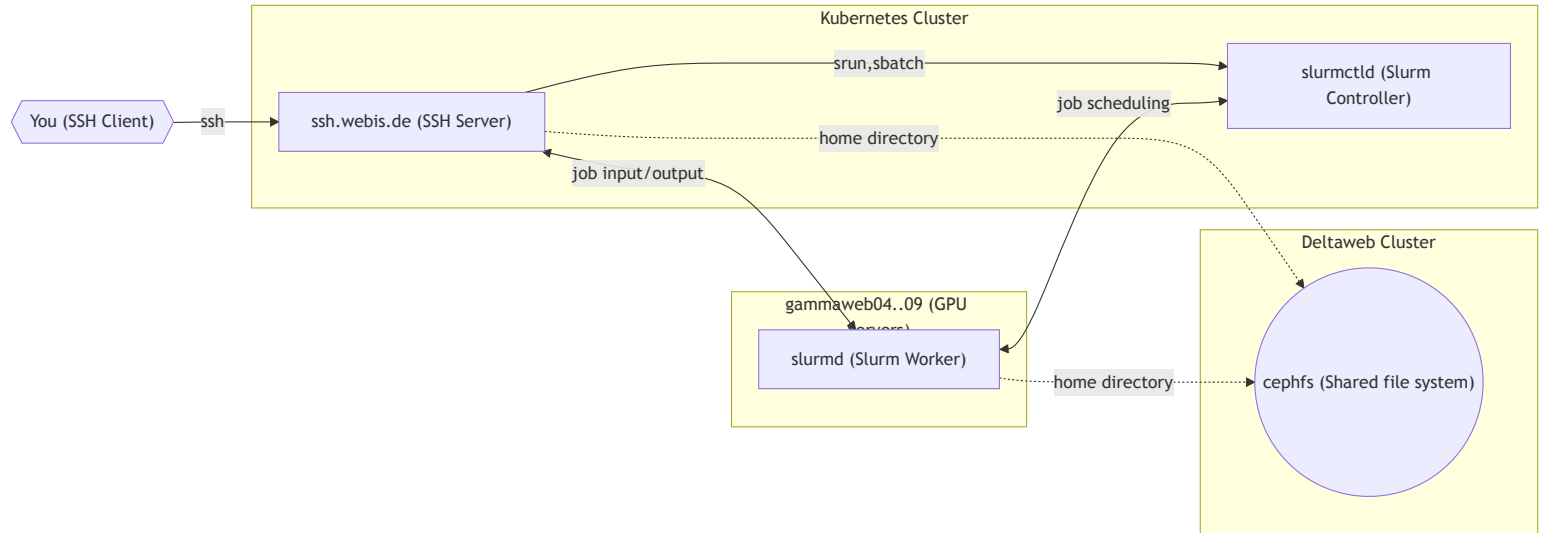


Hands-On Introduction to Slurm on the Webis GPU Cluster

Content

- ❑ Background Information
- ❑ Finding Help
- ❑ Getting Started with the Cluster

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 (`gamma04..09`):**
Accepts jobs scheduled from the SSH gateway through [Slurm](#) [\[Getting Started\]](#)
- ❑ **Worker-local file system (`/var/tmp/$USER`):**
Fast temporary storage accessible from your Slurm job. Available until your job ends.
- ❑ **Shared file system CephFS (contains homes `/mnt/ceph/storage/data-tmp/current/$USER`):**
Slow persistent storage. Used to transfer data between jobs and into the cluster (via the SSH gateway).

Finding Help

Where to find help (in order)

1. Webis FAQ [faq.webis.de]
2. Webis Knowledge Base [kb.webis.de]
3. (As applicable) Google
4. Your Supervisor
5. Discord

A good issue report must include

- ❑ the script you want to run,
- ❑ the error log,
- ❑ and other information one may need to replicate what you were trying to do

Getting Started

- ❑ Set up and connect to the VPN [\[kb.webis.de\]](https://kb.webis.de)
- ❑ Generate an SSH key pair [\[faq.webis.de\]](https://faq.webis.de)
- ❑ Configure the SSH public key to use in GitLab [\[faq.webis.de\]](https://faq.webis.de)
- ❑ (Optional) Configure `~/.ssh/config` on your local machine

```
Host ssh.webis.de
    Host ssh.webis.de
    HostName ssh.webis.de
    User <your username>
    IdentityFile <path-to-your-private-key>
```

- ❑ Read and understand the Slurm user guide [\[kb.webis.de\]](https://kb.webis.de)
- ❑ Run a Slurm job on gammaweb

Example:

```
srun \  
  --mem=64gb \  
  --gres=gpu:2g.10gb:1 \  
  --container-image=<docker image> \  
  --container-writable \  
  --container-remap-root \  
  --pty bash
```

PyCharm

- Synchronizing files between a local repository and the CephFS home directory [[jetbrains.com](https://www.jetbrains.com)]