Module 2 - Video 3 Summary: Cloud Deployment Models

This video introduces cloud deployment models and guides cloud data analytics professionals in selecting the right environment for business needs.

Public Cloud

A public cloud delivers computing, storage, and network resources via the internet. Resources are shared among multiple users and managed by third-party providers. Advantages include on-demand access, scalability, no maintenance responsibilities, reliability, fast deployment, and access to innovations like AI and ML.

Private Cloud

A private cloud dedicates all resources to a single organization and is managed within on-premises data centers. It offers secure networks, compliance control, and consistent performance. However, it comes with higher maintenance and management costs.

Hybrid Cloud

A hybrid cloud combines public and private models, allowing organizations to leverage both cloud services and on-premises control. It increases computing power without expanding data centers, provides access to innovations, enhances security and compliance, and improves performance and flexibility.

Conclusion

Each cloud model—public, private, and hybrid—has unique advantages and trade-offs. Cloud professionals play a key role in guiding organizations to choose the most suitable model based on their specific needs.