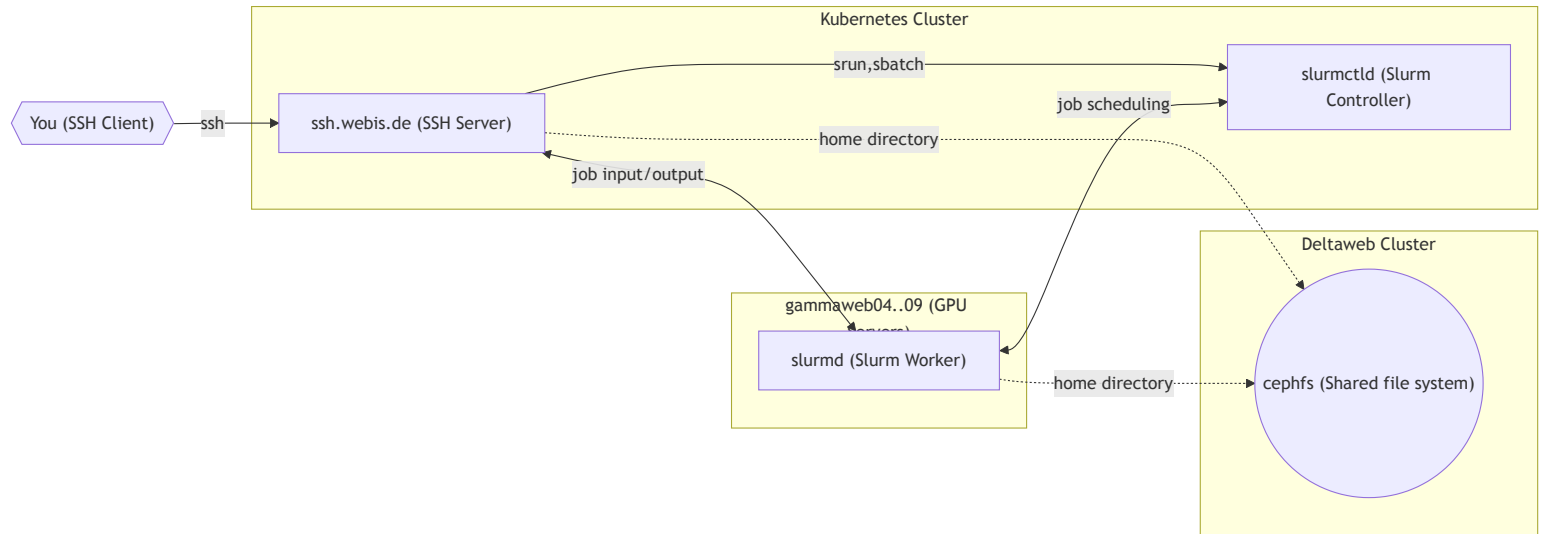# Hands-On Introduction to Slurm on the Webis GPU Cluster

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Background Information

Cluster components:

- ❑ SSH gateway (`ssh.webis.de`):
  Runs an SSH server that you can connect to; do not run any jobs directly on this node.

- ❑ Slurm worker (`gammawebXX`):
  Accepts jobs scheduled from the SSH gateway.

❏ Worker-local file system (`/var/tmp/$USER`):
Plenty of fast temporary storage accessible from your Slurm worker. Will be available as long as your job runs.

❏ Shared file system CephFS (including the home directory
`/mnt/ceph/storage/data-tmp/current/$USER`):
Slow persistent but temporary storage. Can be used to transfer data between jobs and into the cluster (via the SSH gateway).

Finding Help

1. Webis FAQ [faq.webis.de]

2. Webis Knowledge Base [kb.webis.de]

3. (As applicable) Google

4. Discord (including the error log)

Getting Started

- ❏ Set up and connect to the VPN [kb.webis.de]

- ❏ Generate an SSH key pair [faq.webis.de]

- ❏ Enable and configure SSH authentication in GitLab [faq.webis.de]

- ❏ (Optional) Configure `/.ssh/config`

- ❏ Read and understand the Slurm user guide [kb.webis.de]

- ❏ Run a Slurm job on gammaweb

PyCharm

❑ Synchronizing files between a local repository and the CephFS home directory [jetbrains.com]