ISC Cloud First Program

RETROSPECTIVE

DECEMBER 5, 2017
A long time ago, in a galaxy
Far, far away ....
An edict went out among the
Penn ISC Community
Actually it was more like 18 Months ago....

But it seems a lot longer
How did we get here?

- In the early part of calendar year 2016, Tom Murphy challenged ISC to take a "Moonshot" around the use of Cloud at Penn.
- A small collaborative team was formed to brainstorm and come up with a framework for the effort.
MISSION POSSIBLE

We Can Do This!

“Moving Applications to the Cloud”
A lofty, aspirational goal meant to drive significant change in dramatic fashion.
Your Mission

Should you choose to accept it
Commit to a “cloud-first” strategy for delivery of all new services and cloud-enable 80% of all existing ISC services by March 2018

Move to Blue
IS THAT GUY CRAZY?
Why Cloud First?

- Make it easier to choose Software as a Service options
- Make it easier for partners to work with us
- Re-envision the full technology stack for cloud-native agility
- Model and socialize iterative and transparent value delivery
- Automate or eliminate maintenance work
- Socialize and share what we learn
Program Vision

Vision

Position Penn for the future of IT systems and services by pursuing a “Cloud First” strategy to accelerate speed of delivery and to drive more value through technology to the Penn Community.
Program Objectives

Objectives

- Increase business application agility, scalability, and effectiveness
- Improve resource availability for higher value work
- Take advantage of economies of scale
- Challenge conventional approaches to IT at Penn
- Stay current with where technology is going
- Decrease capital spend over time (TCO)
- Increase availability
- Position Penn for the future
ISC’s Cloud First Program at a glance

James Choate  
*Owner*

Tiffany Hanulec  
*Architecture, Infrastructure & Migration*

Bryan Hopkins  
*Application Design & Tools*

Teresa Leo  
*Communications & Engagement*

Janet Lind  
*Integration*

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**Core Team**

- Application Design & Tools
- Architecture, Infrastructure, & Migration
- Integration
- Communications & Engagement

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**Org Transformation**

**Contracts & Procurement**

**Security**

**Funding & Finance**

**Client Engagement**
Cloud First – By the Numbers FY17

- 250+ website links to cloud resources; also program updates, presentations, team pages, and program documents
- 25+ Presentations (Town Halls, SIGS, ITR, EVP, SUG, ISC etc.)
- 25+ Meetings with clients in Schools and Centers
- 9 Program updates to clients and ISC
- 4 Lunchtime Learnings (average attendance 100)
- 2 IT Staff Convention events (Hackathon, AWS Panel)
- 2 Cloud curriculum tracks (Infrastructure 19 courses and Development 26 courses)
- 2 Newsletter articles
- 2 Slack channels
- 1 Knowledge exchange with clients
What are our operating principles?

- Choose simplicity, speed, and iterative improvement over upfront completeness and strict controls.
- Continuously iterate and re-evaluate decisions; nothing is beyond question.
- Be mindful of increasing technical debt.
- Choose automated solutions over manual ones, but respect the implications to manual process owners.
- Use tools and technologies “off the shelf” in secure ways and as the provider intended.
Accomplishments
Panel Discussion