Where to find GPU resources @ CERN

lxplus-gpu

- lxplus-gpu.cern.ch
- Shared GPU instances with limited isolation

```
[dovombru@lxplus764 ~]$ nvidia-smi
Fri May  6 15:09:59 2022
+-----------------------------------------------------------------------------+
| NVIDIA-SMI 510.47.03    Driver Version: 510.47.03    CUDA Version: 11.6     |
|-------------------------------+----------------------+----------------------+
| GPU  Name        Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf  Pwr:Usage/Cap|         Memory-Usage | GPU-Util  Compute M. |
|                               |                      |               MIG M. |
|===============================+======================+======================|
|   0  Tesla T4            Off  | 00000000:00:08.0 Off |                    0 |
| N/A   61C    P0    30W /  70W |  14429MiB / 15360MiB |     26%      Default |
|                               |                      |                  N/A |
+-------------------------------+----------------------+----------------------+

+-----------------------------------------------------------------------------+
| Processes:                                                                  |
|  GPU   GI   CI        PID   Type   Process name                  GPU Memory |
|        ID   ID                                                   Usage      |
|=============================================================================|
|    0   N/A  N/A     20739      C                                    707MiB |
|    0   N/A  N/A     26470      C                                  13719MiB |
+-----------------------------------------------------------------------------+
```

Batch service GPUs

- HTCondor
- Presentation with examples: https://batchdocs.web.cern.ch/tutorial/exercise10.html

Gitlab runners with GPUs

- Used for Continuous Integration (CI) pipelines of gitlab projects
- Configuration and exmamples described here

Information resources

- Presentation by CERN IT at Compute Accelerator Forum
- Clouddocs documentation GPU section