NVIDIA Docs Hub > NVIDIA Cloud Native Technologies > Running a Sample Workload

Running a Sample Workload

- > Running a Sample Workload with Docker
- > Running a Sample Workload with Podman
- > Running Sample Workloads with containerd or CRI-O

Running a Sample Workload with Docker

After you install and configure the toolkit and install an NVIDIA GPU Driver, you can verify your installation by running a sample workload.

> Run a sample CUDA container:

```
sudo docker run --rm --runtime=nvidia --gpus all ubuntu nvidia-smi
```

Your output should resemble the following output:

```
+-----+
| NVIDIA-SMI 535.86.10 | Driver Version: 535.86.10 | CUDA Version: 12.2
| 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% Default |
                                N/A |
-----+
| Processes:
GPU GI CI PID Type Process name
                            GPU Memory |
                             Usage |
|-----|
No running processes found
```

Running a Sample Workload with Podman

After you install and configura the toolkit (including generating a CDI specification) and install an NVIDIA GPU Driver, you can verify your installation by running a sample workload.

1 of 2 3/28/24, 15:55

> Run a sample CUDA container:

```
podman run --rm --security-opt=label=disable \
   --device=nvidia.com/gpu=all \
  ubuntu nvidia-smi
```

Your output should resemble the following output:

```
+-----+
| 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. |
N/A 34C P8 9W / 70W | 0MiB / 15109MiB |
                    0% Default |
         - 1
                1
+-----+
| Processes:
GPU GI CI PID Type Process name
ID ID
                     GPU Memory |
  ID ID
                      Usage |
|-----|
| No running processes found
+------
```

Running Sample Workloads with containerd or CRI-O

These runtimes are more common with Kubernetes than desktop computing. Refer to About the NVIDIA GPU Operator in the NVIDIA GPU Operator documentation for more information.

2 of 2 3/28/24, 15:55