**IAM Section – Summary**

IAM = Identity and Access Management

• **Users**: mapped to a physical user, has a password for AWS Console

• **Groups**: contains users only

• **Policies**: JSON document that outlines permissions for users or groups

• **Roles:** for EC2 instances or AWS services

• **Security**: MFA + Password Policy

• **Access Keys**: access AWS using the CLI or SDK

• **Audit**: IAM Credential Reports & IAM Access Advisor

**EC2 Section – Summary**

• EC2 is one of the most popular of AWS’ offering

• EC2 = Elastic Compute Cloud = Infrastructure as a Service

• It mainly consists in the capability of :

• Renting virtual machines (EC2)

• Storing data on virtual drives (EBS)

• Distributing load across machines (ELB)

• Scaling the services using an auto-scaling group (ASG)

• Knowing EC2 is fundamental to understand how the Cloud works

• **EC2 Instance**: AMI (OS) + Instance Size (CPU + RAM) + Storage +

security groups + EC2 User Data

• **Security Groups**: Firewall attached to the EC2 instance

• **EC2 User Data**: Script launched at the first start of an instance

• **SSH**: start a terminal into our EC2 Instances (port 22)

• **EC2 Instance Role**: link to IAM roles

• **Purchasing Options**: On-Demand, Spot, Reserved (Standard +

Convertible + Scheduled), Dedicated Host, Dedicated Instance