EWB COURSES

LEARN. ELEVATE. EMPOWER.

DAY 01 | PART 3

Where Does AWS Live? Regions and Availability Zones

The map behind the cloud: Regions, Availability Zones and why they matter.

Region | Availability Zone | Data centre

WHAT YOU WILL LEARN

Where Does AWS Live? Regions and Availability Zones

EWB COURSES
LEARN. ELEVATE. EMPOWER.

1. Say what a Region is
2. Explain Availability Zones in plain words
3. Know why apps run in more than one zone
4. Name a Region close to India

CORE IDEA

AWS lives in secure data centres

EWB COURSES
LEARN. ELEVATE. EMPOWER.

Region

A geographic area. Pick one when you create AWS resources, for example Asia Pacific (Mumbai).

Availability Zone (AZ)

Separate locations inside a Region. An AZ can contain one or more data centres.

Why more than one AZ

Putting parts of an app in more than one AZ helps it keep working if one location has a problem.

Names to know

ap-south-1 is Mumbai. Its zones are ap-south-1a, 1b and 1c.

IN PRACTICE

Choosing a Region

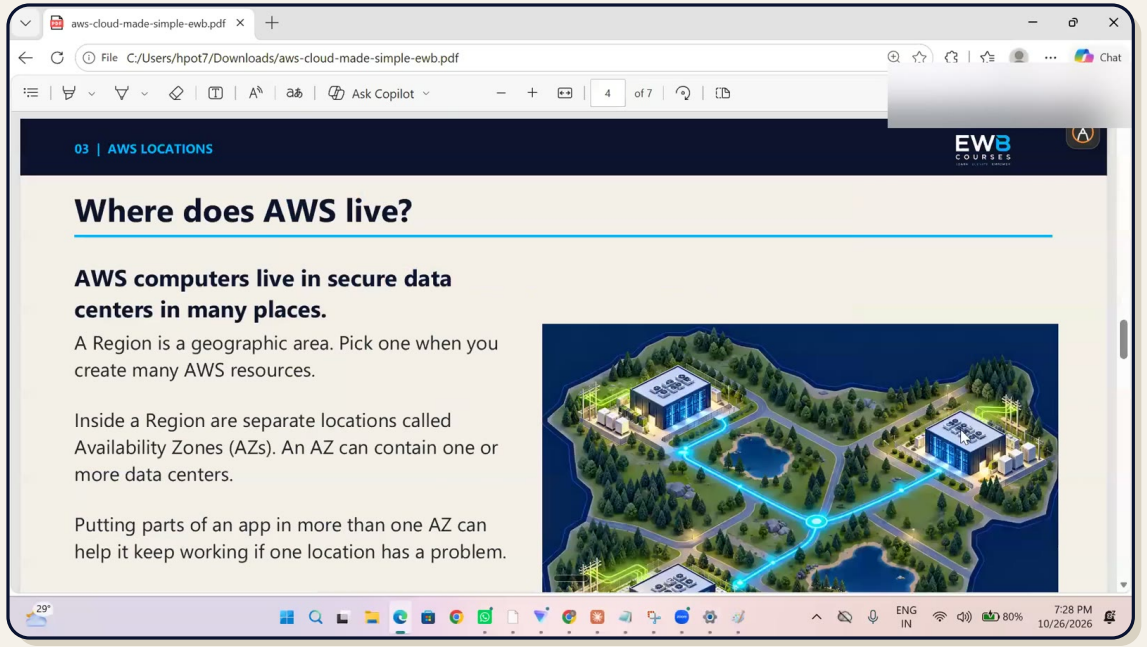
EWB COURSES
LEARN. ELEVATE. EMPOWER.

1. Look at where your users are - closer Regions give faster response
2. Check that the services you need are available there
3. Compare price - Regions can differ slightly in cost
4. Check data rules - some data must stay inside a country
5. Use the Region selector at the top right of the console

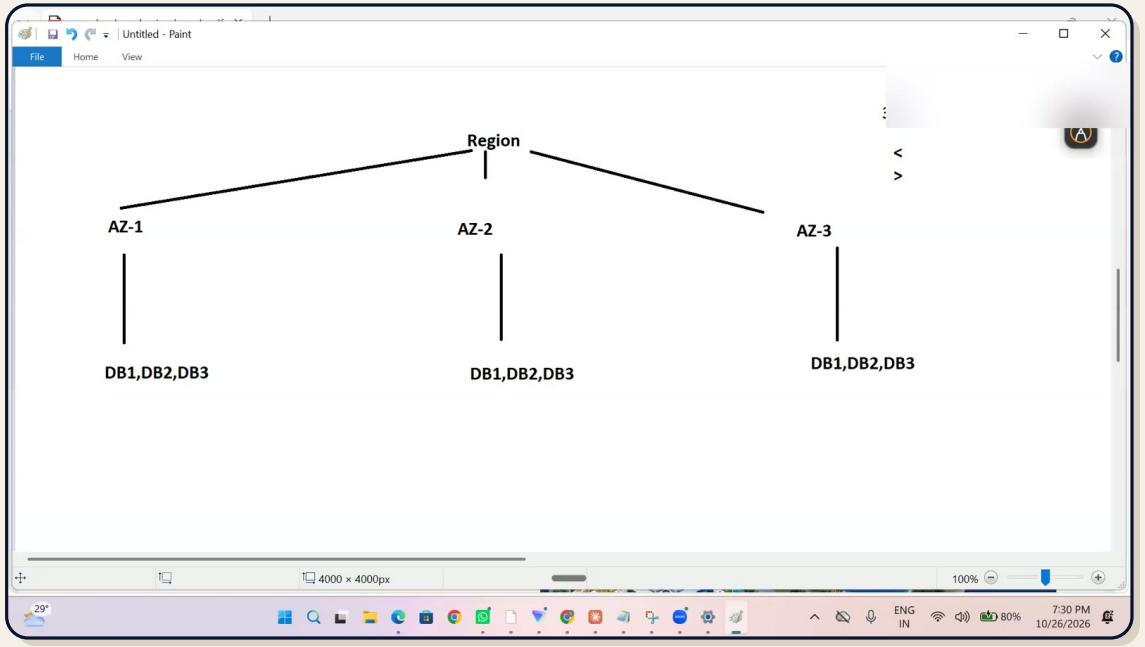
PRO TIP In class we use Asia Pacific (Mumbai) - ap-south-1.

FROM THE CLASS

Regions and zones



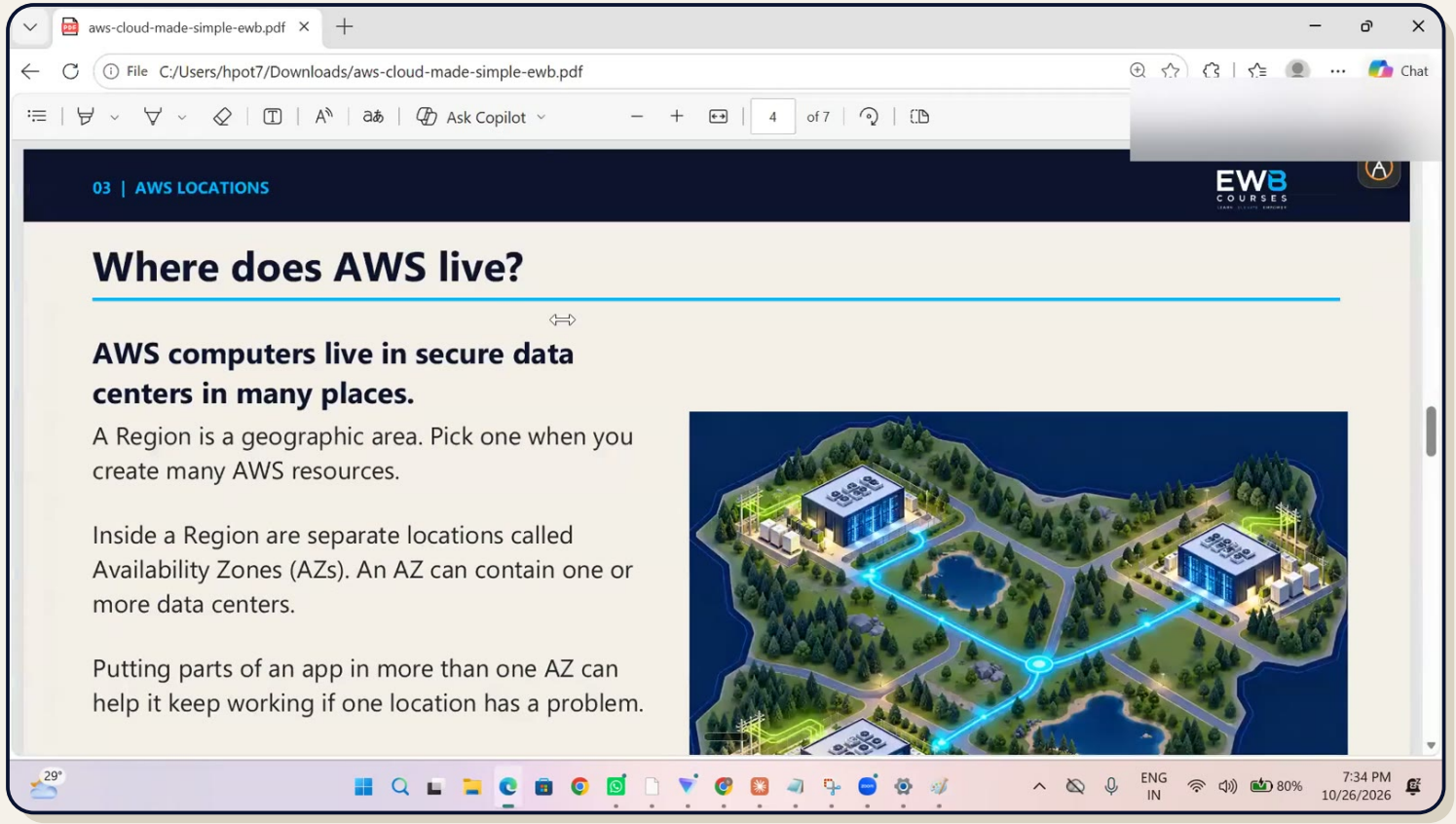
Where does AWS live? in the class guide



A Region with several Availability Zones

FROM THE CLASS

Region vs zone



A moment from the recording for this part.

Region

A whole area, for example Mumbai.

Availability Zone

A separate location inside that area.

Design tip

Spread important parts across zones so one failure does not stop everything.

QUICK RECAP

What to remember

- A Region is a geographic area
- An Availability Zone is a separate location in a Region
- Use more than one AZ for resilience
- We use Asia Pacific (Mumbai) - ap-south-1

PRACTICE

Practice questions

EWB COURSES
LEARN. ELEVATE. EMPOWER.

Q1 What is an Availability Zone?

A. A country
B. A separate location inside a Region
C. A bill
D. A key pair

Q2 Which Region do we use in class?

A. us-east-1
B. ap-south-1
C. eu-west-1
D. sa-east-1

Q3 Why use more than one AZ?

A. To look good
B. To keep working if one has a problem
C. To pay more
D. No reason

Q4 Where do you choose the Region in the console?

A. Top right
B. Footer
C. Never
D. In the key pair

PRACTICE

Practice questions - answers

EWB COURSES
LEARN. ELEVATE. EMPOWER.

Q1 What is an Availability Zone?

Answer: B. A separate location inside a Region

AZs live inside a Region.

Q2 Which Region do we use in class?

Answer: B. ap-south-1

ap-south-1 = Mumbai.

Q3 Why use more than one AZ?

Answer: B. To keep working if one has a problem

Resilience.

Q4 Where do you choose the Region in the console?

Answer: A. Top right

Region selector at the top right.