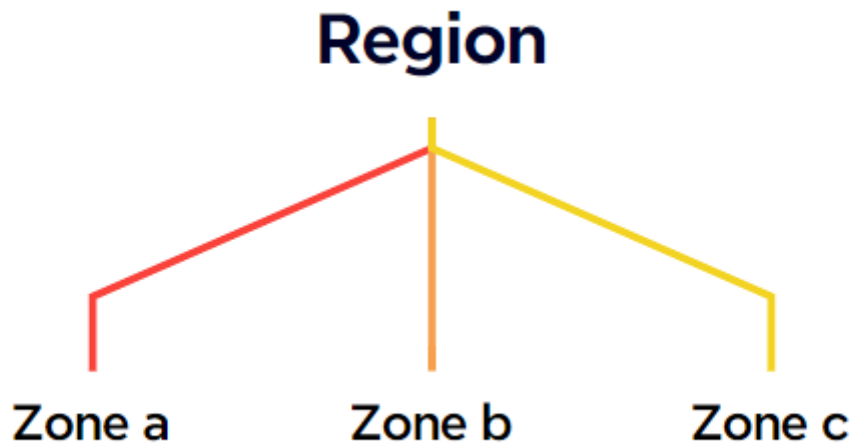
- Google has 1 billion user experience
- In addition to Google Search, Gmail, Youtube, Google Chrome etc Google has invented the MapReduce Programming Model
- Google has introduced Bigtable NoSQL database in 2006
- The Borg cluster in 2015, with the Omega Scheduler was announced in 2016, which became 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 enterprise

- 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

The screenshot displays the Google Cloud Platform (GCP) dashboard for a project named 'Classroom-project'. The dashboard is divided into several sections:

- Project info:** Shows project name (Classroom-project), project number (176956619786), and project ID (seraphic-elixir-432012-j1).
- API APIs:** A line chart showing requests per second, with a note that no data is available for the selected time frame.
- Google Cloud Platform status:** Indicates that all services are normal.
- Billing:** Shows estimated charges for the billing period Aug 1 - 14, 2024, amounting to INR ₹0.00.
- Monitoring:** Offers options to create a dashboard, set up alerting policies, and create uptime checks.

Below the dashboard is a Cloud Shell terminal window. The terminal shows the following text:

```

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to seraphic-elixir-432012-j1.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
qtgcpdevops@cloudshell:~ (seraphic-elixir-432012-j1) $

```

- 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 mänge gcp which allows us to curate available products in Service Catalog.
- Mobile apps:
 - IOS
 - Andriod