CSCF Objectives and Milestones

December 2015

Hardware Acquisition, Deployment, and Lifecycle Management

Plan, purchase, configure, deploy and manage lifecycle of equipment for offices, labs, and server rooms.

- <u>Objective</u>: Produce annual equipment budget proposal for SCS.

  - W16 (INF): FY16 CSCF budget request to the School

  - F15 (INF): draft of FY16 budget   *(mostly done – pricing updates needed)*

- <u>Objective</u>: annual hardware purchasing based on CSCF budget and evergreening priorities

  - W16 (INF): finish FY15 purchasing by UW's FY15 purchasing deadline

  - F15 (INF): allocate remaining FY15 budget to evergreening projects *(not done)*

- <u>Objective</u>: accurate inventory database

  - F15 (INF): populate inventory data from salt-grain/ONA *(status??)*

- <u>Objective</u>: CSCF-standard equipment configurations and images, updated on an annual cycle

  - W16 (INF): F16 image ready for use on May hardware deployments

  - W16 (INF): 2016 desktop, laptop, and server hardware configurations finalized

  - F15 (INF): allocate remaining FY 2015/2016 budget for evergreening projects *(not done)*

  - F15 (INF): patch current workstation image for W16 deployments *(done)*

  - F15 (INF): tentative 2016 hardware configuration *(grad laptop (add touchscreen) and workstation configs determined, server config partially determined)*

  - F15 (INF): progress on adding drivers for 2016 hardware to current images (fallback image for S16) *(progress made)*

On-Line Services: Database Management

Backend databse services to support other on-line services and School operations.

- <u>Objective</u>: Deploy 3-node highly available MySQL cluster to serve non-teaching applications, including ST, inventory, ofis.

  - W16 (INF): MySQL cluster in production and ready to accept data and host applications

- ○ W16 (TOP/RSG): port non-teaching applications to new MySQL teaching cluster

- ○ F15 (INF): general use MySQL cluster up and running, with ubikey application running off of it *(not done)*

- ○ F15 (INF): automated build of an LXC MySQL base system *(progress, not done)*

- • <u>Objective:</u> Determine how to support Marmoset and other MySQL applications currently running in the teaching environment.

On-Line Services: Linux Computing Environments

Linux computing environment(s) for teaching and for faculty/staff/grad general use.

- • <u>Objective</u>: track Ubuntu LTS releases in teaching and general environments

- ○ W16 (INF): ubuntu14.04.student.cs in production (Jan'16)

- ○ W16 (INF): ubuntu14.04.cs in production (Jan'16)

- ○ W16 (INF): ubuntu14.04.cs is default for linux.cs (Feb'16)

- ○ W16 (INF/TOP): ubuntu14.04.student.cs is default for linux.student.cs

- ○ W16 (TOP): transition teaching and course/specific software to 14.04

- ○ F15 (INF): Upgrade linux.cs and linux.student.cs servers to Ubuntu 14.04 *(not finished, but 6 teaching, 2 general system are on-line (except maple))*

On-Line Services: File Storage

File storage for students, staff, and faculty.

- • <u>Objective</u>: highly-available network file service with limited capacity (4GB/undergrad, 20GB/grad, 50GB/faculty)

- • <u>Objective</u>: investigate future alternatives for current file service

- ○ W16 (INF/RSG): go/no-go decision on owncloud/file service project

- ○ F15 (INF): some progress towards a proposal

Teaching Labs

Management of teaching labs in support of academic programs.

- • <u>Objective</u>: database of usage statistics for all teaching labs

- ○ W16 (INF): accurate usage stats for thin client labs (MC 3022, MC 2061)

- F15 (INF): usage statistics for thin client labs (MC 3022, MC 2061) *(progress, not finished)*
- Objective: evergreen Lab computing equipment
  - W16 (INF/TOP): finish evergreening of MC3022 by replacing 5 missing work sites (Jan'16)
  - W16 (INF/TOP): evergreening of Mac lab
  - F15 (INF): finish MC3022 update *(not finished)*
- Objective: ensure that lab equipment is functional and works well
  - W16 (TOP): diagnose, fix if possible, very slow login and poor performance in labs
  - W16 (TOP): establish a process for imaging Macs (in offices and meeting rooms, as well as in the labs) and for switching from image to image.

Meeting Room Management

Management of A/V in CS meeting rooms.

- W16 (TOP): update signs, labels and incident management procedures, and establish procedures for responding to problems.

Research Services

Custom services in support of research activities.

- Objective: timely billing of researchers for research services
  - W16 (RSG): F15 and W16 bills out (early Feb'16)
- Objective: "Paper" cluster – research infrastructure from surplus equipment, operated on a cost-recovery basis.
  - W16 (RSG): rack the surplus hardware we have
- Objective: SCS research computing systems and grad/faculty desktops behind UW-mandated firewall
  - W16 (RSG): finish research group consultations and have client net behind the firewall

SCS Software Projects: Exam Management System (EMS)

System to support exam seating, printing, and marking.

- Objective: ensure reliable system operation, on-going feature enhancement
  - W16 (RSG): modify exam printing process to embed fonts to improve workflow with Media Services

- ○ W16 (RSG): broaden EMS support base by establishing non-Isaac point-of-contact for EMS
- ○ W16 (RSG): modify EMS to handle multi-version exams

SCS Software Projects: Grad Visit Day System

System to support annual Grad Visit Day, including scheduling

- Objective: ensure reliable system operation, customization and enhancements
  - ○ W16 (RSG): updates for W16 visit day (Feb'16)

SCS Software Projects: TA Evaluation System

Proposed system to support TA Evaluation workflow for the Grad Office.

- Objective: design, develop, and initial deployment
  - ○ W16 (RSG): create project plan for this system

SCS Software Projects: OAT

Backend database supporting advising tools, UW Portal, EMS, and other applications.

- Objective: ensure reliable system operation, enhance functionality
  - ○ W16 (RSG): overhaul data import to use new data source
  - ○ W16 (RSG): add admissions data

SCS Software Projects: OGSAS

System to support graduate admissions workflow.

- Objective: ensure reliable system operation, on-going feature enhancement
  - ○ W16 (RSG): implement modifications requested by Assoc. Director Grad Studies
- Objective: port OGSAS to OAT backend
  - ○ W16 (RSG): port OGSAS to OAT

CSCF-Internal Systems: Inventory

System to track equipment inventory.

- Objective: ensure reliable operation, feature enhancements
  - ○ W16 (RSG): version 3.5.1 bug fixes

○ W16 (RSG): explore machine room mapping (where in the machine room is this server?)

CSCF-Internal Systems: Research Subscription System

System to manage research support subscriptions, track time, generate bills

- Objective: ensure reliable operation, feature enhancements

  ○ W16 (RSG): bug fixes

CSCF-Internal Systems: Request Tracking

System to track research support requests.

- Objective: stable, adequately functional system for request tracking

  ○ W16 (RSG): make a decision about the future of current ST system

Miscellaneous

Projects that do not fit under other categories, or one-time tasks

- Objective: CSCF staff retreat

  ○ W16 (RSG/TOP/INF): hold CSCF staff retreat, generate recomendations