WSL安装CUDA环境

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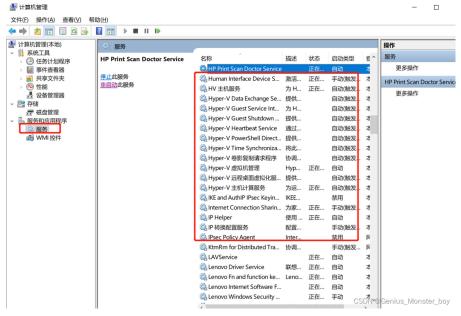
1.打开虚拟机功能

打开控制面板—>程序与功能—>启用或关闭Windows功能,勾选以下功能 适用于Linux的Windows子系统

虚拟机平台

计算机管理-服务

Hyper-v所有相关服务自动启动

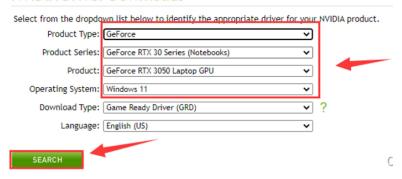


重启

2.安装cuda-wsl驱动,注意英伟达官网如果找不到把com改为cn即可

驱动下载地址: https://developer.nvidia.com/cuda/wsl 根据你自己显卡型号选择对应驱动

NVIDIA Driver Downloads



下载并安装

3.安装WSL2

cmd查看WSL版本 wsl -l -v 如果是WSL1,需要升级到WSL2

下载Linux 内核更新包并安装,下载地址

https://wslstorestorage.blob.core.windows.net/wslblob/wsl_update_x64.msi

将Ubuntu18.04设置为WSL2

wsl --set-version Ubuntu-18.04 2

查看wsl版本,看是否变成版本2

wsl -l -v

4.安装CUDA

sudo apt-key adv --fetch-keys

http://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64/7fa2af80.pub sudo sh -c 'echo "deb http://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64 /" > /etc/apt/sources.list.d/cuda.list'

sudo apt-get update

sudo apt-get install -y cuda-toolkit-11-0

如果缺少依赖报错就安装下面依赖

sudo apt-get install freeglut3-dev build-essential libx11-dev libxmu-dev libxi-dev libgl1-mesa-glx libglu1-mesa libglu1-mesa-dev

补充: WSL更换源, 加速软件下载

sudo cp /etc/apt/sources.list /etc/apt/sources.list.bak sudo chmod 777 /etc/apt/sources.list sudo vim /etc/apt/sources.list

在vim命令模式下按d,删除里面内容

按:切换到编辑模式 将下面内容粘贴进去

按esc按键回到命令模式 按:wg保存文件

阿里源:

deb-src http://mirrors.aliyun.com/ubuntu/ bionic main restricted universe multiverse deb-src http://mirrors.aliyun.com/ubuntu/ bionic-security main restricted universe multiverse deb-src http://mirrors.aliyun.com/ubuntu/ bionic-security main restricted universe multiverse deb http://mirrors.aliyun.com/ubuntu/ bionic-updates main restricted universe multiverse deb-src http://mirrors.aliyun.com/ubuntu/ bionic-proposed main restricted universe multiverse deb-src http://mirrors.aliyun.com/ubuntu/ bionic-backports main restricted universe multiverse

更新一下包

sudo apt update