1. [How to connect](#)
   The IP is now [snellius.surf.nl](#) rather than [lisa.surfsara.nl](#).
   So, connect using `ssh <user>@snellius.surf.nl`.

   Additionally, Snellius only allows traffic from UvA IPs by default. As a result, you need to either access it from the UvA/eduroam/Amsterdam Science Park WiFi, or use the [UvA VPN](#). If you are having issues with that, you can try connecting to the "doornode" login node, by using `ssh <user>@doornode.surfsara.nl`. If that also doesn't work, and you have a static IP, we can ask the SURF team to whitelist it, but we should only resort to this as a very last option.

2. [Modules](#)
   Although `module load 2021` / `module load Anaconda3/2021.05` might work, it is recommended to use the 2022 modules instead as they are now fully supported. Thus, use `module load 2022` and `module load Anaconda3/2022.05` in your SLURM scripts.

3. [SLURM GPU partition](#)
   Snellius has a single partition with GPU access, which is "gpu". Additionally, you can only request increments of 1/4 of a node, and not just any arbitrary choice of CPU cores / RAM / GPUs. Since a full node has 72 CPU cores, 480GB RAM, and 4 NVIDIA A100 GPUs (40GB VRAM), the minimum allocation is 18 CPU cores, 120GB RAM, and 1 GPU. This should be sufficient for your projects, so avoid requesting more to keep your budget consumption low. An example job script would be:
   ```
   #!/bin/bash
   #SBATCH --job-name=ATCSJob
   #SBATCH --partition=gpu
   #SBATCH --gres=gpu:1
   #SBATCH --cpus-per-task=18
   #SBATCH --mem=120gb
   #SBATCH --time=01:00:00
   #SBATCH --output=slurm_output_%A.out

   module purge
   module load 2022
   module load Anaconda3/2022.05
   source activate <your environment name>

   cd $HOME/<your project directory>
   python -u <your python file>
   ```

4. No GPU login node
   As opposed to Lisa, Snellius does not have a GPU login node. Consequently, all operations that require a GPU must be done through the SLURM scheduler, either by srun or sbatch. (So the steps described at the end of "[Verifying the installation](#)" won't work, unless it is within a job.)

5. SURF Wiki on Snellius

For more detailed documentation, refer to SURF's wiki entries about Snellius:

- [Hardware and file systems](#)
- [Usage and accounting](#)