Ultimate AWS Certified Solution Architect Associate

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What's AWS?

- 1. AWS (Amazon Web Services) is a Cloud Provider
- 2. They provide you with servers and services that you can use on demand and scale easily
- 3. AWS has revolutionized IT over time
- 4. AWS powers some of biggest websites in the world
 - a. Amazon.com
 - b. Netflix

What we'll learn in this course (and more!)







Amazon ECS











Kinesis





Route 53



S3































Accelerator



Amazon ElastiCache



Amazon SNS



Amazon SWF



Amazon SES

Cognito









CloudFormation















Amazon CloudWatch

Systems Manager

CloudTrail

CodeCommit

CodeBuild

CodeDeploy

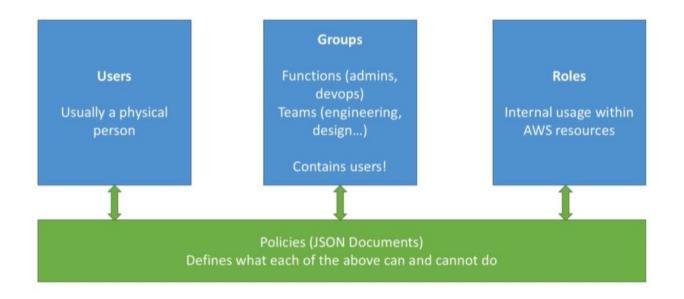
AWS Regions

- → AWS has regions all around the world (us-east-1)
- → Each region has availability zones (us-east-1a, us-east-1b)
- → Each availability zone is a physical data center in the region, but separate from the other ones (so that they are isolated from disasters)
- → AWS Consoles are region scoped (expect IAM and S3)

IAM

- → IAM (Identity and Access Management)
- → Your whole AWS security is there:
 - Users
 - Groups
 - Roles
- → Root account should never be used (and shared)
- → Users must be created with proper permissions
- → IAM is at the center of AWS
- → Policies are written in JSON

IAM



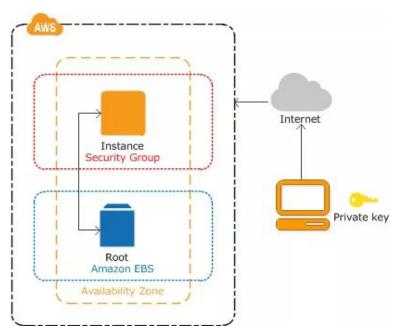
IAM

- → IAM has a global view
- → Permissions are governed by Policies (JSON)
- → MFA (Multi Factor Authentication) can be setup
- → IAM has predefined "managed policies"

IAM Brain Dump

- → One IAM User per PHYSICAL PERSON
- → One IAM Role per Application
- → IAM credentials should NEVER BE SHARED
- → Never write IAM credentials in code.
- → Never use the ROOT account expect for initial setup
- → Never use ROOT IAM credentials

EC2 - EBS backed instance



EC2 Store backed instance

