

Hardware Accelerated Compute

Several RTX 2080 cards are available within the cluster, mostly on hypervisors named beginning with `gpu-a`.

To quickly start using an instance with a GPU attached, you can start with our images and flavors.

```
openstack server create --image 18.04-GPU --flavor gpu.large --boot-from-volume=32 --config-drive=true --user-data=/path/to/your/cloud-init.yml --network campus37 nslurm-01 --wait
```

SSH to your instance, which automatically has a GPU attached. Our image does not have CUDA installed, so it is recommended that you install it via cloud-init, or manually. Follow instructions at [Cuda Downloads](#)

```
apt-get purge nvidia*; apt autoremove
wget
https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64/cuda-ubuntu1804.pin
mv cuda-ubuntu1804.pin /etc/apt/preferences.d/cuda-repository-pin-600
apt-key adv --fetch-keys
https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64/7fa2af80.pub
add-apt-repository "deb
http://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64/"
apt-get -y install cuda
apt-get -y install cuda
nvidia-smi
```

```
+-----+
--+
| NVIDIA-SMI 440.64.00      Driver Version: 440.64.00      CUDA Version: 10.2
|
|-----+-----+-----+
--+
| GPU   Name               Persistence-M| Bus-Id        Disp.A | Volatile Uncorr.
ECC |
| Fan   Temp   Perf    Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compute
M. |
|=====+=====+=====+
==|
|    0  GeForce RTX 2080    Off   | 00000000:00:06.0 Off  |
N/A |
| 69%   72C    P0      38W / 215W |    0MiB /  7982MiB |      0%
Default |
+-----+-----+-----+
--+
```

+-----					
--+					
Processes:					GPU
Memory					
GPU	PID	Type	Process name	Usage	
	=====				
==					
	No running processes found				
+-----					
--+					

From:

<https://howto.cs.uchicago.edu/> - **How do I?**

Permanent link:

<https://howto.cs.uchicago.edu/cloud:recipe:gpu>

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