RL (1)

SCITAS server connection

- 0. Connect to EPFL's VPN
- 1. Connect to the online server

ssh -X EPFL_username@izar.hpc.epfl.ch

2. Type your password

your_password

3. Create a new environment (in the root directory)

python -m venv venvs/env_rl

3. Activate the environment

source venvs/env_rl/bin/activate

• To deactivate the environment

deactivate

• To quit the terminal

exit

4. To send data to the server: Go to the folder on your laptop and run the command

rsync -avz /path/to/my_rl_project EPFL_username@izar.epfl.ch:/path/to/target/folder

- 5. Prepare a batch script (for Slurm)
- Give a name to the script like "*run_rl_job.sh*"
- Type nano in the command line, copy the code (type crtl^+x), name the file (type Enter)

```
#!/bin/bash
#SBATCH --job-name=rl_training
#SBATCH --output=rl_training_%j.out
#SBATCH --error=rl_training_%j.err
#SBATCH --time=04:00:00
                               # Adjust time as needed
#SBATCH --mem=8G
                              # Adjust memory as needed
#SBATCH --cpus-per-task=4
                                # Adjust cores as needed
#SBATCH --gres=gpu:1
                             # (If you need a GPU - remove this if CPU only)
# Load modules if needed (you may not need this if your env handles it)
# module load python/3.X.X
# Activate your environment
source /home/EPFL_username/venvs/env_rl/bin/activate
# Move to your project directory
cd /home/EPFL_username/name_directory_where_your_code_is
# Run your code
python main.py --env MountainCarContinuous-v0
```

6. Once the script is ready

sbatch run_rl_job.sh

7. Monitor and Debug

squeue -u EPFL_username

- 8. To **view the files**, you can use:
- cat (if the file is small and you want to dump everything):

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cat rl_training_<jobid>.out

less (better for scrolling through longer files):

less rl_training_<jobid>.out

→ Use arrow keys to navigate, a to quit.

tail (to quickly check the end of the file):

tail rl_training_<jobid>.out

→ To keep watching the file live as it's being written:

tail -f rl_training_<jobid>.out

head (to check the top of the file):

head rl_training_<jobid>.out

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rm -r *.out rm -r *.err

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9. To delete all the files finishing in out or err

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