Introduction to AWS:

* Cloud Computing
  + IT resources
  + Accessable online
  + On-demand
  + Pay-as-you-go
* AWS vs On-Premises
  + On-Prem
    - Large upfront capital expense
    - Installations and configurations
    - Physical Space, cooling and power
    - Cabling, networking, racks, servers, storage
    - Labor and certifications
    - Labor, Patches, and upgrade cycles
    - System administration
    - Engineers with dual responsibilities
    - Fixed Capacity
    - Idle Resources
    - Inadequate Capacity
    - Procurement and setup
    - Lengthly labor and intensive provisions
    - Limited geographic regions
    - Costly to expand globally
  + AWS cloud benefits
    - Click to order resources
    - Pay as you go
    - Immediate access
    - Launch Globally
    - Continually lower prices
    - Constant improvements
    - Optimize costs with pricing options
    - Focus on Innovation
    - Develop apps instead of managing ops
    - Optimize costs with pricing options
    - Flexible Capacity
    - Provision the resources you need
    - Turn off what you don’t need
    - Speed and agility
    - Fast on-demand provisioning
    - Global reach on demand
    - Lower latency to the distributed user base
* AWS Infrastructure Overview
* Defined into global regions, Availability Zones, and edge locations
  + Regions
    - An AWS Region is a geographic area with two or more AZs
    - Your region choice affects:
      * Latency Optimizations
      * Cost Optimizations
      * Regulatory Requirements
    - Completely Separate Entities
    - Inter region communications occur over the public internet
      * Encrypt data in transit