

CSCF Services

Lawrence Folland

Manager, Research Support

lfolland@uwaterloo.ca

DC 2607, x32214

Slides available on:

<https://cs.uwaterloo.ca/cscf/information-graduate-students>

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

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 rooms (DC 3335 and DC 2583A) – iMacs / PCs
- <https://cs.uwaterloo.ca/cscf/about/policies/graduate-student-workstation-options>

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 cscfhelp@uwaterloo.ca
- <https://cs.uwaterloo.ca/cscf/getting-help/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`

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](ftp://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/old/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
 - Grad students automatically given a Connect.uwaterloo.ca account (Microsoft Exchange – Campus Email/Calendar tool)
 - -> can redirect wherever you prefer
 - Your own account (Gmail, Hotmail, etc)
- You can also configure a “friendly” email address, eg:
 - Lawrence.Folland@uwaterloo.ca
 - Do that in <http://watiam.uwaterloo.ca>
 - Manage Email Settings

Printing

- Can print to any of our printers listed on our CUPS server:
 - <http://print.cs.uwaterloo.ca:631/printers/>
 - Or [\\printers.cs.uwaterloo.ca](http://printers.cs.uwaterloo.ca) (in Windows)
 - (login with your CS-GENERAL\userid credentials)
- 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/services/printing>

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/HighPerformanceComputingResources>

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?

Lawrence Folland

lfolland@uwaterloo.ca

519-888-4567 x32214

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