



Data Management in the Cloud Deployment Models

Objective



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Evaluate deployment
models

Deployment Models: Public Cloud



| The cloud infrastructure is:

- provisioned for open use by the general public
- **owned, managed, and operated** by
 - Business
 - Academic
 - government organization
 - or some combination of them
- Exists on **premise** of cloud provider

Deployment Models: Private Cloud



| The cloud infrastructure is:

- provisioned for **exclusive** use by a **single** organization comprising multiple consumers
 - e.g., business units
- **owned**, **managed**, and **operated** by
 - the organization
 - third party,
 - or some combination of them
- exist **on** or **off** premises

Deployment Models: Hybrid Cloud



| The cloud infrastructure is:

- composition of **two** or **more distinct cloud infrastructures** (private, community, or public)
 - remain unique entities
- bound together by **standardized** or **proprietary technology** that **enables data** and **application portability**
 - e.g., cloud bursting for load balancing between clouds