ITSAC-I Agenda 2015 Dec 14
3:00-4:00 HLB 331
http://oit.ncsu.edu/it-governance-nc-state/itsac-sc-infrastructure

**Members:** Scott Callicutt (chair), Dan Deter (chair-elect), Debbie Carraway (secretary), Charles Cline, Eric Sills, Greg James, Jeff Webster, Dan Deter, Mike Kastellec, Daniel Henninger, Donna Barrett, Chris Eichman, Alan Galloway

Present: Mike Kastellec, Scott Callicutt, Greg James, Alan Galloway, Donna Barrett, Jeff Webster, Dan Deter, Debbie Carraway, Daniel Henninger, Charles Cline
Absent: Eric Sills, Chris Eichman
Guests: Bob Bagby (LIB)

1. **ITSAC-I - OIT changes and what may need to be updated.**
   a. Divide ISO slots between Comtech and Shared Services - Greg James representing ComTech, Debbie Carraway - Shared Services, plus the existing Shared Services slot.

2. **RLSC - position vacancy**
   a. Chris Bowen (Libraries) recommendation

3. **Other groups needing to report?**
   - **Data Center Facilities Working Group**
     - Meeting with architect re-scheduled for mid Jan re: DC3
     - Trying to get idea about cost to run fiber
     - Discussions anticipated with new CFO in January. Working on providing cost per square foot.
     - Physical location - there are issues (esp. with future expansion) with the proposed location at the Vet School, still under consideration
   
   - **Communication Technologies Advisory Group**
     - Blue Lights - now have a cellular blue light at McKimmon to avoid expense of resolving land line problem. Will install 2 solar power ones in bus lots below McKimmon (have phone line but not power).

   - **Active Directory Technical Working Group**
     - Service Level Statement
       [https://docs.google.com/document/d/1ac6eAjicfddHbMBFPDxl64yQooEwaavmMvoXrXHAcgg/](https://docs.google.com/document/d/1ac6eAjicfddHbMBFPDxl64yQooEwaavmMvoXrXHAcgg/)

   - **Identity Management Working Group**
Next meeting in January

- Realm Linux Service Committee
  - Pushing forward on getting work on current Realm as CSI works on new infrastructure, will come together at the end

- Storage and File Services Working Group
  - Trying to get up with Eric to talk about research funding/data storage

- Web Services Working Group Not yet formed.

4. Library IT infrastructure - Mike Kastellec & Bob Bagby

- Libraries IT has 4 units - new IT head, Jill Sexton. Mike and Emily are now out of interim status. Emily - one group does development, one high tech spaces. Mike - enterprise operations (system administration), technology services (service desk, desktop support)
- Currently using 40 kw out of 100, could expand to 225
- 5 libraries in different buildings, all server infrastructure is at Hunt. Have mostly empty server room at DH Hill, used for tape backup now, future plans may change things
- Hunt - 16 racks, hot aisle containment. Half IT, half AV infrastructure
- From BDF, Cisco 4500 with 10 GB link to BDF… 10 GB to game lab, teaching/visualization studio. A/V is a special network. 10 GB to sound/video editing rooms, green screen room, have dedicated links down. 10 GB to Cisco UCS running virtual servers/desktops. ~400 virtual desktops (50% of staff/patron desktops, rest is Mac desktop). A/V is on a separate physical network.
- 3 main storage systems: Dell Compellant (production for all servers, main file tiered storage), Dell MBS for archival, each 80 TB and expandable. Using one of two Isolons (OIT’s) (HPC and display servers). Were gifts from EMC. Have 3 X200 nodes. Maintenance now expensive, will be replaced with a Dell MBS array. Happy with Compellant, support is ‘top-notch.’ Expansion smooth.
  - DELTA looking at moving to Compellant
  - Compellant is a 3-tier system. Lib using write intensive SSD, 15K, 7K. Currently may be write intensive SSD, read intensive SSD, 15Ks.
  - Dell checks logs weekly to proactively detect problems e.g., bad disk
- Backing up with 2 systems. PHD virtialaul backs up to OIT Isolon stack, backing up also to DH Hill library
- 5 Dell 720s for 1/2 of VDI (other half is UCS,) haven’t had success running GPU-enabled VDI
- Dell Blade systems (3) for HPC/render
- Render service has been up and running for a while, low usage, mostly COD, available for use, piloting with HPC, looking for other kinds of customers
• Libraries IT is a full stop operation for IT. Consume networking, Casper, other services, but provide many services. Front-end many services on campus. Digital Libraries Initiatives does a lot of web apps, electronic thesis, dissertations. User Experience dept does patron-facing tech, media production rooms, tech lending, web team administers content for Drupal web site.

Catalog, virtual library materials are on VMs within core IT groups. Have 50 physical servers, mostly used in HPC or rendering. 150-200 virtual servers. Chris administers most of machines that are Linux under Discovery Systems & Applications group - administer apps for e-reserves, ILS.

NVidia Teslas - around 60 Teslas GPUs to help with rendering and HPC. Cutting edge, just starting to take advantage of GPUs, similarly with HPC programs.

Some GPU programming is automatic (e.g., Mathematica), users have the ability to write code.

5. Where do we go from here - Scott Callicutt
   a. Goals
      i. Think about goals for next year and email to Scott. SMART goals, specific, measurable, achievable, realistic and time-bound.
   b. Standards
      i. Should we come up with standards groups should look for basics - how to format notes, other more substantive standards?
   c. etc.

Next meeting
   - Dan can do DELTA in Feb or April
   - Vet School, GWS/DC3, Eric for next time, AWS/Azure update

Action Items
   1. Send Chris Bowen recommendation to CITD (Scott)
   2. Send SMART goals to Scott (group)

Decisions (running list)
   ● 3/9/15: Recommend that enterprise infrastructure be funded centrally.
   ● 1/23/15: All 2-year terms for ITSAC-I members (including subgroup chairs) expire Oct 1, 2015. New elections will be held before that date.
   ● 1/23/15: The chair-elect position for ITSAC-I will be selected after the roster of members is complete