Introduction to AWS in Higher Ed

Lori Clithero
loricli@amazon.com | 206.227.5054

University of Washington Cloud Day
Cloud democratizes compute and data access
AWS’ History of Innovation

AWS has been continually expanding its services to support virtually any cloud workload, and it now has more than 40 services.

In the last five years, AWS launched 1,203 new features and/or services for a total of over 1,340 since inception in 2006.

April 30, 2015
AWS Import/Export Snowball
How it works

CREATE A JOB
Create a new data transfer job in the AWS Management Console. AWS will ship you one or more Snowball appliances based on the amount of data.

CONNECT THE SNOWBALL
Connect the appliance to your network and set the IP address. Download the Snowball client and job manifest from the Console, run the client to connect and identify data to transfer.

COPY TO THE SNOWBALL
The client will encrypt and copy data to the appliance at high speed. Once complete, the E ink shipping label will automatically update.

AWS WILL MOVE YOUR DATA TO S3
Track the job status via Amazon SNS, text messaging, or directly in the Console.
Global Footprint

Everyday, AWS adds enough new server capacity to support Amazon.com when it was a $7 billion global enterprise.

Over 1 million active customers across 190 countries

900+ government agencies

3,400+ educational institutions

11 regions

29 availability zones

53 edge locations
Business of Education

- Public & Departmental Websites
- Development & Test Environments
- ERP Systems
- Data Analytics
- Student Information System Software
- Disaster Recovery
- Data Center Migrations
- Storage & Backup
UND migrated website and global student and faculty authentication store to AWS with plans to move 80% of its workloads in the next three years.

UND Reports 40% savings on IT operational costs annually.

We are confident in saying that the AWS infrastructure has performed exactly as intended.

Sharif Nijim
Enterprise Application Architect,
University of Notre Dame

University of Maryland University College (UMUC) needed to replace its legacy applications and decided to use AWS to run its new analytics platform as well as several administrative workloads. By using AWS, UMUC improved the performance of its analytics platform by twentyfold and enabled its engineers to focus on building new applications instead of managing IT infrastructure.

Ivy Tech Community College of Indiana is the largest community college in the United States. About 170,000 students register for classes each year; school maintains a student database with about 1.7 million records. School needed to scale existing systems, including operational data store (ODS). By leveraging AWS: Queries complete in as little as three seconds, down from 40 minutes; Licensing and monthly operational costs are about 60 percent less.
Teaching / Learning Solutions

- Lecture Capture
- Learning / Course Management Systems
- Distance Learning
- Massive Open Online Courses (MOOCs)
- Student Lab Environments
- Virtual Desktop / Virtual Application Delivery
- 21st Century Learning & Collaboration
• With more than 300 classes on its website, Coursera needed to track student data, store and deliver videos, and enable students and teachers to interact with each other.

• Using AWS, the company can dynamically handle workload as two million students across 650 schools in 30 countries access the system.

• AWS allows Echo 360 to deliver a reliably solution globally at 30 percent less than what a customer would be able to do on its own.

"We could not scale our business as seamlessly without AWS – and we certainly couldn’t do it on a global basis."

Tony Abate
COO, Echo360
We Invite You to Join AWS Educate

Accelerate Cloud Learning with AWS Credits, Cloud Training, Course Content and Collaboration Tools

Grants for free usage of AWS services

Labs and training on cloud topics and AWS products

Open course content by leading professors and AWS

Communities that share best practices virtually and in person

Not a student or educator? Help extend AWS grants to more students by inviting your network to participate (#awseducate).

Learn more at: www.awseducate.com