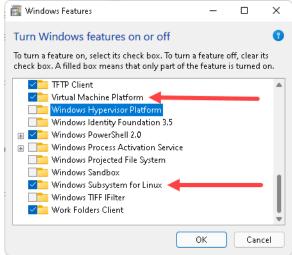
## Lab Setup for Network Automation with Python

Activate the Windows Subsystem for Linux (WSL) from the Control Panel:

Control Panel\All Control Panel Items\Programs and Features > Turn Windows
features on or off >

Check the checkbox for **Virtual Machine Platform** and **Windows Subsystem for Linux** Note: You must be running Windows 10 64-bit



Restart as needed.

Open the Microsoft Store. Download and install the Windows Terminal app and Ubuntu.

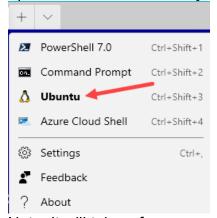




- After Ubuntu is installed, launch it and configure the username as cisco and the password as cisco.
- 4. Close Ubuntu.
- Open Windows Terminal.

Right-click Start > Windows Terminal or run > wt

Open an Ubuntu console by clicking the dropdown and selecting Ubuntu.



Note: It will take a few moments to install. You may have to restart the Terminal for changes to take effect.

## Lab Setup for Network Automation with Python

You should get a prompt similar to this:

8. Remove the requirement to enter a password for sudo. Open the /etc/sudoers file and at the end of the file add this line:

Note: This file is hidden until you add your code.

## sudo visudo

Type this at the bottom of the file:

cisco ALL=(ALL) NOPASSWD:ALL

- 9. Save, Close, and reopen Windows Terminal.
- 10. Add user to the sudo group:

```
sudo usermod -aG sudo cisco
```

11. Check the user was added to the group:

```
grep '^sudo' /etc/group
sudo:x:27:cisco
```

12. Update Ubuntu:

sudo apt update && sudo apt upgrade -y

13. Check Python and PIP versions:

```
python3 --version
  Python 3.8.10 (or later)

pip3 --version
  pip 22.0.4 from /usr/local/lib/python3.8/dist-packages/pip (python 3.8) (or later)
```

14. If needed, install Python:

```
sudo apt install python3 -y (sudo apt reinstall python3)
```

15. If needed, install PiP3:

```
sudo apt install python3-pip -y (python3 -m pip install --upgrade pip)
```

16. Install Netmiko and Git:

```
sudo apt install python3-netmiko git-all -y
```