Leveraginig the aws global infrastructure

Questions	Notes
region	• is a physical location • how aws group regions?: aws logically groups its regions into geographic locations • you want to select a region that is closest to your users it improves the user exprience they will see faster downloads and response times • fully independent ans isolated: if one region is impacted , the others will not be • ressource and service specific: regions are isolated, and resources aren't automatically replicated across them
Availabilty Zones	• AZs consist of one or more physically separated data centers , each with redundant power , networking and connectivity , housed in separate facilities • did you know AZs are connected among themselves in a single region? 1. physically sparated 2. connecte dthrough low-latency links 3. fault tolerance 4. allows for high availability
Edge location	• Edge location cache content for last delivery to you users • like mini data center , but it's not used to launch ressources like EC2 instances • this is made possible through Cloudfront • Edge locations actually reduce latency • speed up the delivery of your applications
what's latency?	• latency is the time that passes between a user request and the resulting response • low latency is always a good thing because it means that your website is loading fatser

Résumé

- multi-AZ deployments provide high Availabilty
- an AZ has multiple data centers
- A region global and has more AZs
- Edge locations ensure low latency by placing content closer to users