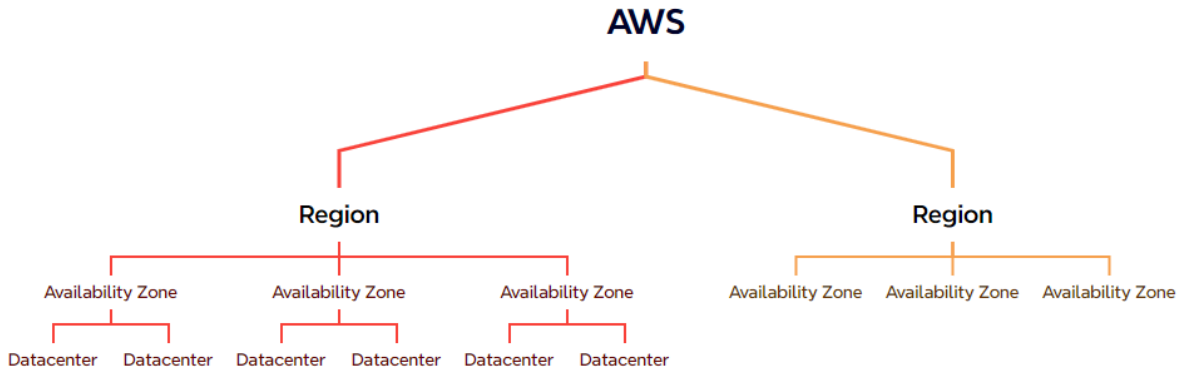


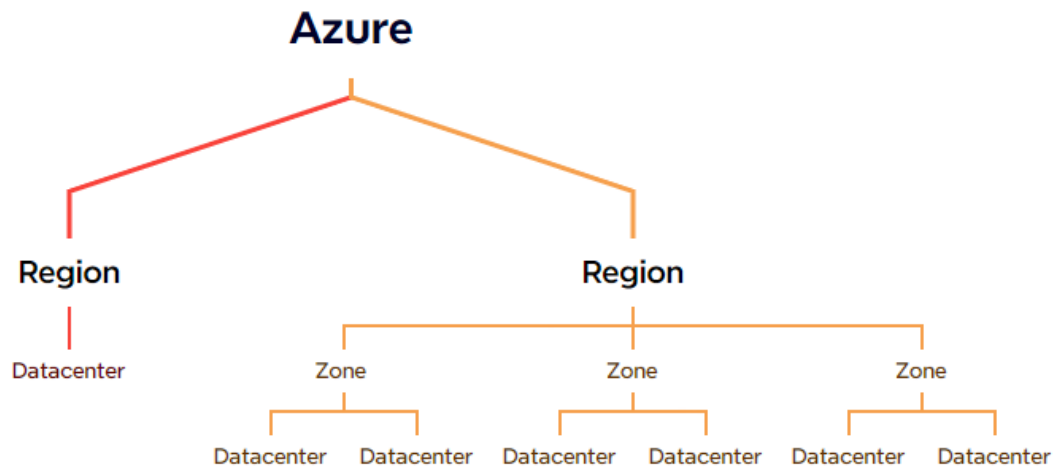
AWS Cloud

- Global Infra:
 - Regions
 - Availability Zones
 - Global Network



Azure Cloud

- Global Infra:
 - Regions
 - Zones
 - Backbone Network



- [Refer Here](#) for exploring datacenters of azure

Cloud Services

- Service: This is what is offered by Cloud Providers. Each service is metered and billing is generally pay as you go.
- Categories:
 - Compute
 - Storage
 - Network
 - Databases
 - AI/ML
 - DevOps
 - Big Data Services
- Each Service will have
 - billing
 - different options
 - Automation options
- On a Generic Note every cloud provides the following approaches to create infra
 - Website
 - AWS: Console
 - Azure: Portal
 - Command Line
 - AWS CLI
 - Azure CLI & Azure Powershell
 - Client Libraries/SDK
 - AWS SDK:
 - python: boto3
 - AWS SDK for Java ...
 - Azure SDK
 - Template
 - AWS Cloudformation
 - Azure ARM Template (Bicep)
 - Terraform (DevOps)
- Personal Accounts : We will be using free tier accounts for learning cloud.
 - By default you have admin access.
- Enterprise Accounts:
 - Landing Zones:
 - Governance rules are established
 - Roles established
 - Generally we will have multiple accounts
 - Templates
 - User Accounts
- Roles:
 - Solutions Architect
 - Developer
 - Cloud Engineer (Ops Engineer)

Activities around Databases

- Data Modelling

- Capacity Planning
- BCDR (Business Continuity and Disaster Recovery)
 - Backups
 - Recoveries
- Patching:
 - OS
 - DBMS Updates
- Storage needs
 - Expanding sizes
 - Archiving
- Migration