IT Summit 2014
Cloud Strategy & AWS@UA

Presenter: Derek Masseth, Sr. Director, Cloud Services
Agenda

- What is Cloud?
- Why Cloud?
- Cloud Economics
- Cloud @UA
- AWS the UA Way...
What is Cloud?
- SaaS
- PaaS
- IaaS
...and what it isn’t!

- Outsourced IT
- Insecure
- Cheap
- Expensive
Cloud Economics
Cloud Economics

- There is always capital cost avoidance
- Most SaaS and PaaS offerings provide dramatic cost savings in CapEx and OpEx
  - Often personnel savings as well
- More difficult to demonstrate in IaaS
  - Eliminate over provision
  - Automation
- True local-cost vs. *aaS cost comparisons are difficult
  - No Data Center to manage
- Pay only for what you used

- The real value is in worker productivity and solution agility anyway!
Why Cloud?

- Increased worker productivity
  - Agility
  - Flexibility
  - Speed of deployment
- Pay only for what you used
- Eliminate capital costs
- Reduced operating costs
- No data center to manage
Our peers are moving...

For the Same Reasons...

- High availability / resiliency
- Speed of deployment
- Scaling
- Innovation
- Direct community/user benefits
- Lower cost
- Security
- Ease of upgrade
- Global performance (latency issues)

Respondents asked to rank items from 1 (most important) to 9 (least). Responses remapped and totaled to create score (e.g. rank of 1 = 9 pts)
"If you want to increase innovation, you have to lower the cost of failure"

Joi Ito
Director, MIT Multimedia Lab
Cloud @UA

Google

HOBSONS

Qualtrics

CatMail
Software as a Service (SaaS)

Platform as a Service (PaaS)

Infrastructure as a Service (IaaS)

On-Premises Solutions
Amazon Web Services cloud servers

- Application Services
- Big data analysis
- Data storage
- Content distribution via the web
- Hosting virtual machines with software pre-configured for a class
- Elastic Storage and Compute
- High Performance Computing
- College website caching/delivery
- Glacier for archive
- Rapid app deploy with ElasticBeanstalk
- SQL databases for Sophos and WSUS
- Big Data with ElasticMapReduce
- ESRI in AWS to support ESRI instruction
- Web hosting and content delivery
- Time to deploy
- Rapid prototyping
- EMR cluster creation
- Dynamic scalability
- Capacity on demand

- Governance
- Networking
- Shared Services
- Guidance for Securing
- Ideally 1 Account per RCU
- Trained Architect
- KFS Account Number
- Business office awareness
- Email Derek (website coming soon)

AWS Deep Dive
Next Wednesday
Nov. 5, 12-2
UITS Innovation Station(CC_303)
- AWS Cloud Structure