

## Cloud Computing

- On-demand delivery of compute power, database storage, applications and other IT resources

### - 5 characteristics

- On-demand
- Broad Network Access
- Multi-tenancy and resource pooling
- Rapid elasticity and scalability
- Measured service

### - 6 advantages

- Trade CAPEX for OPEX
- Benefit from massive economies of scale
- Stop guessing capacity
- Increase speed and agility
- Stop spending money running and maintaining data centers
- Go global in minutes

## Types

### - IaaS

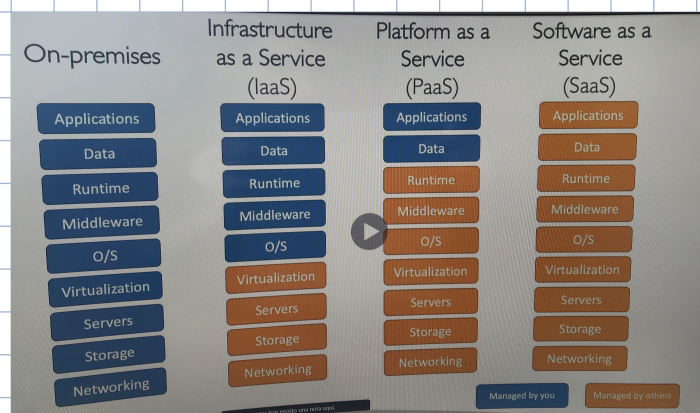
- Provide building blocks
- Network, computers, data storage
- Highest level of flexibility
- Easy parallel with traditional on-premises IT

### - PaaS

- Removes the need for your organization to manage the underlying infrastructure
- Focus on the deployment and management of your applications

### - SaaS

- Complete product that is run and managed by the service provider



- AWS pricing fundamentals (pay as you go pricing model)

- Compute → Pay for compute time

- Storage → Pay for data stored in the cloud

- Data transfer OUT of the Cloud (Data transfer IN) is free