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DAY 01 | PART 2

What is Cloud Computing? Public, Private and Hybrid

Rent computing power over the internet, and learn the three ways a cloud can be set up.

Cloud | Public | Private | Hybrid

WHAT YOU WILL LEARN

What is Cloud Computing? Public, Private and Hybrid

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1. Explain cloud computing in simple words
2. Compare public, private and hybrid clouds
3. Give an everyday example for each model
4. Understand IaaS, PaaS and SaaS at a basic level

CORE IDEA

What is cloud computing?

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A computer that lives somewhere else

Your laptop can run a website, save files or send emails. The cloud lets you use powerful computers owned by someone else, over the internet.

Pay for what you use

Instead of buying machines, you rent them by the hour and stop paying when you stop using them.

Fast and flexible

You can start a server in minutes and delete it when the work is done.

A library, not a bookshelf

You borrow what you need from a huge shared collection rather than owning every book.

COMPARE

Cloud deployment models

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MODEL	WHO USES IT	EXAMPLE
Public cloud	Many customers share a provider's cloud	AWS, Azure, Google Cloud
Private cloud	One organization has its own cloud setup	A bank's own data centre
Hybrid cloud	An organization connects its own cloud with a public cloud	Sensitive data on-site, apps on AWS

REMEMBER Remember: public, private and hybrid describe the setup. IaaS, PaaS and SaaS describe how much you manage.

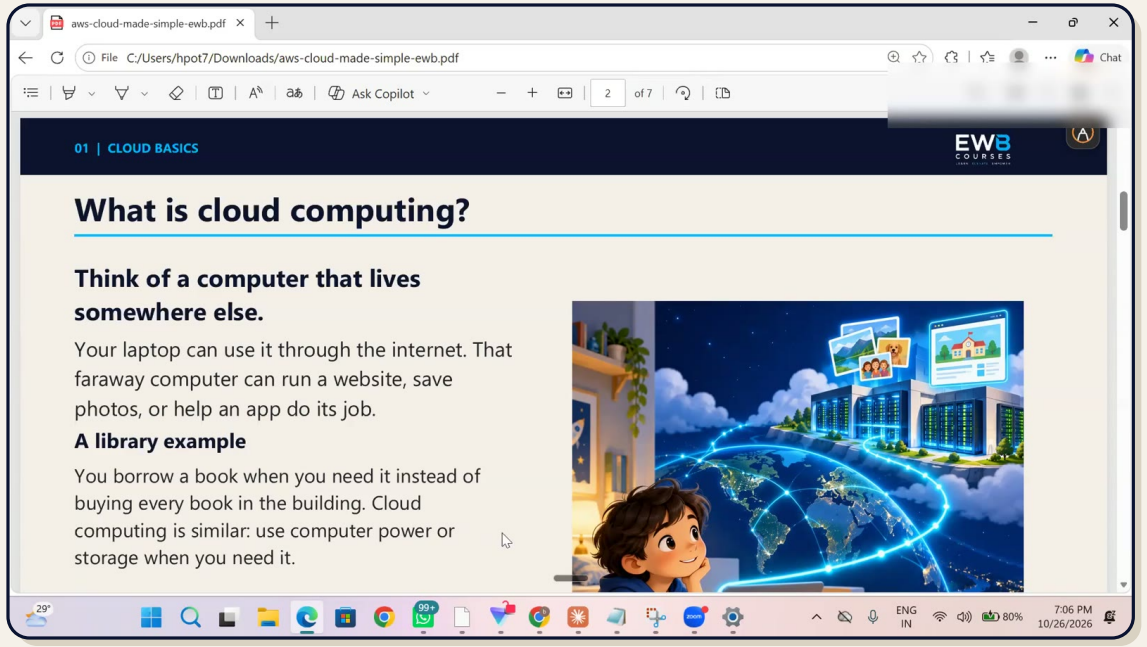
How much do you manage?

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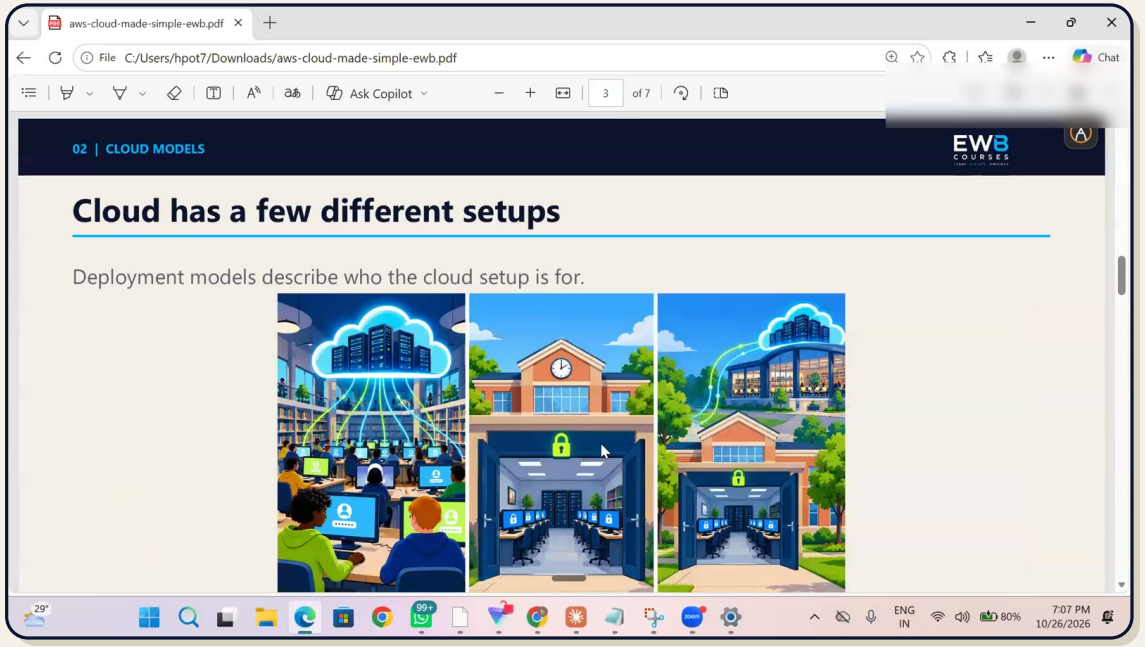
MODEL	YOU MANAGE	EXAMPLE
IaaS	Operating system, apps and data	EC2 virtual servers
PaaS	Your app and data only	Elastic Beanstalk
SaaS	Nothing - you just use it	Gmail, Zoom

FROM THE CLASS

Cloud setups illustrated



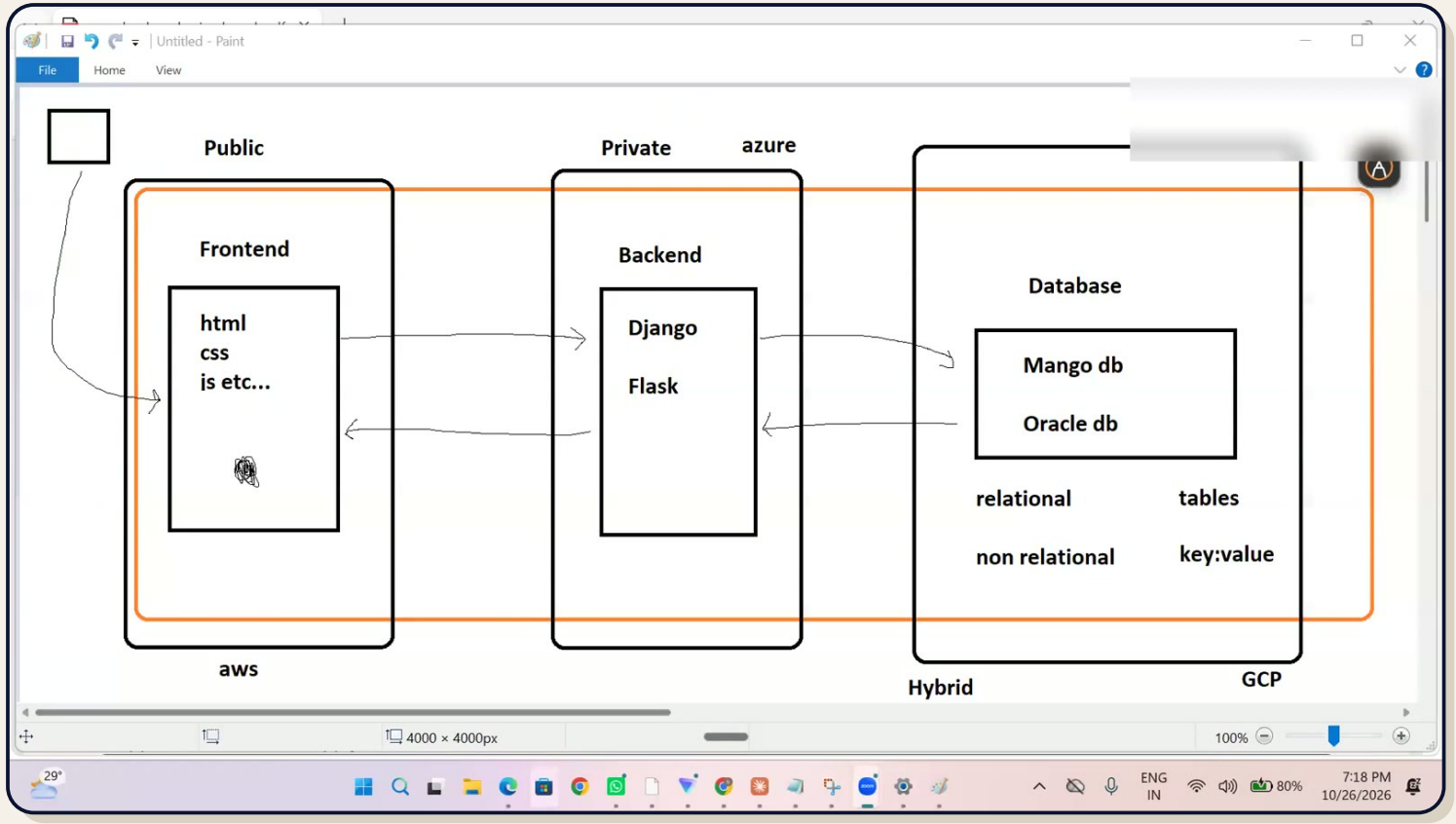
What is cloud computing? in the class guide



Cloud has a few different setups: public, private, hybrid

FROM THE CLASS

Public, private, hybrid



A moment from the recording for this part.

Public

Shared infrastructure run by a provider - the most common choice.

Private

Built for a single organization that needs tight control.

Hybrid

A mix of both so each workload sits where it fits best.

QUICK RECAP

What to remember

- Cloud = renting computing power over the internet
- Public, private and hybrid describe the setup
- IaaS, PaaS and SaaS describe what you manage
- AWS is a public cloud provider

PRACTICE

Practice questions

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Q1 **Which cloud is shared by many customers?**

A. Public
B. Private
C. Hybrid
D. None

Q2 **Gmail is an example of...**

A. IaaS
B. PaaS
C. SaaS
D. A server

Q3 **A mix of private and public cloud is...**

A. Hybrid
B. Public
C. Local
D. Solo

Q4 **EC2 virtual servers are...**

A. SaaS
B. IaaS
C. A website
D. A phone

PRACTICE

Practice questions - answers

Q1 Which cloud is shared by many customers?

Answer: A. Public

Public cloud = shared provider infrastructure.

Q2 Gmail is an example of...

Answer: C. SaaS

You just use it - SaaS.

Q3 A mix of private and public cloud is...

Answer: A. Hybrid

Hybrid cloud.

Q4 EC2 virtual servers are...

Answer: B. IaaS

You manage the OS and apps - IaaS.