CSCF Services

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Manager, Research Support

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DC 2607, x32214

Slides available on:

https://cs.uwaterloo.ca/cscf/grad/

CSCF Structure

- 3 groups
 - Infrastructure provides servers, network infrastructure, Active Directory, purchases all computing equipment for the School
 - Manager: Dave Gawley, plus 4 staff
 - Teaching and Administration: supports all undergraduate teaching labs, plus administrative staff, the Instructional Support Group and School meeting rooms and audiovisual services
 - Manager: Omar Nafees, plus 6 staff
 - Research Support: provides computing support for Faculty, Grads, PostDocs and Research Visitors
 - Manager: Lawrence Folland (me), Mike Gore, Ronaldo Garcia, Gordon Boerke, Lori Paniak
- https://cs.uwaterloo.ca/cscf/about/personnel-pictures

Workstations when you arrive

- Research grads
 - Supervisor has choice of:
 - Thin Client (no admin access)
 - PC desktop Windows / Ubuntu
 - PC Laptop Windows / Ubuntu
 - Mac Mini
 - Provide equipment themselves
- Course Masters
 - Shared room iMacs / PCs
 - Shared Room (DC 3335) Screen/Keyboard/Mouse for own laptops
- https://cs.uwaterloo.ca/cscf/faculty/gradworkstation

Research Support

- Supervisors "subscribe" to support
- Pay a fixed fee per term based on desired quantity of support
- Provides for a predictable fee and level of support
- Each group/faculty assigned a "Point of Contact" within the Research Support Group – that's your "go to" person
- Other RSG staff will also help as needed
- Staff are familiar with Windows, Linux and Mac to varying degrees plus most system administration tasks, cluster management and software installation
- Speak to your PoC about software installations, OS upgrades, borrowing hardware, eg: PCs for experiments, extra screens, etc.

CSCF Help Desk

- We have a Help Desk who can handle certain tasks
 - Setting passwords
 - Loan of equipment cables, display adapters, external drive bays, keyboards, mice
 - Assist with wireless issues
 - Take a problem report and get it assigned to appropriate staff
 - x31100, DC 2608 or <u>cscfhelp@uwaterloo.ca</u>
 - https://cs.uwaterloo.ca/cscf/about/cscf-help-desk

Compute Resources

- School Linux servers
 - linux.cs.uwaterloo.ca (Ubuntu 16.04)
 - ubuntu1404.cs.uwaterloo.ca (Ubuntu 14.04)
 - linux.student.cs.uwaterloo.ca (for course work, Ubuntu 14.04)
- School Windows servers
 - windows.cs.uwaterloo.ca (available via RDP)
 - windows.student.cs.uwaterloo.ca
- https://cs.uwaterloo.ca/cscf/general/hosts

File Storage

- Netapp 20GB per student
 - Home directory under linux.cs
 - P: drive under Windows.cs and Windows workstations
 - Smb://smb-files.cs.uwaterloo.ca
 - ftp.cs.uwaterloo.ca
- Backup
 - NetApp files are backed up daily
 - Snapshots: cd .snapshot in any directory, files stored by hour, day, week
 - https://cs.uwaterloo.ca/cscf/howto/snap

NextCloud (DropBox-like service)

- Locally stored
- Up to 500GB per grad student
- Access at vault.cs.uwaterloo.ca
- Download NextCloud clients
- Documentation: https://cs.uwaterloo.ca/twiki/view/CF/Vault

Web pages

www.cs.uwaterloo.ca/~youruserid

- Files in NetApp folder under "~/public_html"
- Create / update index.html
- Make sure to assign "world read" to your web files
 - %chmod o+r index.html

Email

- youruserid@uwaterloo.ca
 - -> redirect wherever you prefer
 - Your own account (Gmail, Hotmail, etc)
 - Mailservices.uwaterloo.ca / mywaterloo.ca
 - Connect.uwaterloo.ca (Microsoft Exchange Campus Email/Calendar tool)
 - You can request a Connect account if you don't have one
 - You can also configure a "friendly" email address, eg:
 - Lawrence.Folland@uwaterloo.ca
 - Do that in http://watiam.uwaterloo.ca
 - User Access
 - Update Profile

Printing

- Can print to any of our printers listed on our CUPS server:
 - http://print.cs.uwaterloo.ca:631/printers/
- Setup notes:
 - https://cs.uwaterloo.ca/twiki/view/CF/WindowsPrinting
 - https://cs.uwaterloo.ca/twiki/view/CF/LinuxPrinting
 - https://cs.uwaterloo.ca/twiki/view/CF/MacPrinting
- Note: printing is tracked but no longer quota limited

• https://cs.uwaterloo.ca/cscf/printing/environments/general-computing

High Performance Computing (SCS)

- Faculty-provided servers/clusters
 - Syn cluster Salem/Wong/Brecht (Data Systems Group)
 - Ripple Ian Goldberg (CrySP)
 - CloudNetwork Raouf Boutaba
 - Cabernet Justin Wan (SciCom)
 - Chardonnay Justin Wan (SciCom)
 - M160 Ming Li (Bioinformatics)
 - Daytona Poupart/Hoey/Lizotte (Health Informatics)
 - Husky Ihab Ilyas (DB)
 - Novo Bin Ma (Bioinformatics)
 - Various other servers
- https://cs.uwaterloo.ca/twiki/view/CF/HighPerformanceComputingResour ces

HPC - SHARCnet

- SHARCnet provides batch computing for large numbers of cores / memory
- 1 TB storage
- Requires a SHARCnet account based on faculty sponsorship (your supervisor needs to have an account to sponsor yours)
- There is no cost to use these resources
- Systems: https://www.sharcnet.ca/my/systems/index

https://cs.uwaterloo.ca/twiki/view/CF/HPC#SHARCnet

Software

- Windows can be put on any Research / Teaching machine
- MS Office campus license
- Visual Studio free Academic license
- VMWare Math license covers vSphere Enterprise Plus, vCenter, vCloud Director, vCloud Suite, Workstation, Fusion, etc. – for research / teaching machines
- Maple free for UW users
- MatLab \$75/calendar year speak to your supervisor
- Others talk to your Point of Contact

Questions? Feedback?

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