

Session 5

Deployment models(Part 2)

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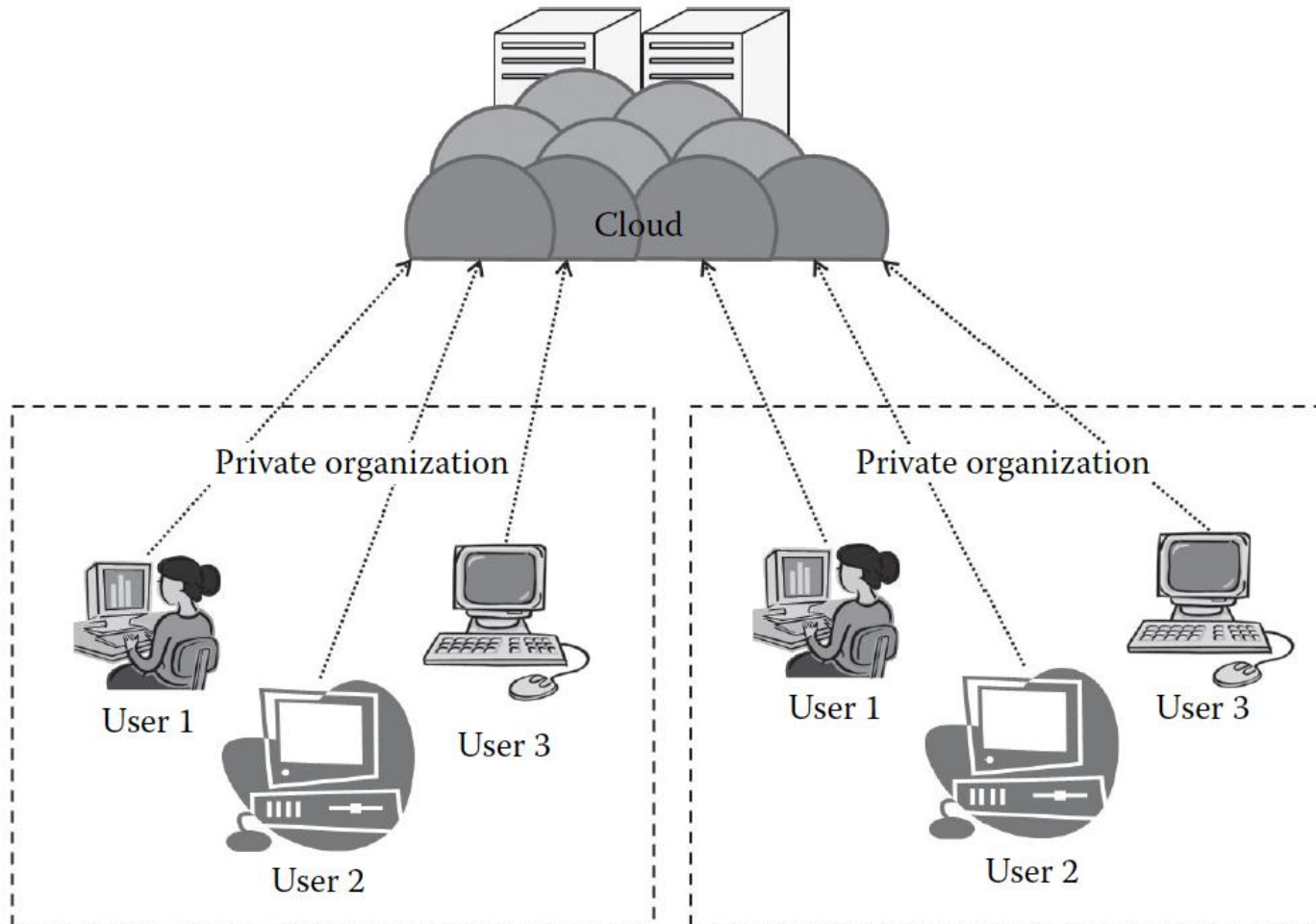
The FPT logo consists of the letters "F", "P", and "T" in a stylized, blocky font. The "F" is blue, the "P" is orange, and the "T" is green. A small registered trademark symbol (®) is located to the right of the "T".

Objectives

- Community Cloud
- Hybrid Cloud

Community Cloud

- Accommodates multiple organizations that have specific requirements.
- It is a shared infrastructure.
- This model can be either public or private.



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Community Cloud's Characteristics

- *Collaborative and distributive maintenance:* The community cloud is wholly collaborative, and usually no single party has full control over the whole cloud
- *Partially secure:* few organizations share the cloud, so there is a possibility that the data can be leaked from one organization to another, though it is safe from the outside world
- *Cost effective:* the whole cloud is being shared by several organizations or a community. Usually, not only cost but every other sharable responsibilities are also shared or divided among the groups

Community cloud's Suitability

- Want to establish a private cloud but have financial constraint
- Do not want to complete maintenance responsibility of the cloud
- Want to establish the cloud in order to collaborate with other clouds
- Want to have a collaborative cloud with more security features than the public cloud

The community cloud is not suitable for the following

- Prefer autonomy and control over the cloud
- Does not want to collaborate with other organizations

Community cloud classification

- There are two types of community cloud deployments:
 - On-premise community cloud
 - Outsourced community cloud

On-Premise Community Cloud

- On-premise community cloud consists of the cloud deployed within the premises and is maintained by the organizations themselves

On-Premise community Cloud issues

- Base on the textbook on page 58 explain some issues of On-Premise community Cloud

Outsourced Community Cloud

- In the outsourced community cloud, the cloud is outsourced to a third party. The third party is responsible for maintenance and management of the cloud.

Outsourced Community Cloud issues

- Comparing outsourced community cloud issues with on premise community cloud issues. In your opinion which one is the most important: SLA, Network, Security and privacy, Laws, Location, Performance, Maintenance?

Community cloud's advantages

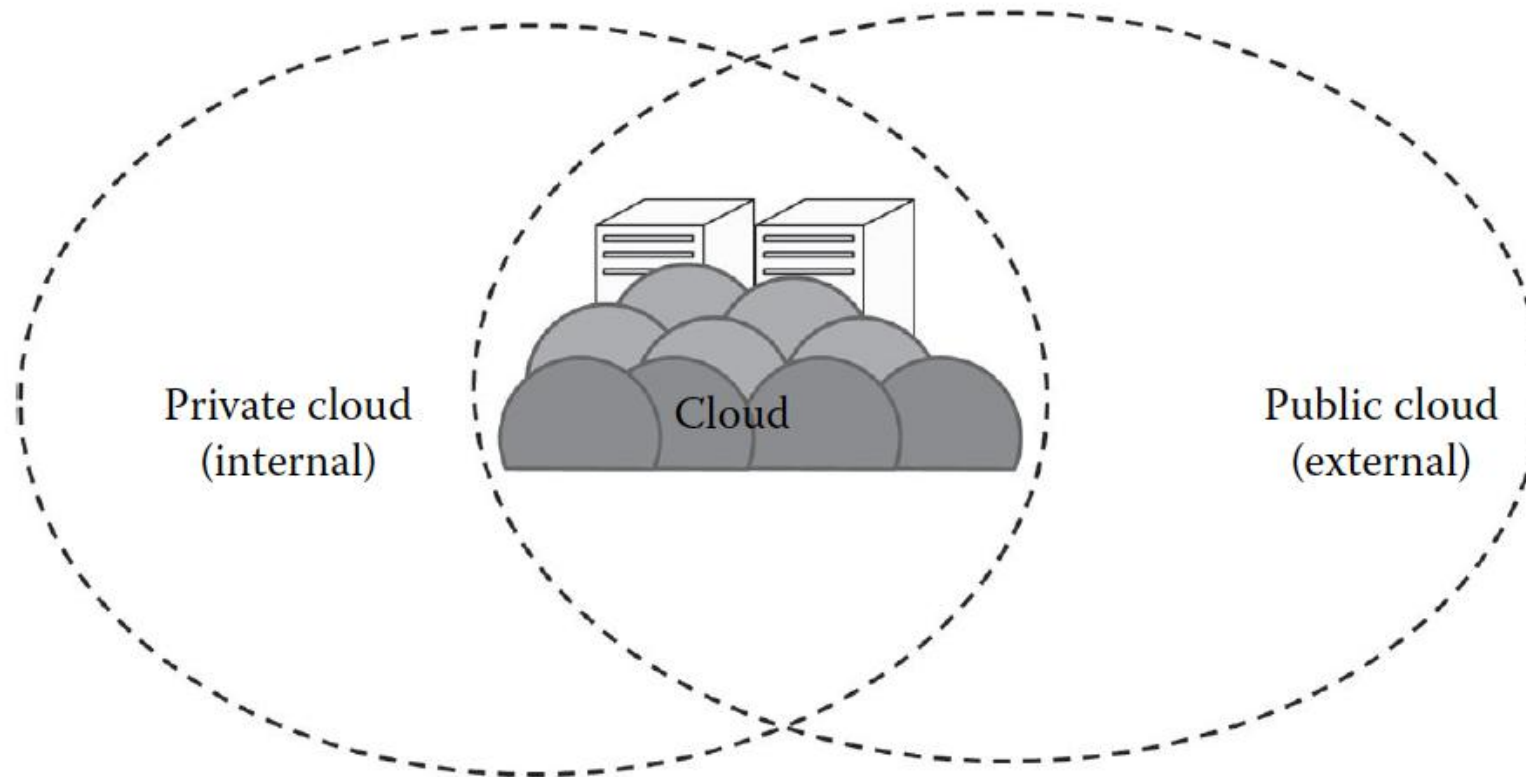
- It allows establishing a low-cost private cloud.
- It allows collaborative work on the cloud.
- It allows sharing of responsibilities among the organization.
- It has better security than the public cloud.

Community cloud's disadvantages

- Autonomy of an organization is lost.
- Security features are not as good as the private cloud.
- It is not suitable if there is no collaboration.

Hybrid Cloud

- According to the standard, a hybrid cloud is a distinct cloud architecture that relies on a combination of private and public clouds.
- The hybrid cloud architecture is a combination of private and public clouds.
- This is a combination of private and public clouds.



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Hybrid Cloud's Characteristics

- *Scalable*: Usually, the private with public cloud gives hybrid cloud . The public cloud is used whenever needed; hence, as the public cloud is scalable, the hybrid cloud with the help of its public counterpart is also scalable
- *Partially secure*: The private cloud is considered to be secured, but as the hybrid cloud also uses the public cloud, there is high risk of security breach
- *Stringent SLAs*: As the hybrid cloud involved a public cloud intervention, the SLAs are stringent
- *Complex cloud management*: Cloud management is complex and is a difficult task in the hybrid cloud as it involves more than one type of deployment models and also the numbers of users are high

Hybrid Cloud's Suitability

- Organizations that want the private cloud environment with the scalability of the public cloud
- Organizations that require more security than the public cloud

The Hybrid cloud is not suitable, where the following applies

- Organizations that consider security as a prime objective
- Organizations that will not be able to handle hybrid cloud management

Hibrid Cloud's Issues

- Students work in group to discuss those issues, the factors can be found on page 62 of the book

Hybrid Cloud's advantages

- It gives the power of both the private and public clouds.
- It is highly scalable.
- It provides better security than the public cloud.

Hybrid Cloud's disadvantages

- The security features are not as good as the public cloud.
- Managing a hybrid cloud is complex.
- It has stringent SLAs.

- The types and characteristics of
 - Community cloud
 - On Premise Community cloud
 - Outsourced Community cloud
 - Hybrid cloud

References