

# What is cloud deployment Model?

It 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 :

### 1) Public cloud:

- > The public cloud makes it possible for anybody to access system 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 public or major industry groups.
- > It is the type of cloud hosting that allows customers and users to easily access systems and services.

Eg: AWS, Microsoft Azure, Google Cloud.

Advantages:

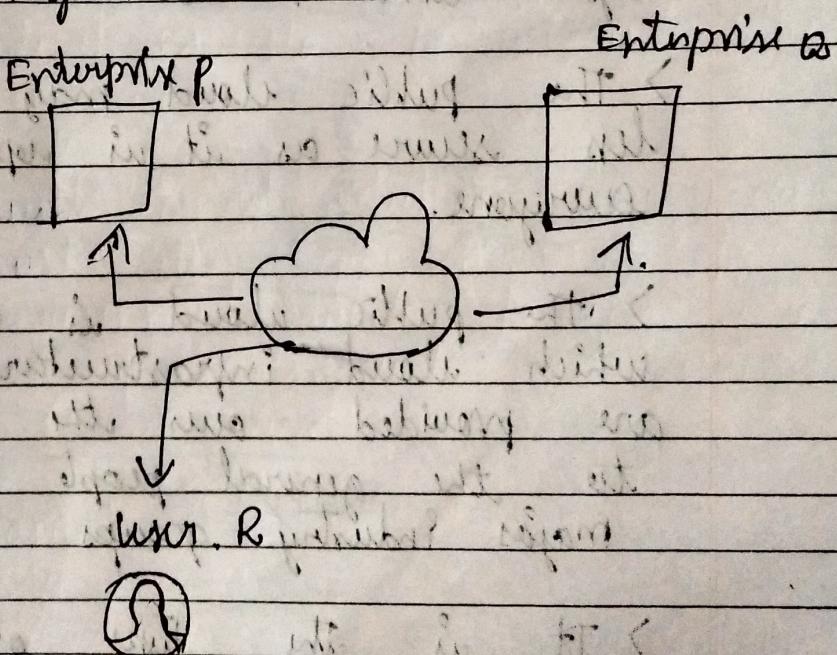
- \* Cost-effective
- \* Scalability
- \* Reliability

Dis-advantage:

- \* Security & privacy concerns
- \* Limited control

2) Private/Cloud:

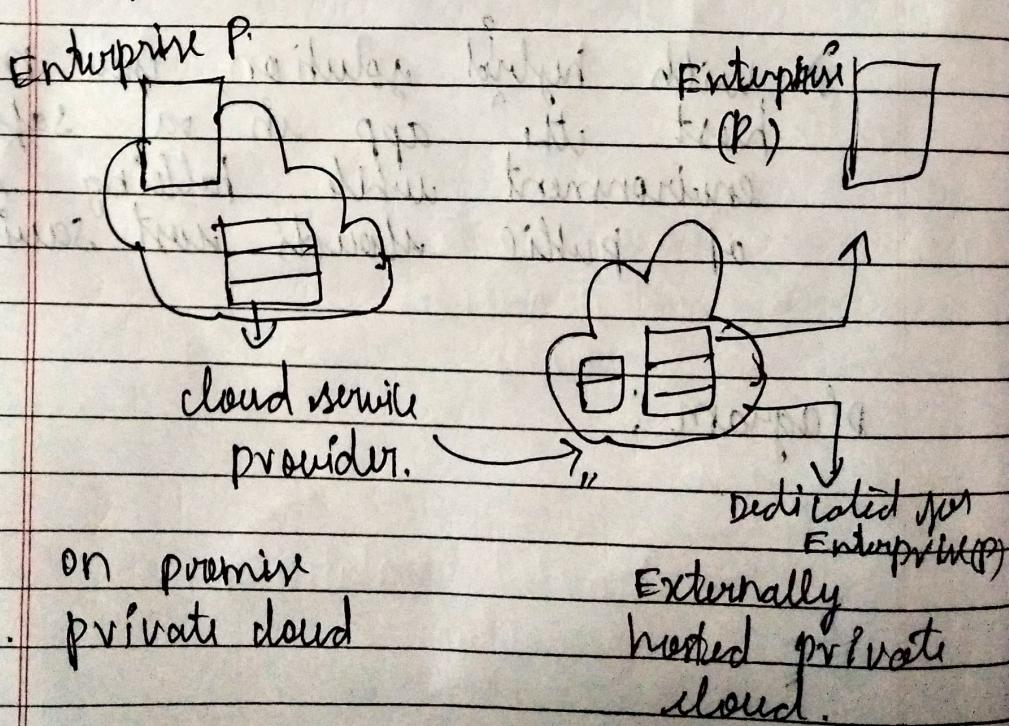
Diagram:



## 2. Private cloud :

- > It is exact opposite of the public cloud deployment model.
- > It is a one-on-one environment for a single user or a customer.
- > There is no need to share your hardware with anyone.
- > The cloud platform is implemented in a cloud-based secure environment that is protected by powerful firewalls.

### Diagram :



## Advantages :

- Enhanced security & privacy
- \* customization
- \* compliance.

## Dis-Adv :

- \* cost.
- \* Scalability

## 3. Hybrid cloud :

- It is a combination of public and private clouds that work together, allowing data and applications to be shared b/w them.
- with hybrid solution, you may host the app in a safe environment while taking advantage of public clouds' cost savings.

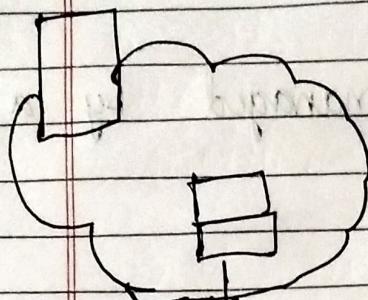
## Diagram :

Private cloud.

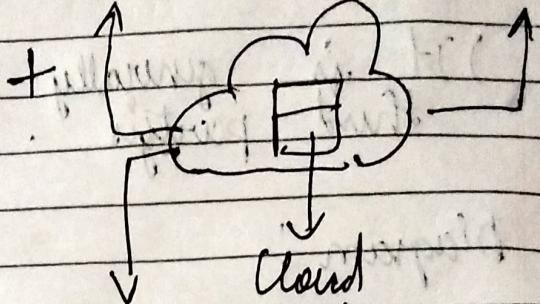
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cloud service provider



Cloud service provider.

Adv:

- \* Flexibility
- \* cost
- \* security

Dis-Adv:

- \* difficult to manage
- \* slow data transmission.

4. community cloud:

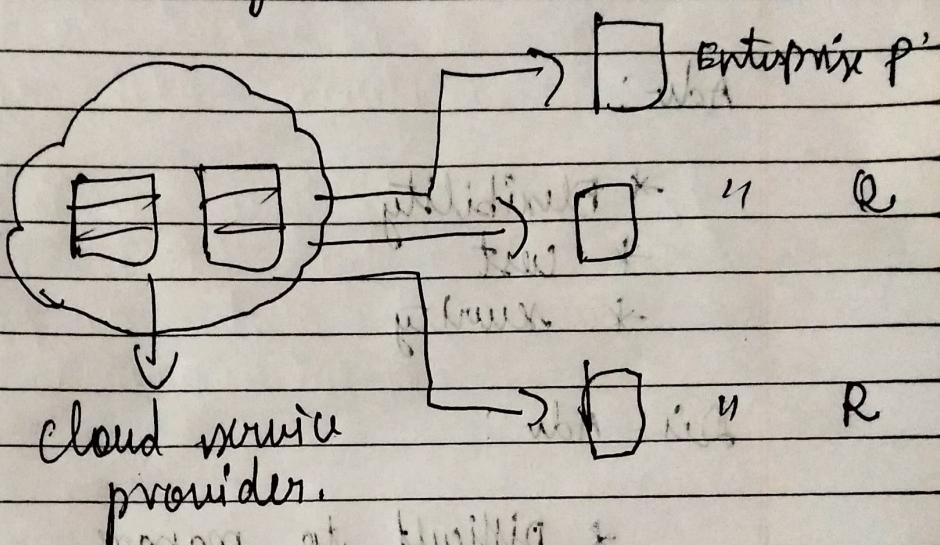
> It allows system and service to be accessible by a group of organizations.

> It is a distributed system that integrates the services of different clouds to address the specific needs of a community.

Industry, or business.

) It is generally managed by a third party.

Diagram:



Adv:

- \* Shared costs
- \* Collaboration with IT C
- \* Supporting busines

Dis-adv:

Limited scalability

\*\* security

data needs to be stored offsite