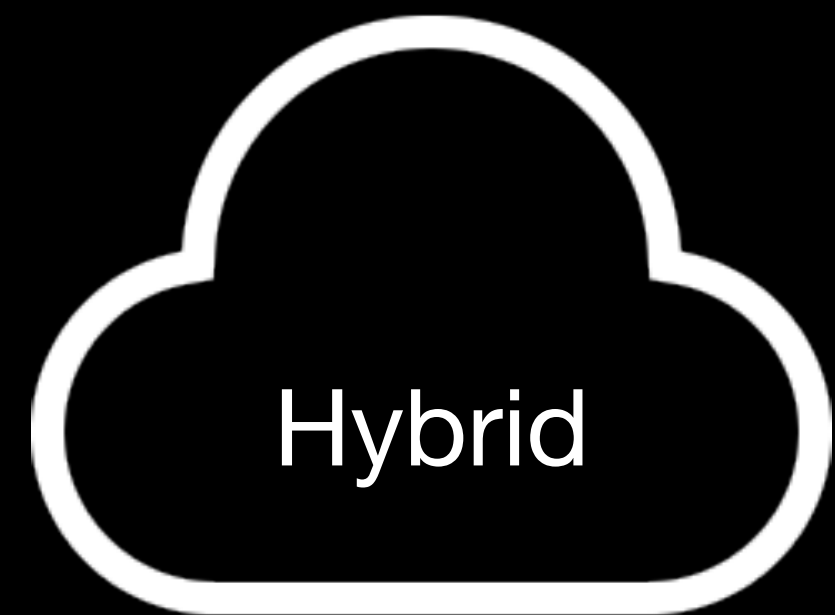
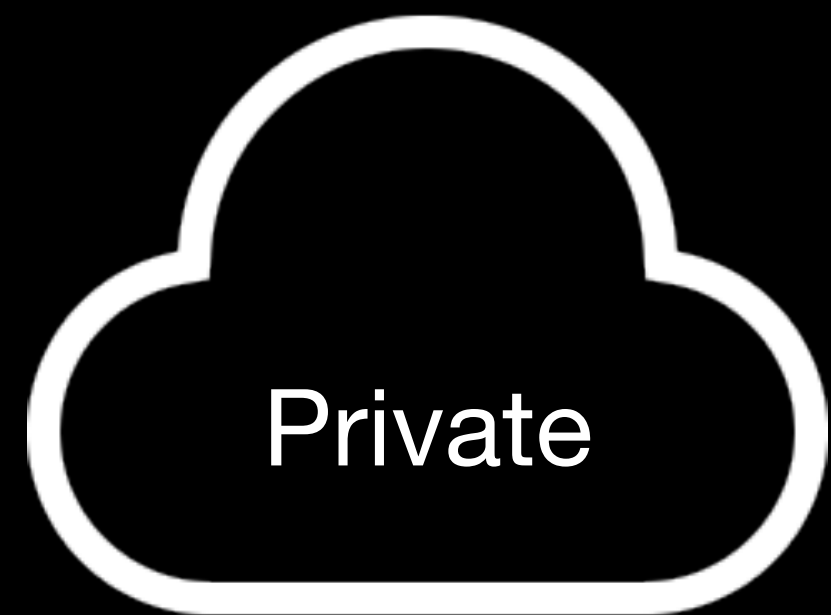
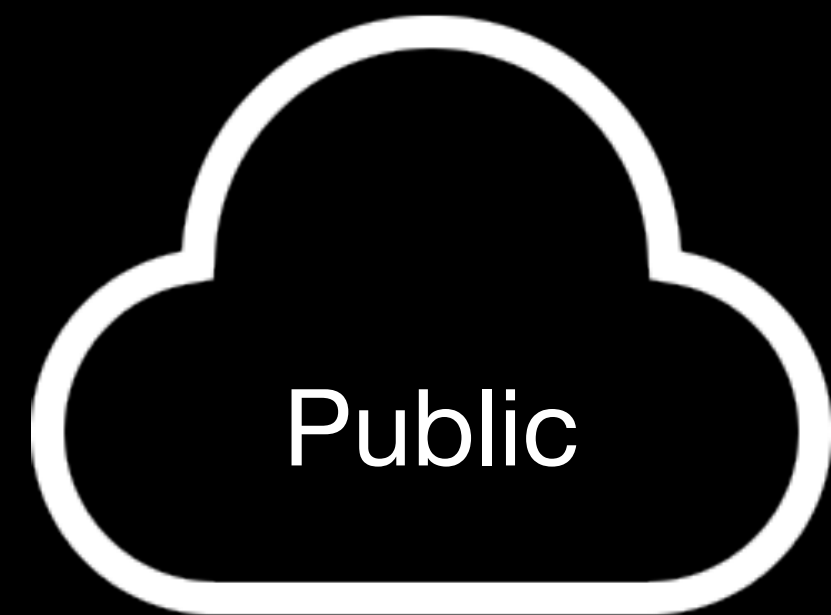


Deployment models

Architecture



Cloud Deployment

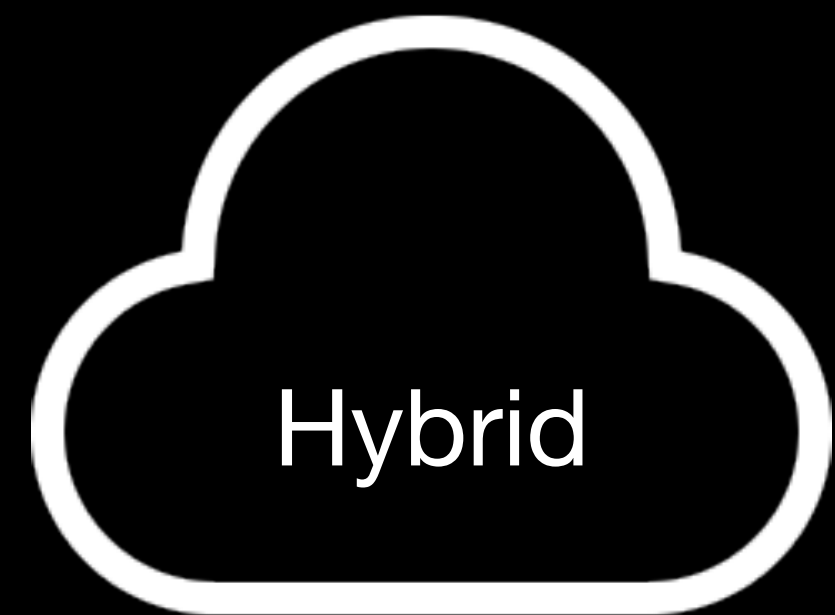
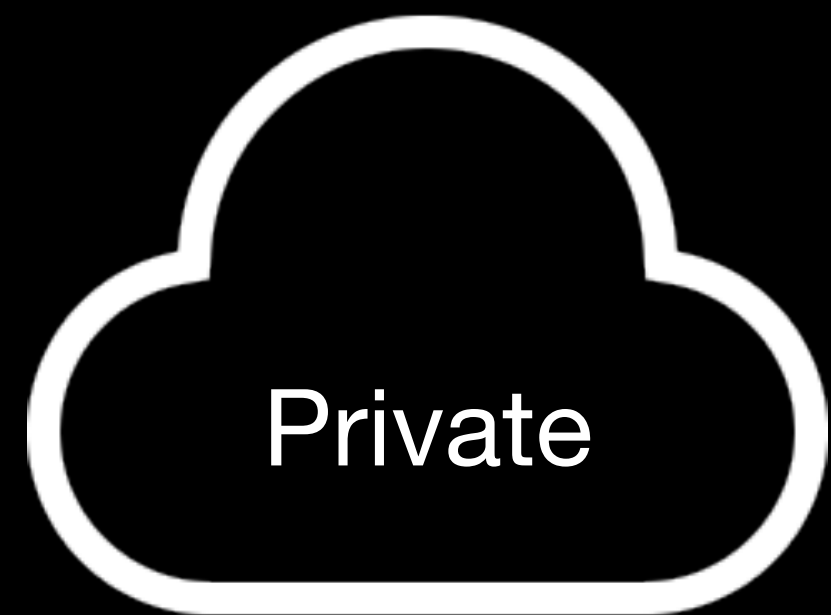
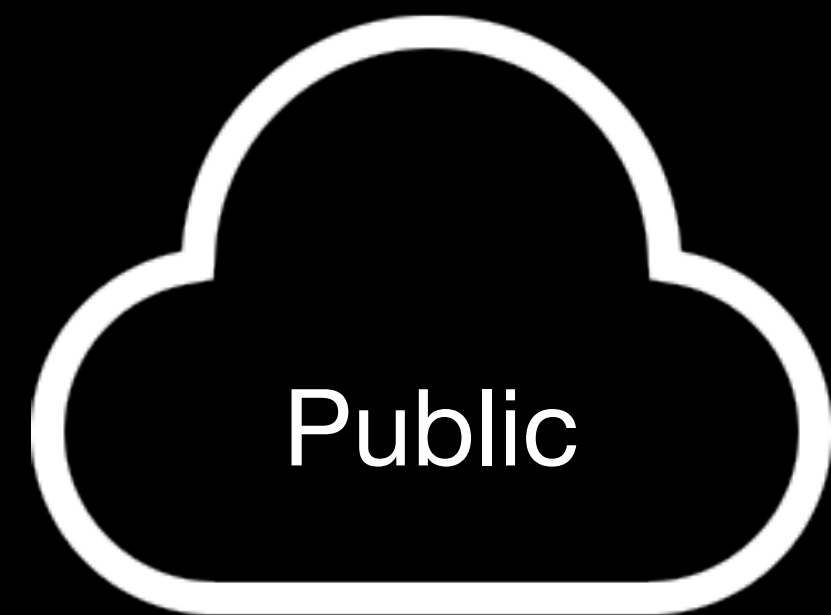
Deployment models

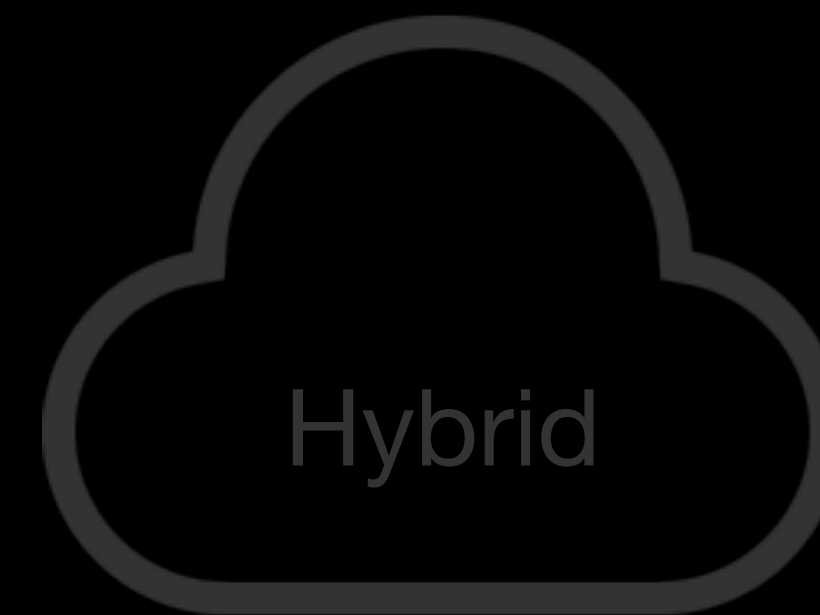
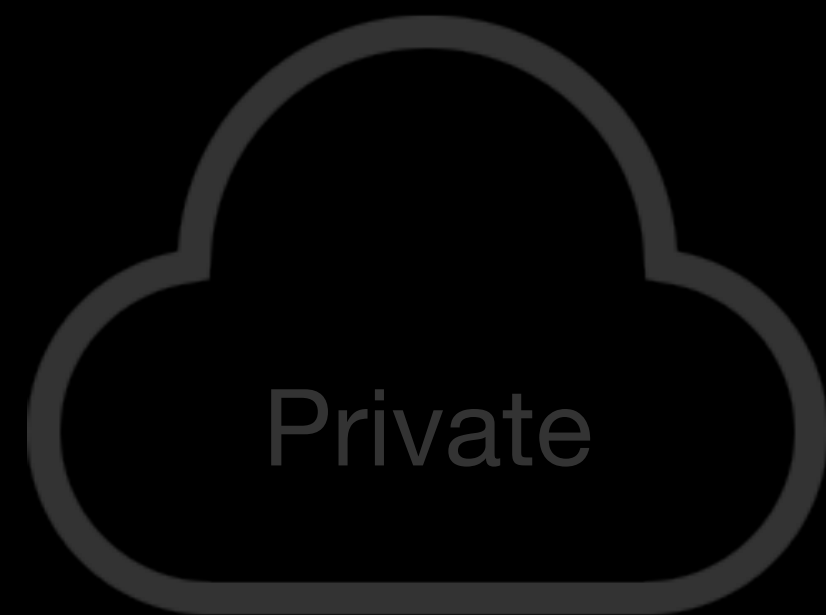
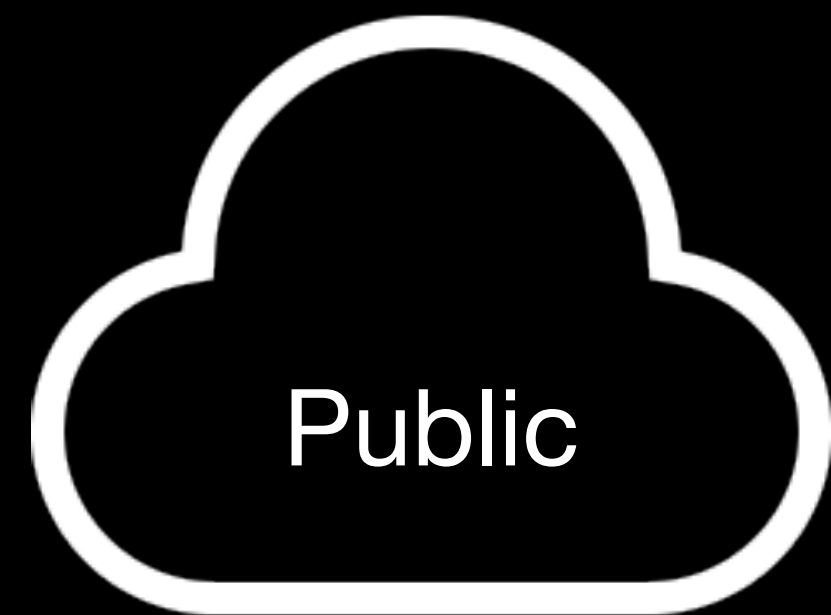
- There are essentially **four cloud deployment models**, defined in terms of control of infrastructure and clients accessing it.

Cloud Deployment

Deployment models

- **Provider and location** of the actual physical servers and other resources.
- Controller of the **virtualisation software** that generate and manage virtual machines.
- **Configuration, support and maintenance** of the infrastructure, effectively who is responsible when something goes wrong.

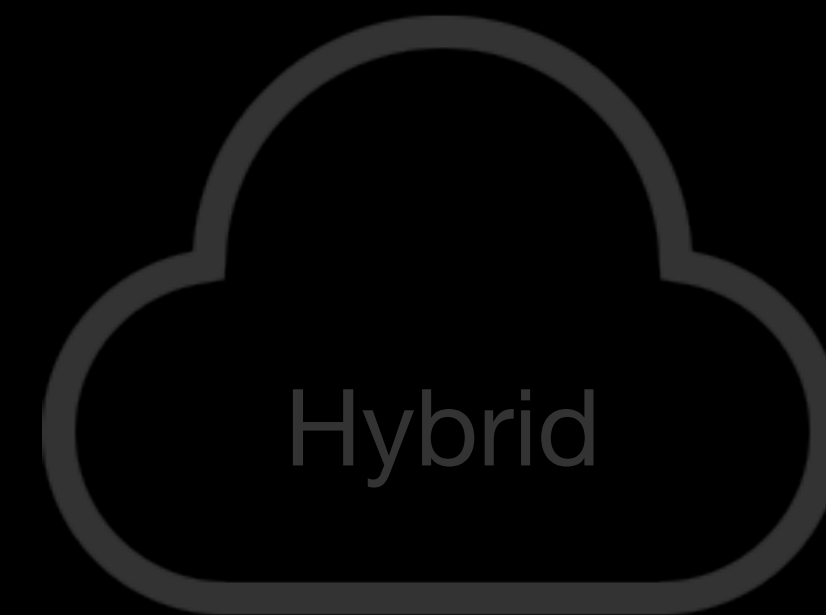
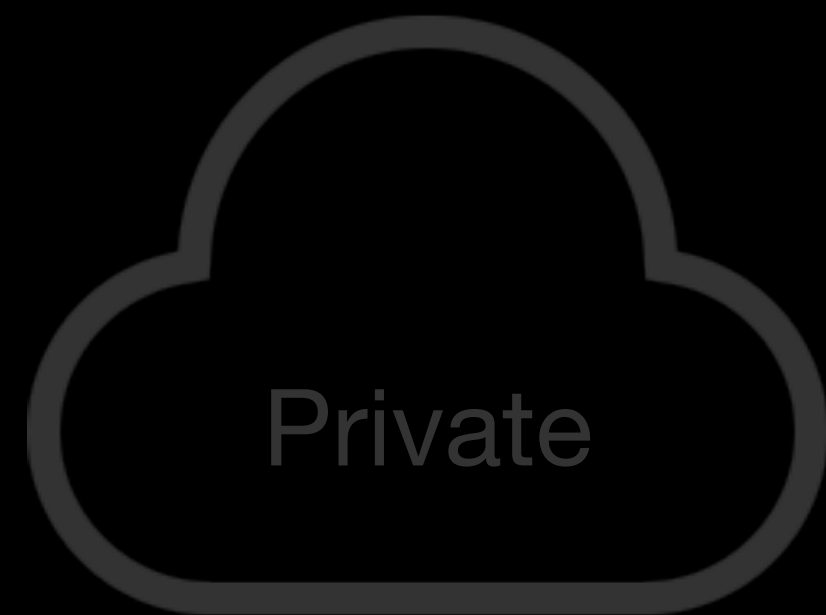
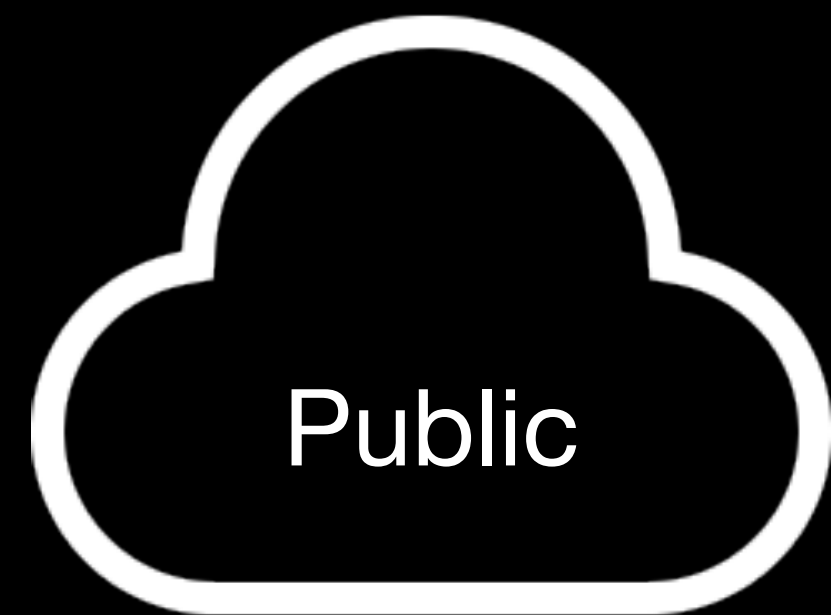


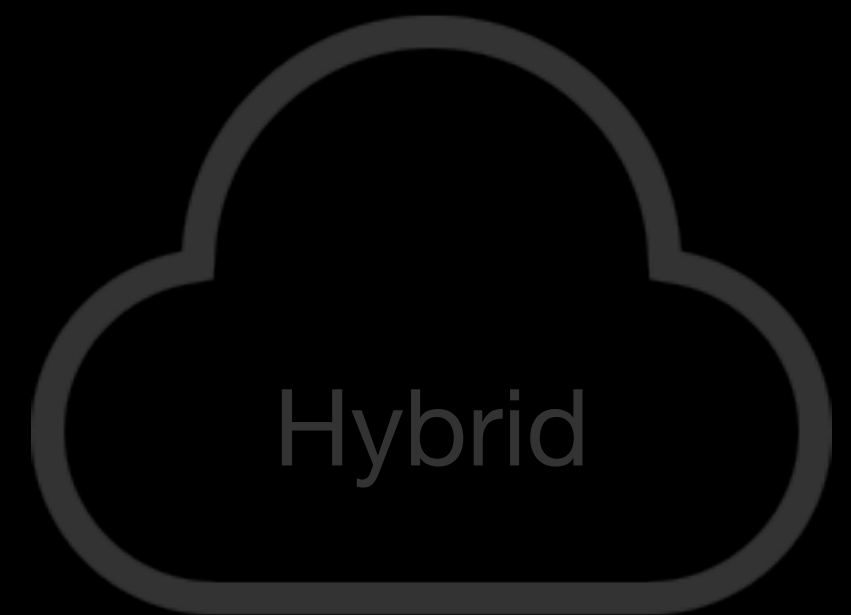
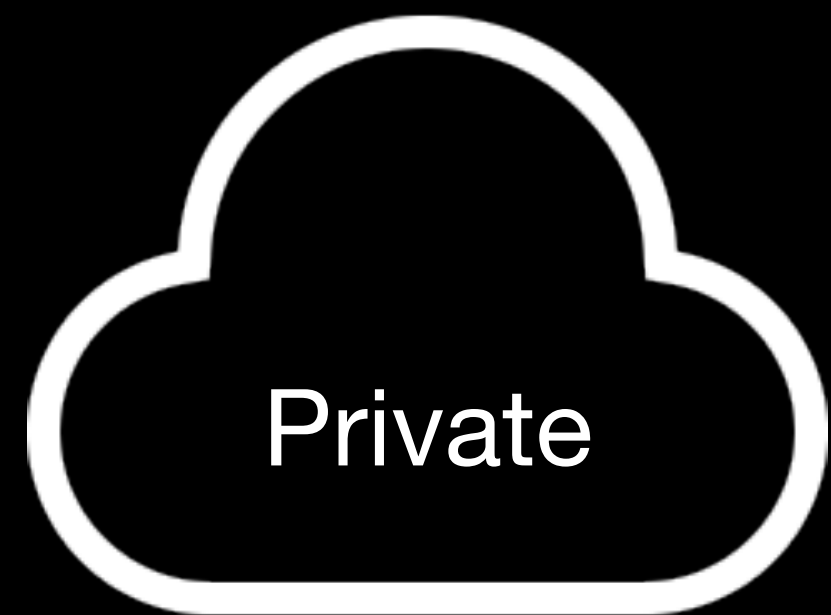
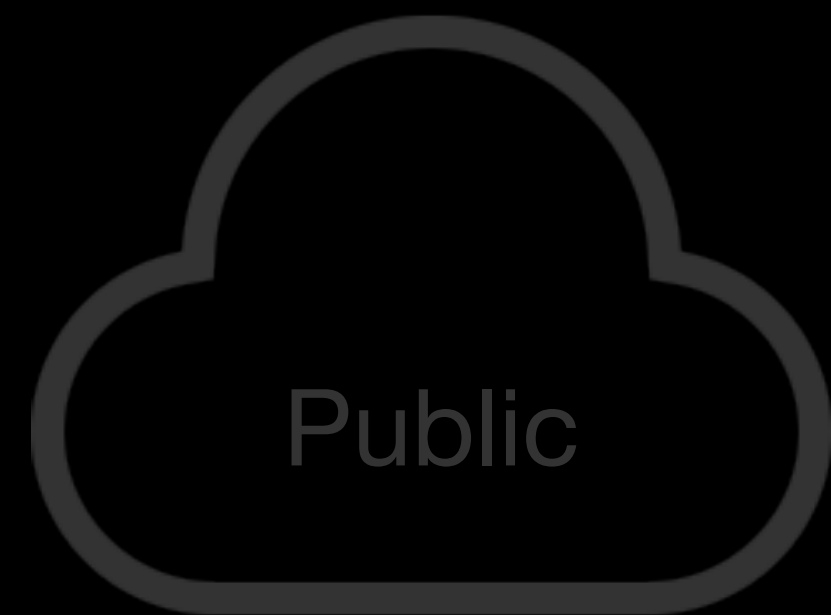


Public cloud

Deployment models

- Infrastructure is managed by a provider and open for use to the public.
- Provider may be an enterprise, government, research organisation or mixture of them.
- Infrastructure exists on the premises of the organisation managing it.
- Configuration and support is handled by the provider of the infrastructure.

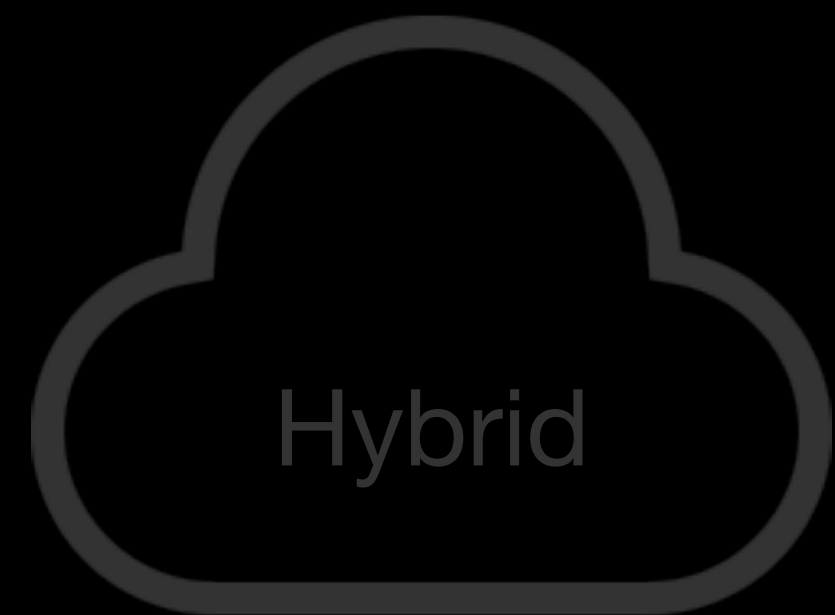
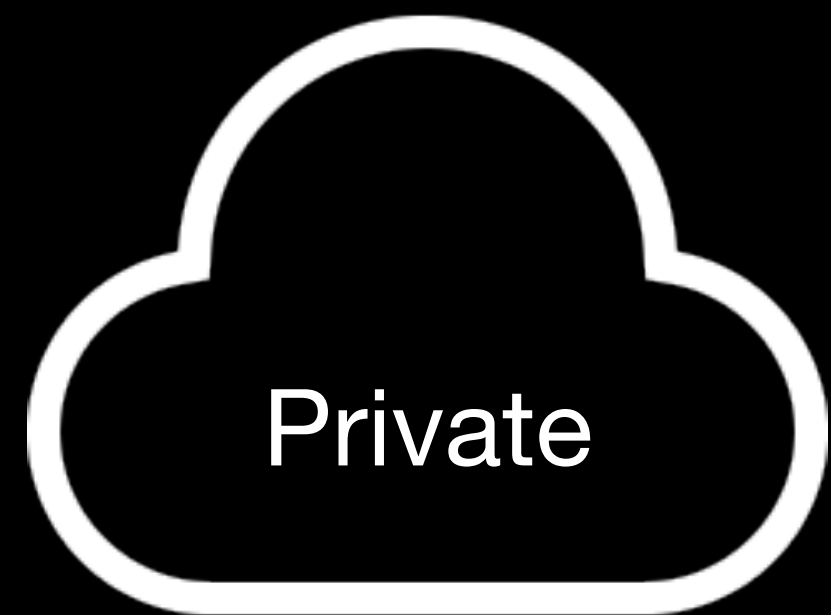
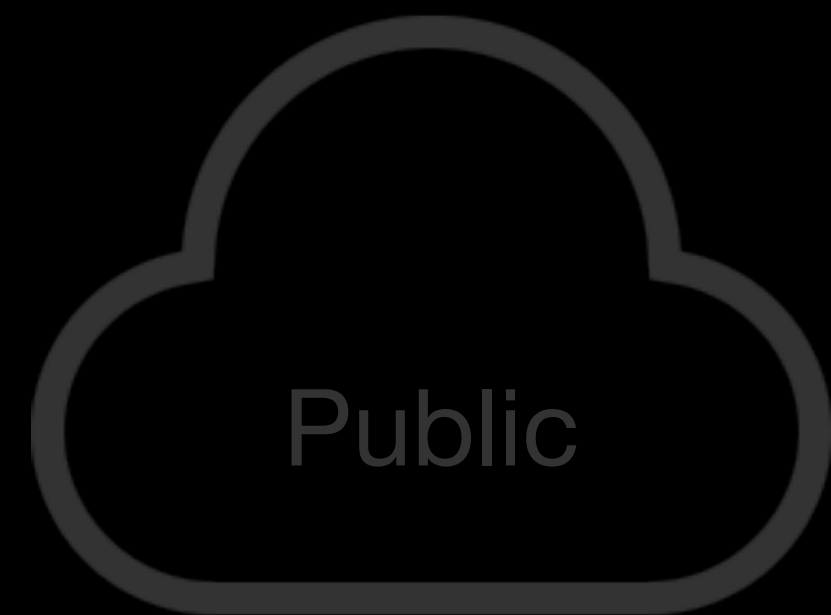


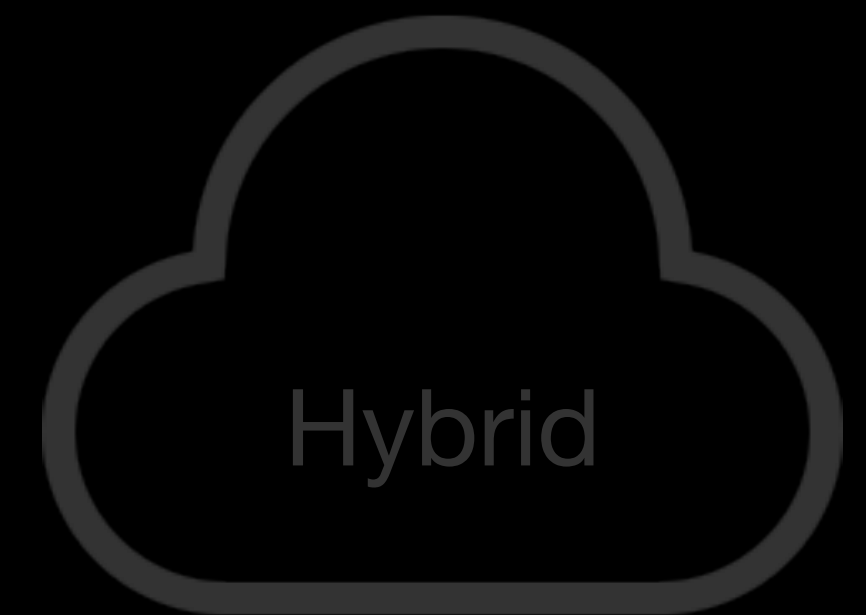
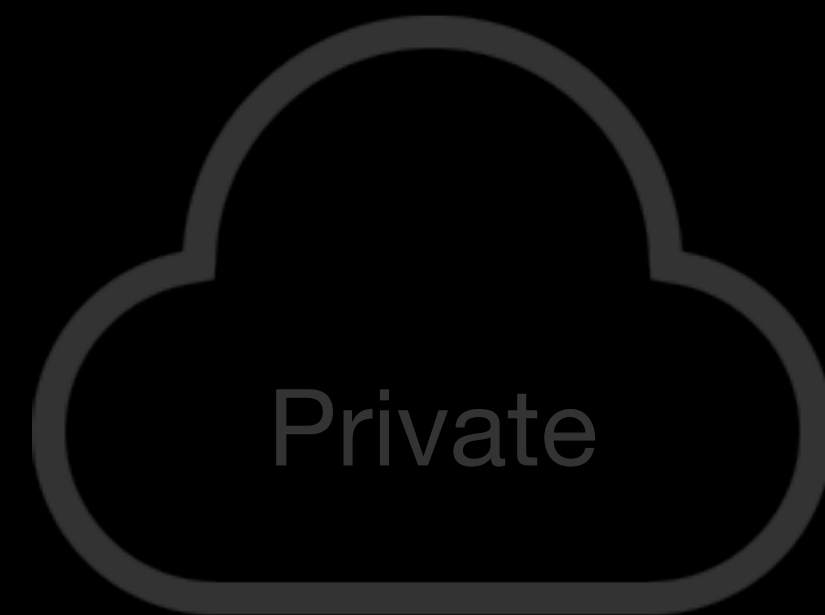
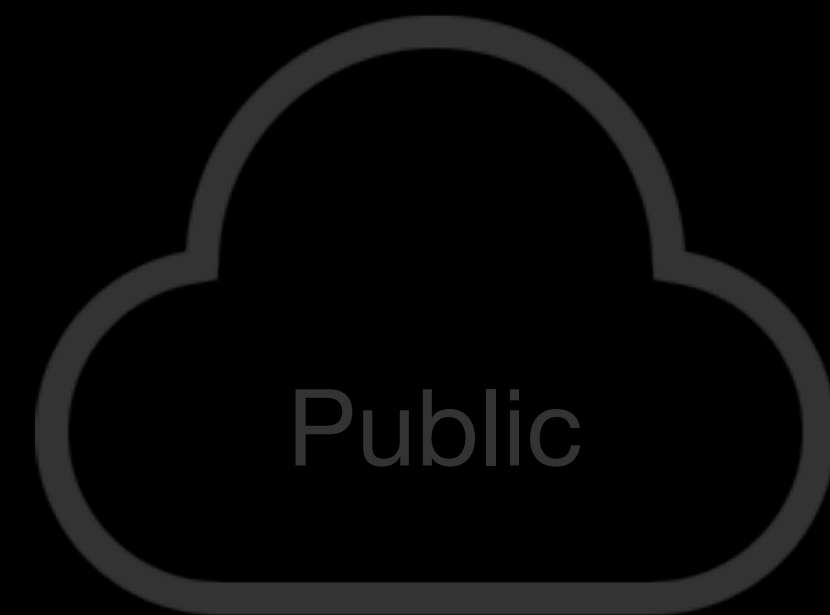


Private cloud

Deployment models

- Infrastructure is for the exclusive use of an enterprise and its business units.
- Infrastructure itself may be managed internally or an third-party organisation may manage the infrastructure.
- Management could be a mixture between the enterprise and third-party.
- Infrastructure, whether its managed by third-party or enterprise, could be located on or off premises.

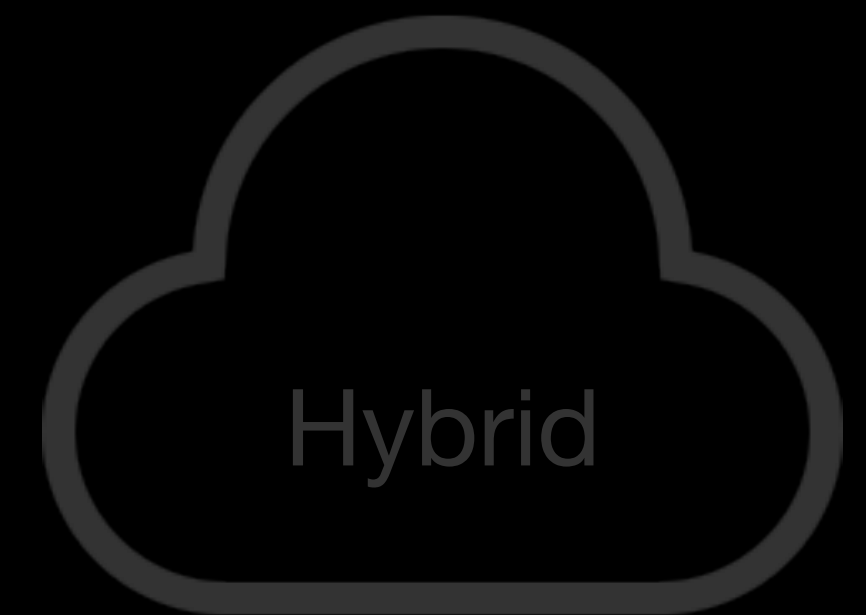
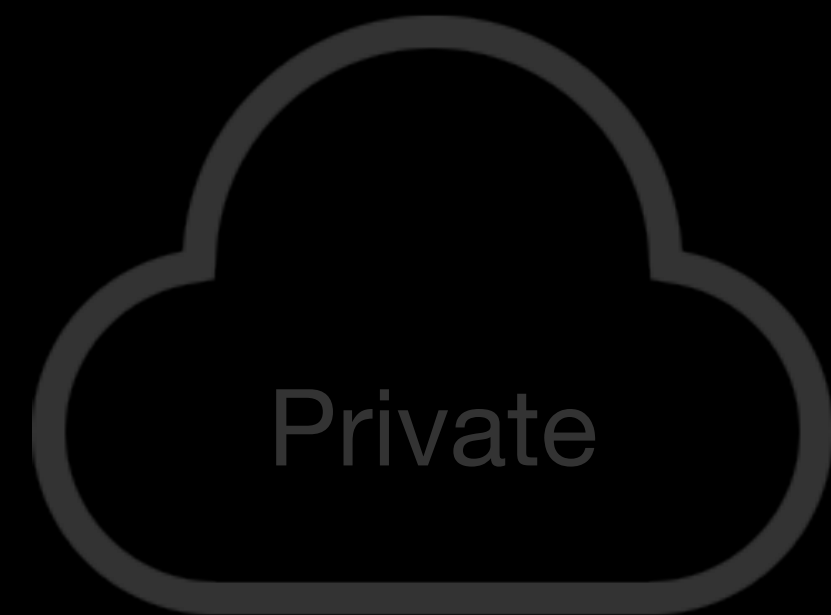
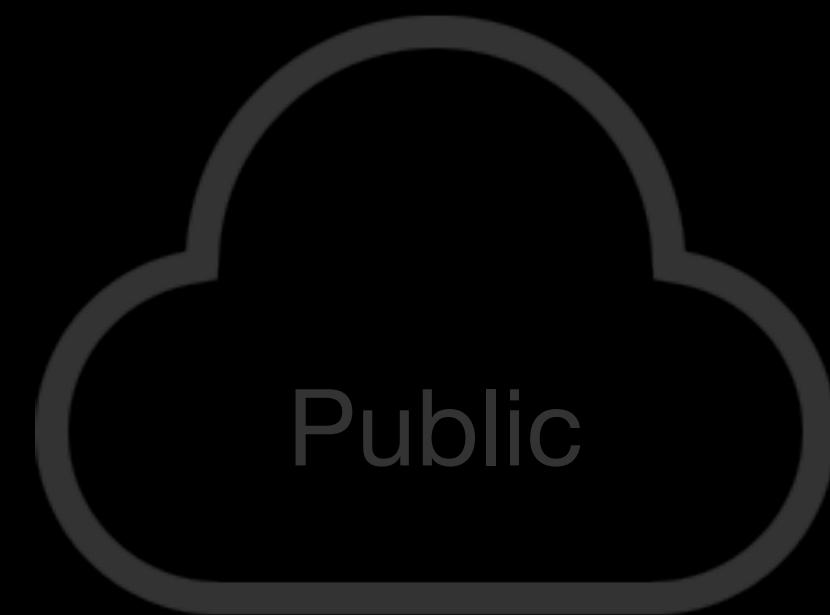


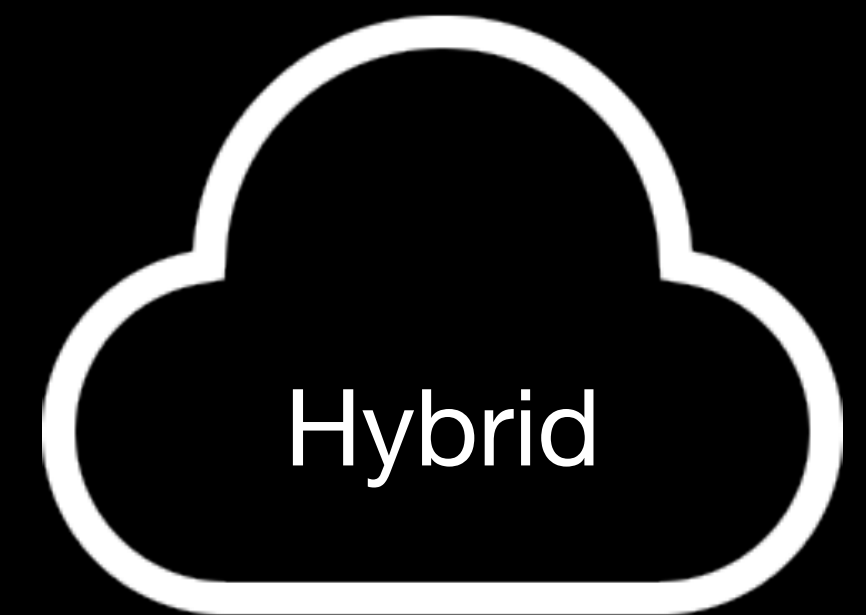
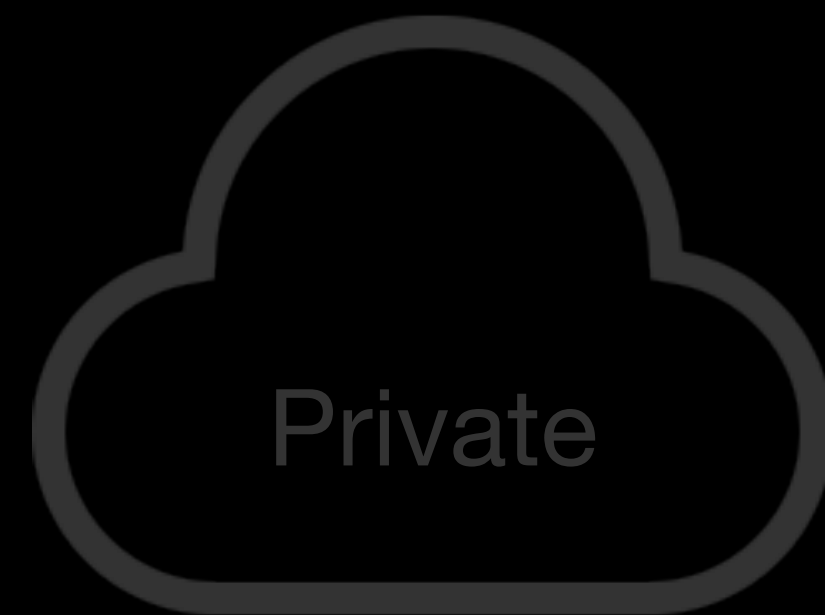
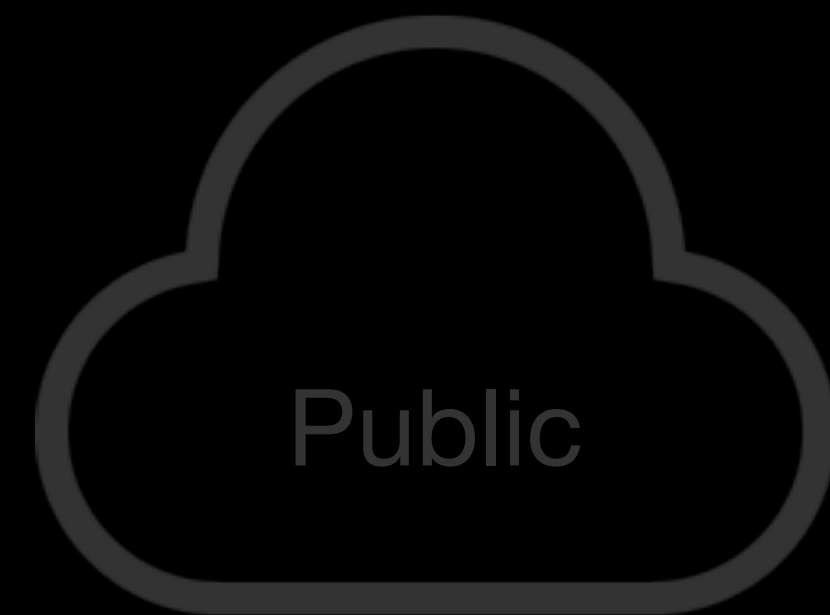


Community cloud

Deployment models

- Infrastructure is for the exclusive use of a community of organisations with a shared concern.
- Shared concern could be specific security requirements, compliance considerations or policy.
- Infrastructure is managed by one or more members of the community or external party.
- Infrastructure, whether its managed by third-party or enterprise, could be located on or off premises.

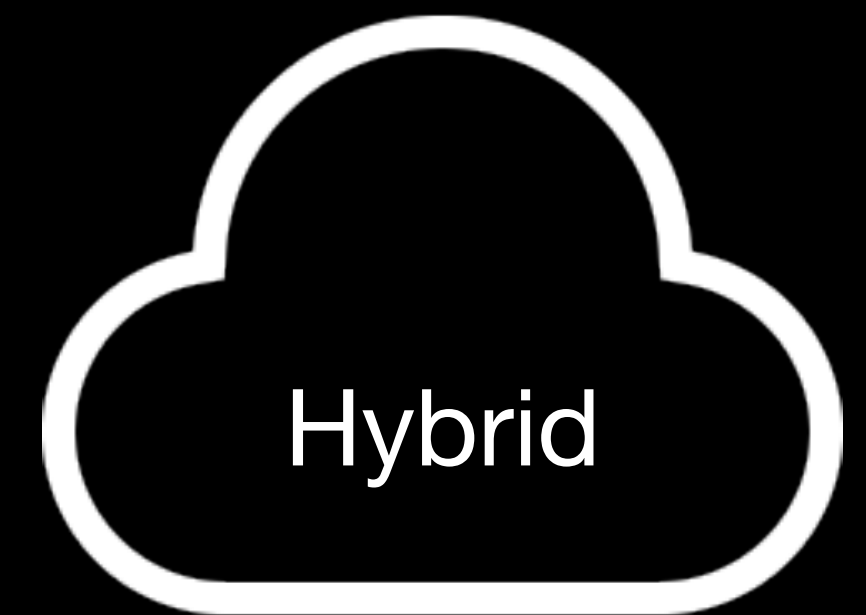
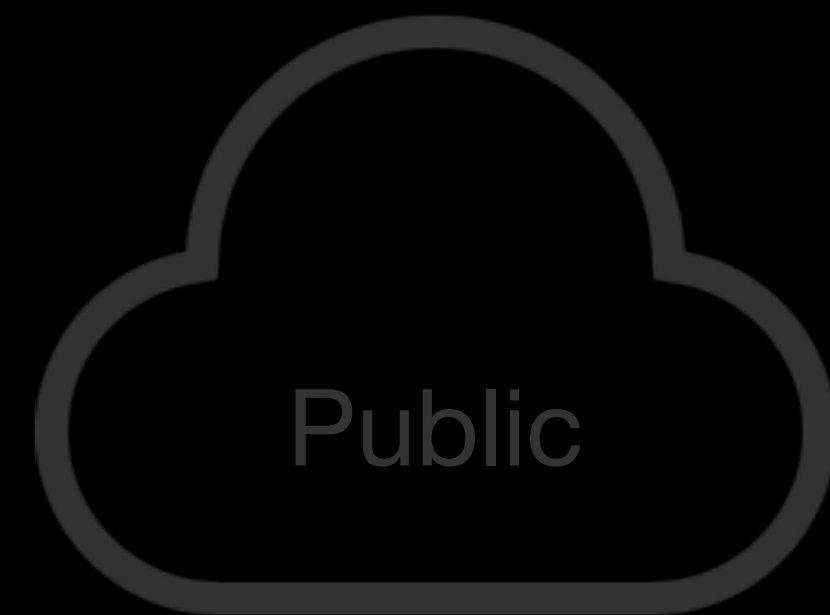


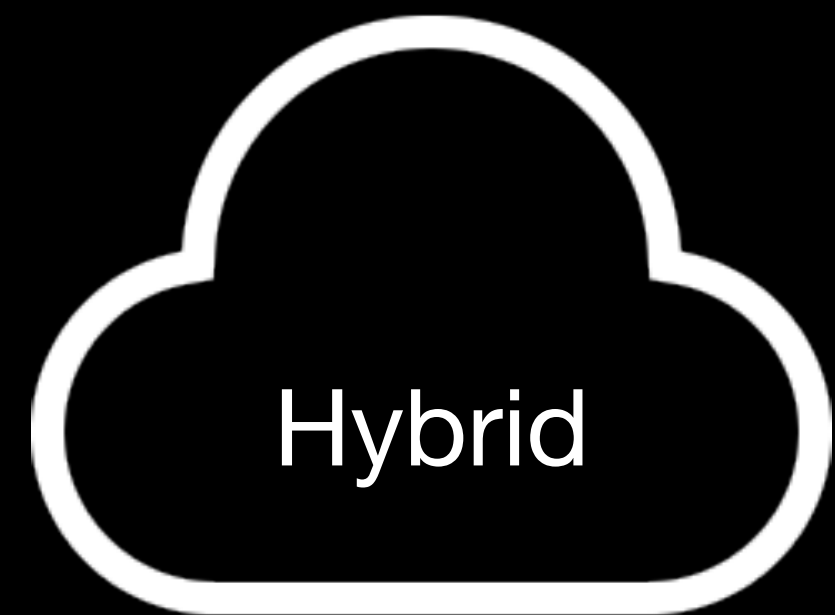
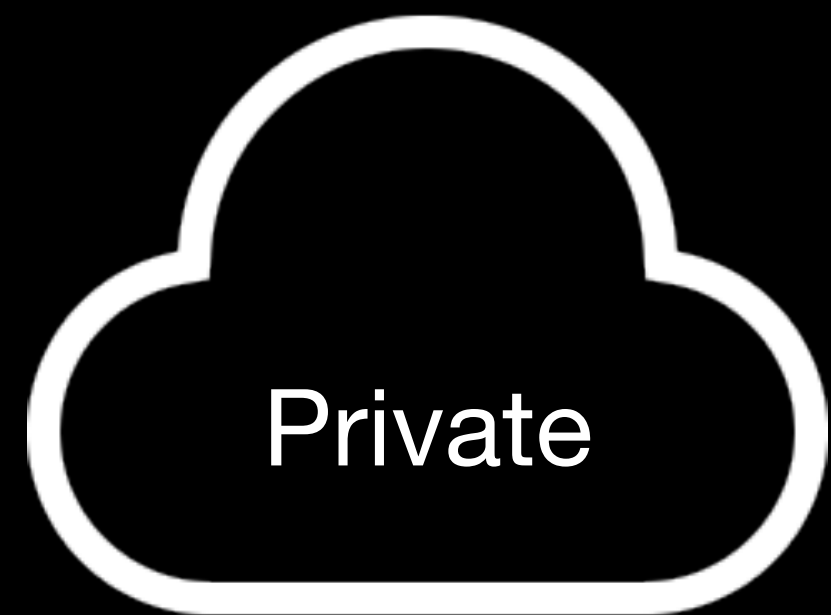
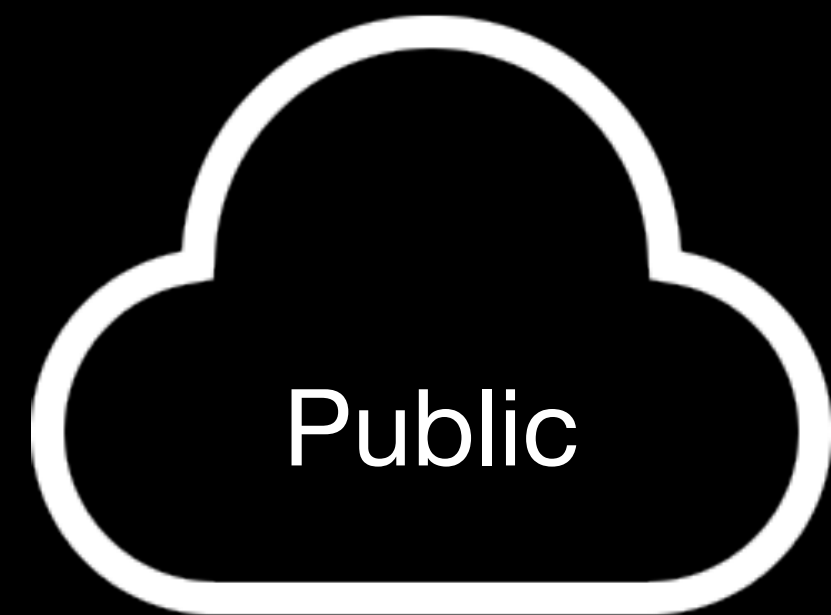


Hybrid cloud

Deployment models

- Composition of two or more of private, community or public infrastructures.
- Sown together using standards or proprietary technology.
- Infrastructure remain independent entities but are pulled together to enable application portability and data integration.
- Cloud bursting is one example, where a private cloud can make use of public cloud when demand increases.





Deployment models

Architecture