

# Availability Zones & Regions

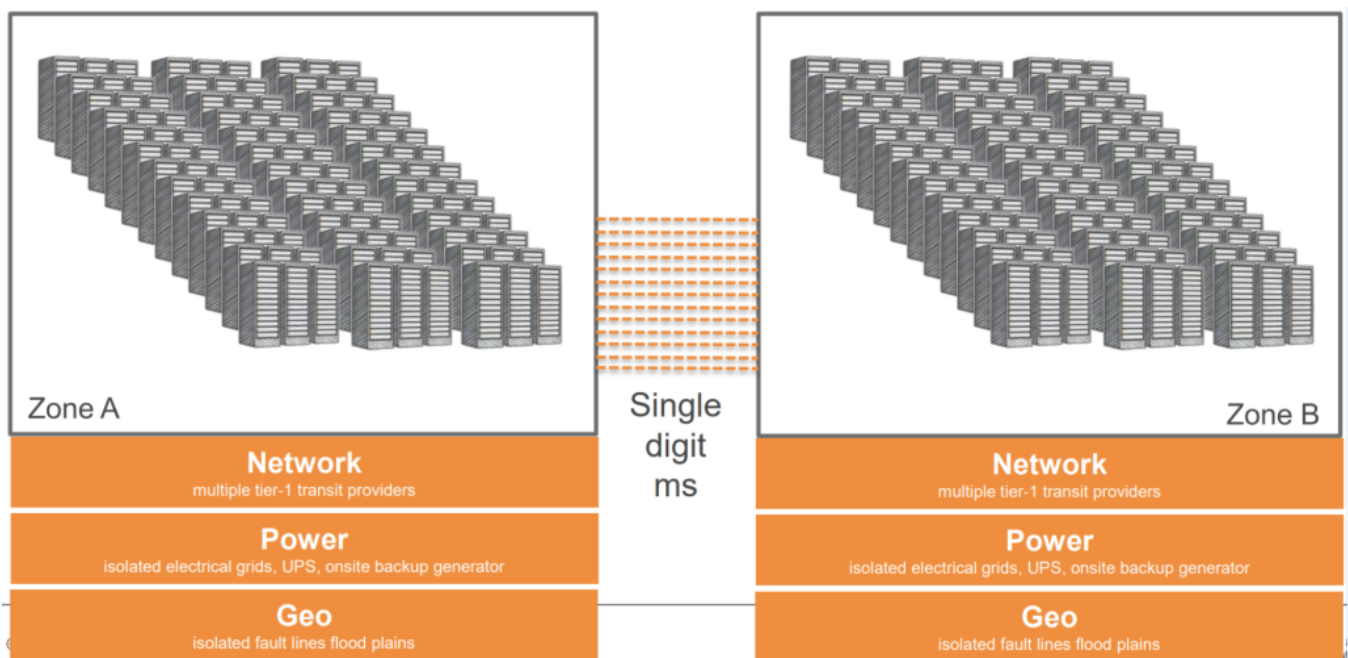
Learn the concepts of AWS Availability Zones & AWS Regions.

## Availability Zones & Regions

AWS has 16 Regions & 44 Availability zones.

A *Region* is a geographically distinct area e.g. West coast of USA

*Availability zones* are Datacenters within a region. The availability zones are fault tolerant between each other. Each Availability Zone (AZ) has its own power, and are independent to other AZ within that region.



Ideally, you design your application to be across more than one AZ that way if one AZ goes down you have another.

When designing application you try to have redundancy between the three AZs. That way if AZ1 goes down due to a power failure, AZ2 will be alive and will not be affected and in turn, your applications and its underlying data are not affected.

Region 1

