

## 4- Cloud Models

- [Private](#)
- [Public](#)
- [Hybrid](#)
  - [Multi-cloud](#)

deployment type of cloud resources.

1. Private
2. Public
3. Hybrid

### Private

It's a cloud (delivering IT services over the internet) that's used by a single entity.

### Public

A public cloud is built, controlled, and maintained by a third-party cloud provider.

### Hybrid

A hybrid cloud is a computing environment that uses both public and private clouds in an inter-connected environment.

users can flexibly choose which services to keep in public cloud and which to deploy to their private cloud infrastructure.

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Public cloud	Private cloud	Hybrid cloud
No capital expenditures to scale up	Organizations have complete control over resources and security	Provides the most flexibility
Applications can be quickly provisioned and deprovisioned	Data is not collocated with other organizations' data	Organizations determine where to run their applications
Organizations pay only for what they use	Hardware must be purchased for startup and maintenance	Organizations control security, compliance, or legal requirements
Organizations don't have complete control over resources and security	Organizations are responsible for hardware maintenance and updates	

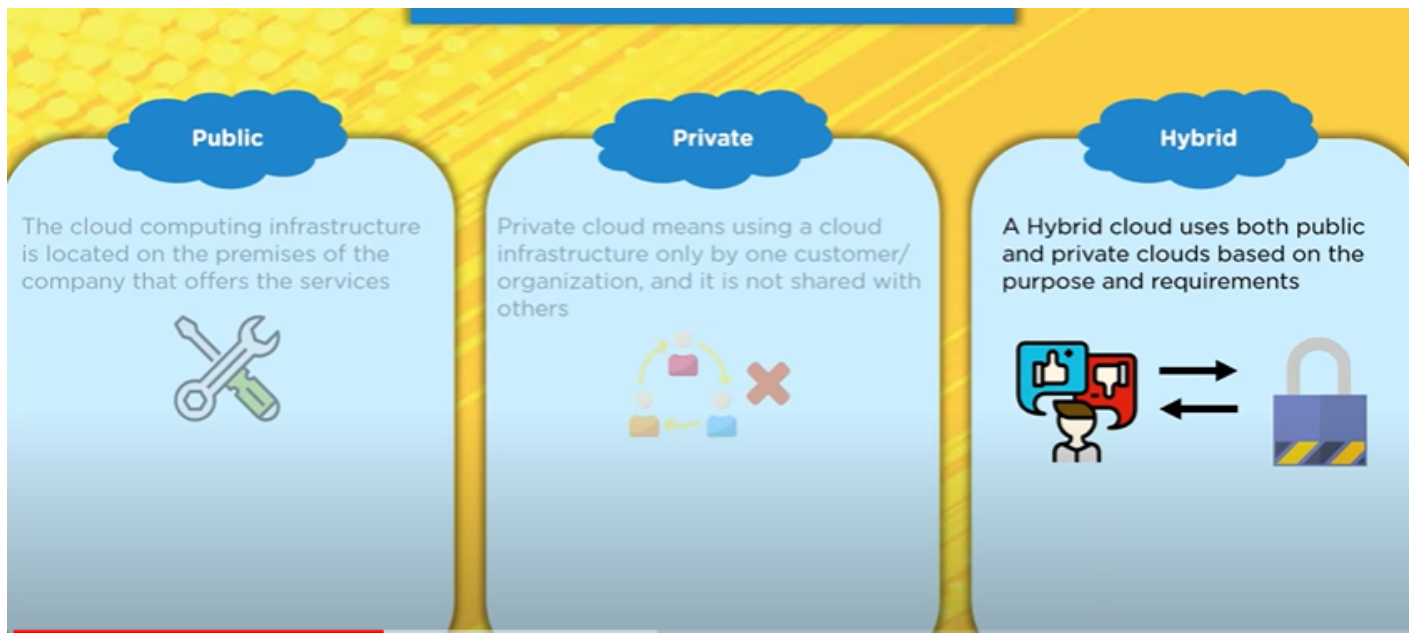
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## Multi-cloud

- you use multiple public cloud providers.
- Maybe you use different features from different cloud providers.
- Or maybe you started your cloud journey with one provider and are in the process of migrating to a different provider.

Regardless, in a multi-cloud environment you deal with two (or more) public cloud providers and manage resources and security in both environments.

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## Exposure to Public

### Public

Anyone can use public cloud services



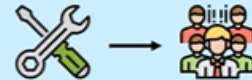
### Private

Only the organization can use private cloud services



### Hybrid

The services running on private cloud user can be accessed only by the organization



Anyone can access the services running on a public user



## Data Center Location

### Public

On the internet where the cloud service providers are available



### Private

Inside the organization network



### Hybrid

Inside the organization for private cloud services and anywhere on the internet for public cloud services



## Cloud Service Providers

### Public

The Cloud service provider manages the services whereas the organization uses them



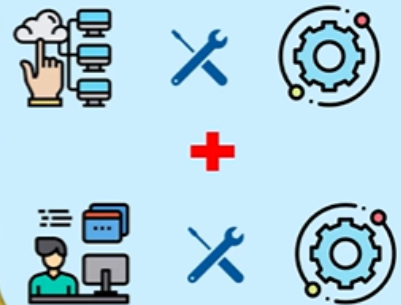
### Private

The organizations need to have their administrators to manage private cloud services



### Hybrid

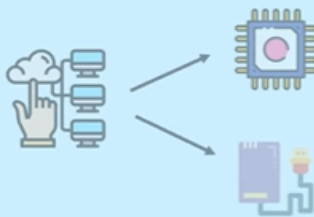
The organization operates the private cloud whereas cloud service providers manage the public cloud



## Hardware Components

### Public

The Cloud service provider provides all the hardware's and ensures its working properly



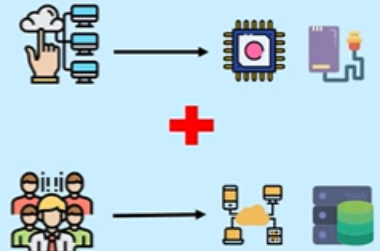
### Private

The organization offers hardware, it buys all physical servers on which the cloud is built



### Hybrid

The organization provides hardware for private cloud whereas the Cloud service provider provides all the hardware for the public cloud





## Expenses

### Public

The Cloud service provider provides the hardware, sets-up the application and provides the network



### Private

Hardware and network must be provided by the organization, and hence it becomes expensive



### Hybrid

The organization must provide hardware and network for private cloud, and the Cloud service provider does all the installation for the cloud, so the cost is moderately fair



## Top Companies using

### Public



### Private



### Hybrid

