Brief AWS Overview

Regions & Availability Zones

History

- Early 2000, Amazon was expanding its B2B
- Standardized around early Agile, CICD, RESTful practices
- 2006, Amazon's S3 and EC2 launched
- Shortly after, several other products shipped: DynamoDB,
 CloudFront, RDS, etc
- Some that no longer exist (e.g. SimpleDB)

Regions

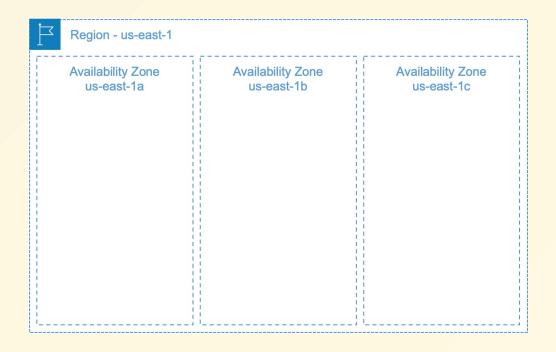
- Regions are logical groupings of physical close but isolated data centers
- Regions contain 3 or more Availability Zones (AZs)
- Original region is Northern
 Virginia (us-west-2) in
 Arlington



Amazon Regions

Availability Zones (AZs)

- Each region 3+ AZs
- Each AZ is a cluster of DC buildings
- Locations unknown but considered 'fault tolerant' b/w other AZs
- Interconnects are fiber and redundant



Non-Standard Regions

AWS GovCloud (US-East, US-West)

Requires US entity that is incorporated. Individual must be a US citizen or green card holder. Must be able to handle International Traffic and Arms Regulation (ITAR) export controlled data 1.

AWS China (Beijing, Ningxia)

Operated by another provider. Requires dedicated account.