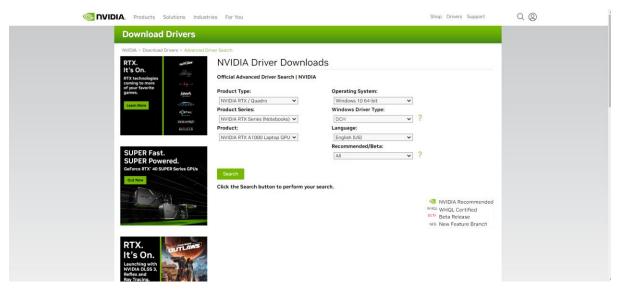
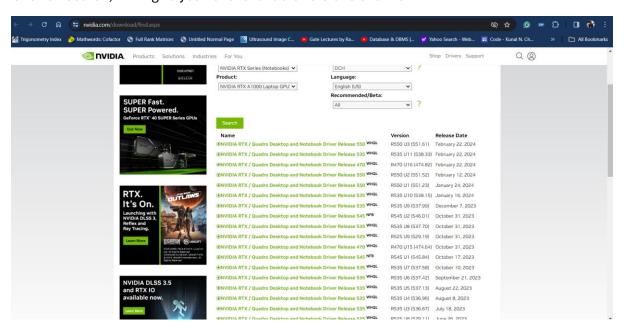
Nvidia-Driver Installation:

Link: https://www.nvidia.com/download/find.aspx

Click on Link and select the appropriate option as shown below:



Click on search, it will give you list of available versions of driver.



Download the driver and install it in your system. In our case we have selected 551.52 versions

Cuda Toolkit Installation:

Link: https://developer.nvidia.com/cuda-downloads?target_os=Linux&target_arch=x86_64&Distribution=WSL-Ubuntu&target_version=2.0&target_type=deb_network

Select the appropriate options:

Operating System	Linux Windows
Architecture	x86_64 ppc64le arm64-sbsa aarch64-jetson
Distribution	CentOS Debian Fedora KylinOS OpenSUSE RHEL Rocky SLES Ubuntu
	WSL-Ubuntu
Version	2.0
Installer Type	deb (local) deb (network) runfile (local)

It will give you to download and install appropriate driver. As mentioned in the screen shot.



Follow the command to download and install cuda toolkit.

Base Installer:



- wget https://developer.download.nvidia.com/compute/cuda/repos/wslubuntu/x86_64/cuda-keyring_1.1-1_all.deb
- sudo dpkg -i cuda-keyring_1.1-1_all.deb
- sudo apt-get update
- sudo apt-get -y install cuda-toolkit-12-4

Additional installation options are detailed here.

Docker Installation in WSL

Link1:

https://docs.rapids.ai/install?_gl=1*s0kbz1*_ga*ODkyMzg4MDA5LjE3MTA1OTAxMjY.*_ga_RKXF W6CM42*MTcxMDY1MDc2Mi4zLjAuMTcxMDY1MDc2Mi42MC4wLjA.#wsl2-docker

Link 2: https://learn.microsoft.com/en-us/windows/wsl/tutorials/gpu-compute

Download and Install. Copy command below to download and install the latest:

```
curl https://get.docker.com | sh
```

Install Latest NVIDIA Docker. Select the appropriate supported distribution:

- distribution=\$(. /etc/os-release;echo \$ID\$VERSION ID)
- curl -s -L https://nvidia.github.io/nvidia-docker/gpgkey | sudo gpg --dearmor -o /usr/share/keyrings/nvidia-docker-keyring.gpg
- curl -s -L https://nvidia.github.io/nvidiadocker/\$distribution/nvidia-docker.list | sed 's#deb https://#deb
 [signed-by=/usr/share/keyrings/nvidia-docker-keyring.gpg]
 https://#g' | sudo tee /etc/apt/sources.list.d/nvidia-docker.list
- sudo apt-get update
- sudo apt-get install nvidia-container-runtime

Start Docker. In new terminal window run:

- sudo service docker stop.
- sudo service docker start.

```
amish@VisioSphereAl:/mnt/c/Users/amish$ sudo service docker stop
Warning: Stopping docker.service, but it can still be activated by:
docker.socket
anish@VisioSphereAl:/mnt/c/Users/amish$ sudo service docker start
anish@VisioSphereAl:/mnt/c/Users/amish$ docker run --nous all norm io/nvidia/k8s/cuda-samnle:nbody.nbody.-nou --benchmark
```

Test NVIDIA Docker. In a terminal window run:

docker run --gpus all nvcr.io/nvidia/k8s/cuda-sample:nbody nbody -gpu
-benchmark

- It will Check the docker image available in your local, if it is available, it will run it.
- If specific docker image is not available, it will pull it.

```
Mashewisioshmenal:/mmt/c/Users/amish$ docker run --gpus all norr io/nvidia/k8s/cuda-sample:nbody nbody -gpu -benchmark
Unable to find image 'nore. io/nvidia/k8s/cuda-sample:nbody' locally
nbody: Pulling from nvidia/k8s/cuda-sample
22c1esf6as6e: Pull complete
1393e424881H: Pull complete
32d84654866: Pull complete
42d4654666: Pull complete
42d4654666: Pull complete
42d4654666: Pull complete
42d6656: Pull complete
42d66562: Pull complete
42d6656: Pull complete
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42d665666: Pull complete
42d665666: Pull complete
42d6656
```