CSIT Cheatsheet_{v3.0}

Full documentation: <u>scicomp.aalto.fi</u> / wiki: <u>do.cs.aalto.fi</u> scicomp.aalto.fi/aalto/welcomeresearchers/

Who?

- CS-IT: Handles CS workstations, CS data, technical procurement, loans of IT supplies. We are here to help you and experts in facilitating research.
 - A243 physical location, <u>guru@cs.aalto.fi</u> support address, instruction sites at top. <u>wiki.cs.aalto.fi</u>. Chat: <u>scicomp.zulip.cs.aalto.fi/</u>
- Aalto Scientific Computing: Triton (Aalto HPC cluster) and scientific software
 - o <u>scicomp.aalto.fi/triton/issues</u> issue tracker. Chat: see CS above.
 - o <u>scicomp@aalto.fi</u> account requests
 - scicomp.aalto.fi/triton/ instructions + Scientific computing guides.
- Aalto IT (ITS): Handles Aalto accounts and all basic infrastructure
 - o <u>servicedesk@aalto.fi</u> ITS support address. Non-CS matters.
 - service desks: Main (Otakaari 1M) U133a, W-Th ~08:30-11, 12-14;
 Väre R101, M-T ~8:30-11 and 12-15 (check for updates)
 - o <u>it.aalto.fi</u>
 - Aalto Gitlab: <u>version.aalto.fi</u> (If account blocked log in using username@aalto.fi and aalto password. This should unblock HAKA login.)
- CSC: Finland's national computing center, <u>research.csc.fi</u>

Accounts and networks info: it.aalto.fi

- Accounts are managed by Aalto ITS, not CS-IT.
- Activation/password reset: <u>password.aalto.fi</u> (w. online bank ID) or srv desks.
- Wifi: aalto open: open network, everyone. eduroam: personal computers, access to protected resources. aalto=for Aalto-managed systems.
- <u>lapa.aalto.fi</u>: CS personal info management.
- Accounts can be extended once you leave, ask supervisor/HR for a visitor contract.

Scientific Computing info: scicomp.aalto.fi

- Triton (see above) has 2PB storage, ~10000 CPUs, GPUs, large mem, scientific software. Free, uses Aalto account and Aalto data, scicomp.aalto.fi/triton/
- We have various scientific software on workstations.
- www.aalto.fi/en/services/it-services-for-research List of common Aalto services.
- Additional computational resources can be found from CSC. Link above.

Data management info: scicomp → Aalto/Data*, Data/*

- Aalto provides many free, central, secure, backed-up storage locations. **Avoid local storage when you can!**
- Data should be stored in project directories, not home directories.
- Three main locations: project (backed up), scratch (large, no backups), archive.
- Senior staff can request new projects, see scicomp.aalto.fi. Data can be shared with any number of people.
- Use Aalto Git for version control for code, papers, etc.

Workstations and laptops

- Most are Aalto managed: login with Aalto account, passwords kept in sync. Must log in once on Aalto network before it can work.
- For heavy computation, we usually provide a powerful computer and most work is done on Triton

Linux workstations and laptops *info: scicomp* → *Aalto/Linux workstations*

- Primary user can install own Ubuntu packages. Use Software Center or:
 - o search: apt-cache search install: aptdcon --install PACKAGE-NAME
- Module system: additional software, module spider SEARCHTERM and module load NAME. (desktops only). E.g. Python/tensorflow/etc ("anaconda"), Matlab, etc.
- Network drives (CS, Triton) available at "/m/cs/*".
- NO local data backups: Use network drives instead. Local data lost on reinstall.

Mac laptops info: scicomp.aalto.fi→ Aalto/Mac

- Aalto software: Managed Software Center
- Local admin rights for 15 min: Managed Software Center, install and run the "Privileges" app.
- Software installation: run Privileges app (see above) and you can install dmg files
- For advanced software, install brew. See scicomp instructions.

Windows laptops info: $scicomp.aalto.fi \rightarrow Aalto/Windows$

- Aalto software can be installed from online "Self-service portal". See scicomp.
- To enable admin rights, install the "Enable admin rights for primary user" application from "Start Software installation".. See scicomp instructions.

Remote access info: scicomp.aalto.fi: Aalto/Remote access

- magi.cs.aalto.fi: CS shell server, all filesystems mounted, can access workstations.
- {kosh,lyta}.aalto.fi all Aalto people, general shell servers. taltta: staff
- vdi.aalto.fi Virtual desktop environment, Windows/Linux
- VPN: see Aalto IT instructions. Gets you on Aalto net.
- Aalto nets are: eduroam, workstation net, aalto wifi with Aalto laptop (130.233.*)

Printing info: wiki: https://wiki.aalto.fi/display/CSdept/Printing

- Secure Print Aalto account / HSL card. Various locations, check wiki.
- Mobileprint: mail to mobileprint@aalto.fi from Aalto email only, pick up printer.
- Scanning/copying at printers, poster printing available for CS (see wiki)

Common software info: wiki: IT/Printing (not on scicomp yet)

- Cloud: Overleaf, Adobe,
- Aalto hosted: Chat (Zulip), Jupyter (jupyter.cs),