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Scenario

A mid-sized hospital is planning to move some of its IT systems to the cloud.

- Patient medical records are highly sensitive and must comply with strict privacy regulations.
- The hospital's appointment booking system must be accessible 24/7 and handle traffic spikes.
- The hospital has a limited IT staff and wants to reduce infrastructure costs.
- The hospital plans to gradually migrate systems over the next 2 years.

Student Task

Individually or in small groups, answer the following:

1. Which cloud deployment model (Public, Private, Hybrid, or Multi-Cloud) should the hospital use?

Answer: **Hybrid cloud**

2. Why is this model the most appropriate?

Answer: **Hybrid cloud is the most appropriate since it combines both private and public cloud. Patient medical records are highly sensitive and must comply with strict regulations that are aligned to the function of the private cloud. Meanwhile, appointment booking systems can run in the public cloud, where it benefits from high availability and the ability to handle heavy traffic. Additionally, it reduces pressure on the limited IT staff by outsourcing some infrastructure management to the cloud provider. Lastly, the hospital can migrate gradually to the next 2 years, moving systems step by step without major disruptions.**

3. What are the main advantages of this model for the hospital?

Answer: **The main advantages for this hospital are strong data privacy since sensitive information remains in a controlled private environment. It provides high availability and scalability for public-facing systems ensuring the booking appointment remains accessible 24/7. Additionally, it is cost efficient since the hospital can reduce infrastructure cost by avoiding large upfront investments in hardware and can ease the workload on its limited IT staff.**

4. What limitations or risks should the hospital consider?

Answer: **Managing hybrid environments can be complex and require careful integrations and monitoring. The limitations need strong security management for it has a risk of data breaches if systems are not properly configured. Also it needs more setup and planning required, and needs trained staff or cloud partners to minimize potential downtime during the migration process. And possibly, network dependency.**