

# **CMPT 733**

# **Introduction to AWS**

---

SLIDES BY:

JIANNAN WANG

<https://www.cs.sfu.ca/~jnwang/>

# Amazon

## From Wikipedia 2006

Article **Talk** Head

### Amazon.com

From Wikipedia, the free encyclopedia

This is an **old revision** of this page  
05:10, 20 March 2006 (→*Customer*  
**permanent link** to this revision, wh  
revision.

(diff) ← Previous revision | Latest revision

**Amazon.com**  
(NASDAQ: [AMZN](#)) is an  
American electronic commerce  
company based in [Seattle](#),  
[Washington](#). It was one of the

## From Wikipedia 2016

### Amazon.com

From Wikipedia, the free encyclopedia

*Further information: [Timeline of Amazon](#)*

**Amazon.com, Inc.** (/ˈæməzɒn/ or /ˈæməzən/), often referred to as simply **Amazon**, is an American [electronic commerce](#) and [cloud computing](#) company with headquarters in [Seattle, Washington](#). It is the

# What is Cloud Computing?

## The buzz word before “Big Data”

- Larry Ellison’s response in 2009 (<https://youtu.be/UOEFXaWHppE?t=7s>)
- Berkeley RADLab’s paper in 2009 (<https://www.youtube.com/watch?v=IJCxqoh5ep4>)

## A technical point of view

- Internet-based computing (i.e., computers attached to network)

## A business-model point of view

- Pay-as-you-go (i.e., rental)



# Three Types of Cloud Computing

---

CourSys

Application + Cloud = **SaaS** (Software as a service)

Database

Platform + Cloud = **PaaS** (Platform as a service)

Servers

Infrastructure + Cloud = **IaaS** (Infrastructure as a service)

# How does AWS fit into the picture?

---

## IaaS

- EC2, S3, ...
- Highlight: EC2 and S3 are two of the **earliest** products in AWS

## PaaS

- Aurora, Redshift, ...
- Highlight: Aurora and Redshift are two of the **fastest** growing products in AWS

## SaaS

- WorkDocs, WorkMail
- Highlight: May not be the main focus of AWS

# Why did AWS succeed?

---

## **Starting from IaaS (i.e., S3 and EC2) is the key**

- Although there are many SaaS and PaaS companies before AWS, in most of the time, people still want to have a full control of computing resources

## **10-100 less expensive than alternatives (2006)**

- Apply the existing \*unused\* resources (that are for Amazon.com) to cloud computing

## **The speed of provisioning is really fast**

- Similar to "1-click buy"

# Summary

---

## Big Picture

- Cloud Computing
- SaaS, PaaS, and IaaS

## AWS

- Putting AWS into the big picture
- Why does AWS succeed?