Aim: Cloud Deployment Models

In cloud computing, we have access to a shared pool of computer resources (servers, storage, programs, and so on) in the cloud. You simply need to request additional resources when you require them. Getting **resources up and running quickl**y is a breeze thanks to the clouds. It is possible to release resources that are no longer necessary. **This method allows you to just pay for what you use. Your cloud provider is in charge of all upkeep.**
Cloud Deployment Model functions as a virtual computing environment with a deployment architecture that varies depending on the amount of data you want to store and who has access to the infrastructure.

Types of Cloud Computing Deployment Models

- **Public Cloud**
- **Private Cloud**
- **Hybrid Cloud**
- **Community Cloud**
- **Multi-Cloud**

Public Cloud

The public cloud makes it possible for anybody to access systems and services.

**The public cloud may be less secure as it is open to everyone.**

The public cloud is one in which cloud infrastructure services are provided over the internet to the general people or major industry groups.

The infrastructure in this cloud model is owned by the entity that delivers the cloud services, not by the consumer.

It is a type of cloud hosting that allows customers and users to easily access systems and services.

Public cloud defined

A public cloud is an IT model where public cloud service providers make computing services—including compute and storage, develop-and-deploy environments, and applications—available on-demand to organizations and individuals over the public internet.

Enterprise P   Cloud Service Provider   **Enterprise Q**

User R
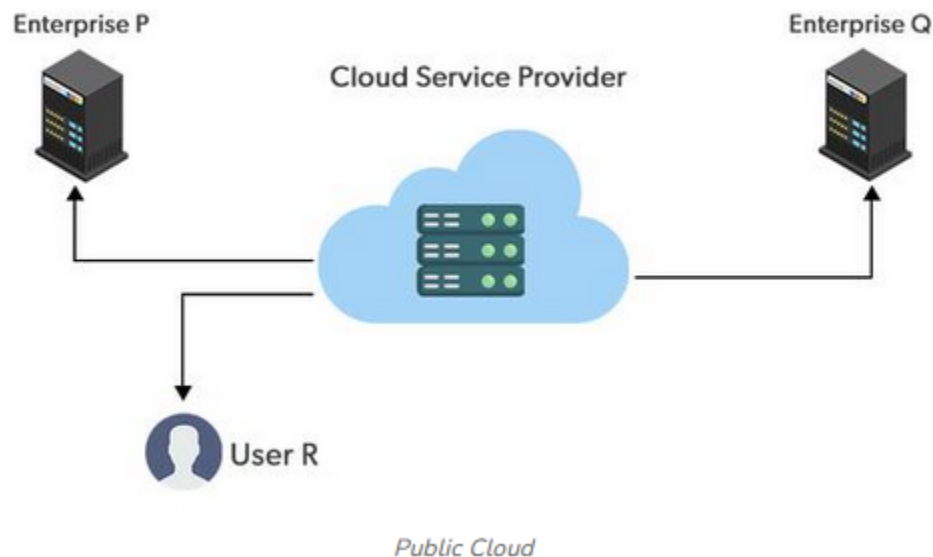
Public Cloud

The main difference between public cloud and private cloud is where it is hosted and who is responsible for managing it. Public cloud uses shared infrastructure, while private clouds use your organization's own dedicated infrastructure. Other common cloud models include hybrid cloud, which combines public and private clouds, and multicloud, where customers employ cloud services spanning multiple public clouds.

The private cloud

Is defined as computing services offered either over the Internet or a private internal network and only to select users instead of the general public.

Also called an internal or corporate cloud, private cloud computing gives businesses many of the benefits of a public cloud - including self-service, scalability, and elasticity - with the additional control and customization available from dedicated resources over a computing infrastructure hosted on-premises.

Two models for cloud services can be delivered in a private cloud. The first is infrastructure as a service (IaaS) that allows a company to use infrastructure resources such as compute, network, and storage as a service. The second is platform as a service (PaaS) that lets a company deliver everything from simple cloud-based applications to sophisticated-enabled enterprise applications. Private clouds can also be combined with public clouds to create a hybrid cloud.

Example: Public Cloud

Google App Engine

Its platform to build web application on cloud
Dynamic web server with full support for common web technologies
It has automatic scaling and load balancing property.

Programming Languages — Open & Flexible — Fully Managed
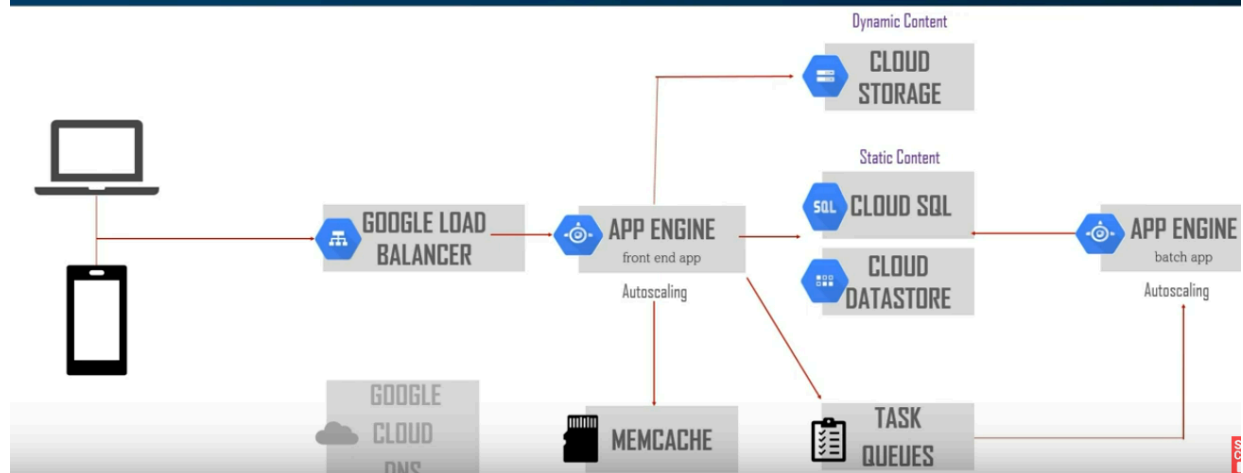
Fully Managed

Google App Engine provides you a fully managed environment which lets you focus on code while App Engine manages infrastructure concerns.

GAE Architecture

https://gcore.com/cloud/managed-logging?utm_source=google&utm_medium=cpc&utm_content=network%7Cg%7Cposition%7C%7Cad_id%7C659632265410%7Cad_name%7C%7Cgroup_name%7Cservice%7Cmatch_type%7Cb%7Cplacement%7C%7Ckeyword%7Ccloud%20logging%20service%7Cdevice_type%7Cc%7Cdevice%7C%7Cplacement_category

%7C&utm_term=cloud%20logging%20service&utm_campaign=google_cpc_cloud_laas_apac_search_desktop&hsa_acc=8132687341&hsa_cam=20180164956&hsa_grp=150206851355&hsa_ad=659632265410&hsa_src=g&hsa_tgt=kwd-353305937024&hsa_kw=cloud%20logging%20service&hsa_mt=b&hsa_net=adwords&hsa_ver=3&gad_source=1&gclid=Cj0KCQjwhb60BhClARIsABGGtw-ydVrjHQqOcDszGmF1uHggNc8hc82bd8q83vz4pJhIpfARzTNAgClaAtcgEALw_wcB