● Feedback from the first Big Group
● Cloud/DevOps Initiative Updates
● New HUIT Intranet subsite for Cloud/DevOps
● Training Portal Feedback
● AWS Demo
● Thinking for next meeting: Service Teams & DevOps
18 survey responses (of 60 attendees)

<table>
<thead>
<tr>
<th>Rating Areas</th>
<th>Rating (1-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Big Group Meeting</td>
<td>3.89</td>
</tr>
<tr>
<td>-General Overview and Intro</td>
<td>4.00</td>
</tr>
<tr>
<td>-Training Track Slides and Website Demo</td>
<td>3.94</td>
</tr>
<tr>
<td>-Breakout Sessions and Discussion</td>
<td>3.82</td>
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</tbody>
</table>

Q: Will you attend the next big group? **18/18 said yes**
Q: Would you recommend attending the Big Group to your colleagues who did not attend? **17/18 said yes**
<table>
<thead>
<tr>
<th>Feedback</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>-Need a bigger room</td>
<td>Lecture vs. Seminar Room? HKS?</td>
</tr>
<tr>
<td>-The breakout sessions were loud and were difficult to focus.</td>
<td></td>
</tr>
<tr>
<td>The breakout groups were very effective for both meeting people within HUIT and hearing ideas coming from multiple angles and backgrounds.</td>
<td></td>
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<tr>
<td>I think a lot of people are still confused on what we are trying to accomplish, and why. After that's established, it's easier to tie the training to the how we will accomplish the what.</td>
<td>What can we do better?</td>
</tr>
<tr>
<td>I think we need to have more and more readings, web sessions, meetings, discussions among teams...</td>
<td>Engagement is growing; HUIT Coffee Hours; new website</td>
</tr>
<tr>
<td>-How can we learn more about what Dev-Ops really is? What does Dev-Ops look like for HUIT, and how is it different from how we work today? -...what will our Service Team's actually be</td>
<td>Start to think about for next big group</td>
</tr>
<tr>
<td>The list of applications being migrated by date is critical</td>
<td>One of our work streams</td>
</tr>
</tbody>
</table>
General Updates

- Developing internal website (demo next!)
- Continued work on training portal
- Application inventory
  - >600 apps!
  - Organizing and classifying to align to waves
  - Conversations with application teams will be coming
- New roles to post: DevOps and Cloud Engineers/Architects
- Continuous Delivery Platform
  - Coordination across HUIT practices and projects
  - Relation to Release Management, Audit, etc
  - Products and Frameworks
- New Pilots
  - RO Winter Break
  - Oracle OID
  - OBIEE
  - vCloud Air
- New Cloud/DevOps Project: ACE
- Conferences
  - DevOps Enterprise Summit
  - AWS ReInvent
New Cloud/DevOps Website

http://intranet.huit.harvard.edu/clouddevops-updates

HUIT Intranet

HOME   Services▼   People   Policies, Forms & Resources▼   News & Events   About

HOME /

Cloud/DevOps Updates

Welcome!

This subsite is dedicated to keeping the HUIT community updated on the latest developments and progress from the HUIT Cloud/DevOps group. Our group is made up of experts from across HUIT who...
Training Portal Updates

- Content Added
- Feedback?
AWS Demo: Drupal Multi-AZ Website

Architectural Diagram

New Role – Cloud Architects

Educational Tracks

- DevOps Track
- CDP Platform Track
- Cloud VPC Track
- COPS Track

1. Auto-Scaling with Scaling Policies
2. CloudWatch/SNS Alarm
3. Load Balancer / Single Instance
4. EC2 Servers
   M1.small servers – 1 CPU, 1.7 G Memory
   - AZ – Availability Zone
     (North Virginia) us-east-1a & 1d
5. RDS Database
6. Service Health Dashboard

VPC – Virtual Private Cloud

S3 Bucket: Static Assets

Users

CloudFront CDN

Admin Access

AZ 1

AZ 2

AZ 3
Q: How is AWS able to provide autoscaling?
A: MASSIVE SCALE

- 11 Regions Worldwide
  - Minimum 2 Availability Zones (AZs)/region
  - 28 Total AZs
    - Each AZ is 1-5 Data Centers
      - Each Data Center is 50,000 - 80,000 physical servers
    - Estimate: 2,000,000-5,000,000 servers!

“Every day, AWS adds enough new server capacity to support all of Amazon’s global infrastructure when it was $7B annual revenue enterprise”

References: AWS Innovation at Scale (SPOT301, AWS ReInvent 2014, James Hamilton)
www.slideshare.net/AmazonWebServices/spot301-aws-innovation-at-scale-aws-reinvent-2014
www.youtube.com/watch?v=JIQETrFC_SQ
Key Question: What do Service Teams need to look like in a cloud & DevOps world?

- Possible team structures
- Possible roles
- Opportunities & challenges in a new structure
- Where do **you** want to fit?
Tuesday December 16th
10:30-12:00
Lamont Forum Room

Topic Ideas?
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