HYBRID CLOUD

What is Hybrid Cloud?

❑ So, what does an organization do when it wants to use the cloud both for its efficiency and cost savings but also wants security, privacy, and control? It looks at the hybrid cloud, which almost serves as a midway point between public and private cloud. The hybrid cloud uses a combination of at least one private and one public cloud. The private cloud can be on-premise or even virtual, located outside the organization's data center.   A hybrid cloud can comprise multiple private and public clouds, and it may utilize numerous active servers, either physical or virtualized, that are not included in the private cloud. With the hybrid cloud, organizations can keep each business aspect in the most efficient cloud format possible. However, with the hybrid cloud, organizations have to manage multiple security platforms and aspects and also ensure that all the cloud properties can communicate seamlessly with one another.

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A Hybrid Cloud is best suited for:

- ❑ Large organizations that want the flexibility and scalability as offered by the public cloud •Organizations that offer services for vertical markets, customer interactions can be hosted in the Public Cloud while company data can be hosted in the Private Cloud.

- ❑ need a flexible cloud structure they can adapt to their dynamic workloads

- ❑ Must process large amounts of data, e. g, for business intelligence (B1) analysis

- ❑ use temporary applications or want to introduce new ones quickly

A Hybrid Cloud is best suited for:

❑ The subject is very strict legal and data protection regulations but still want to make use of the flexible public cloud resources and services

❑ Operating globally and do not want to run private clouds or data centers at every site

❑ do not want to rush anything and prefer to gradually migrate workloads to the cloud.

HYBRID CLOUD

Hybrid Cloud

Public Cloud

Private Cloud

Traditional Infrastructure
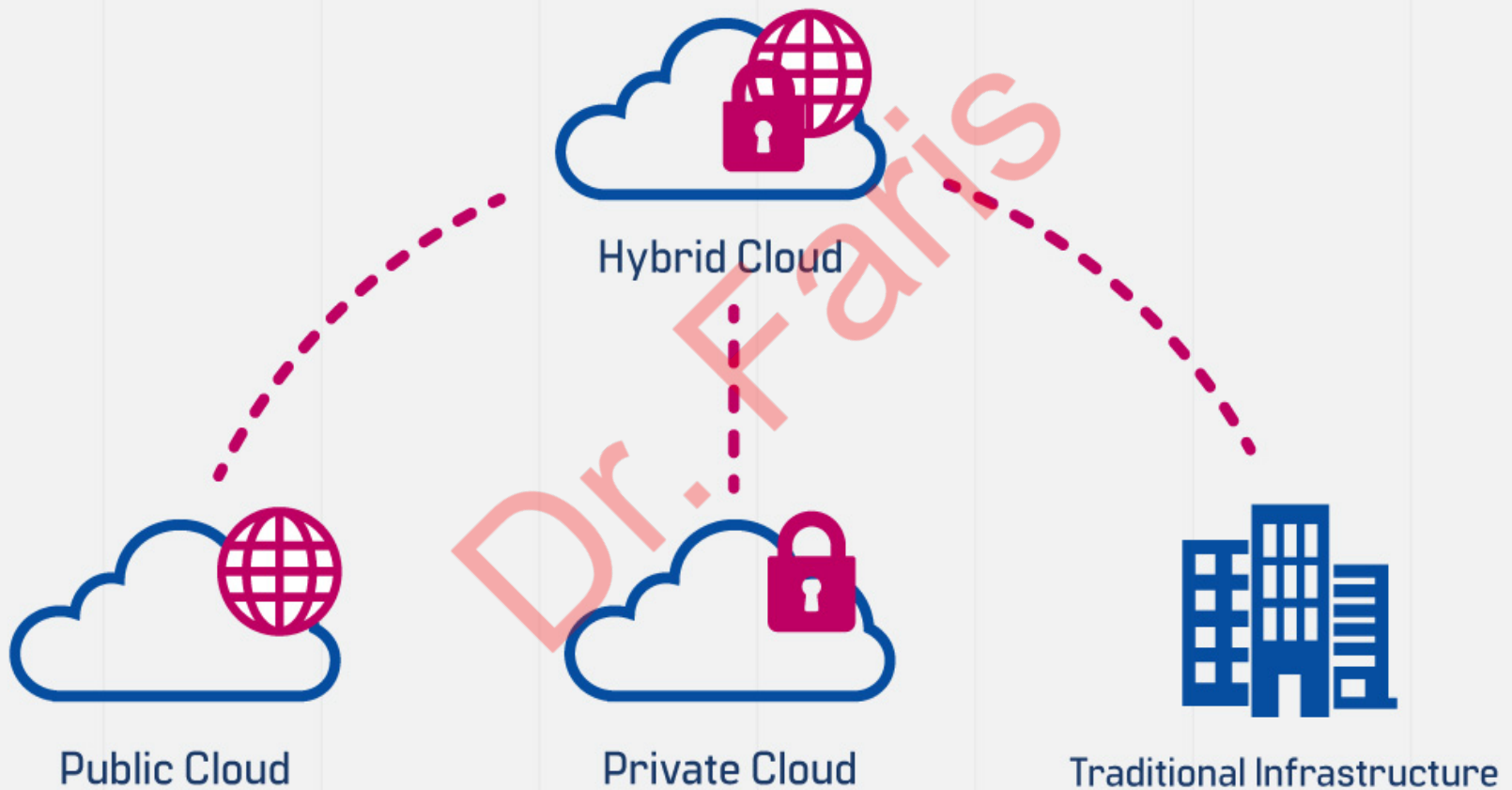
The Architecture of Hybrid Cloud

The architecture of hybrid cloud computing comprises 3 major components:

❑ The first requirement is public infrastructure as a service, which is AWS, Azure, or Google Cloud Drive.
❑ The second requirement is a private cloud.
❑ The third major requirement is a Wide Area Network (WAN), which connects the two environments.

A successful hybrid cloud is created with the help of Hypervisors and the layers of cloud software. These implementations of software and service instances to migrate between private and public clouds.