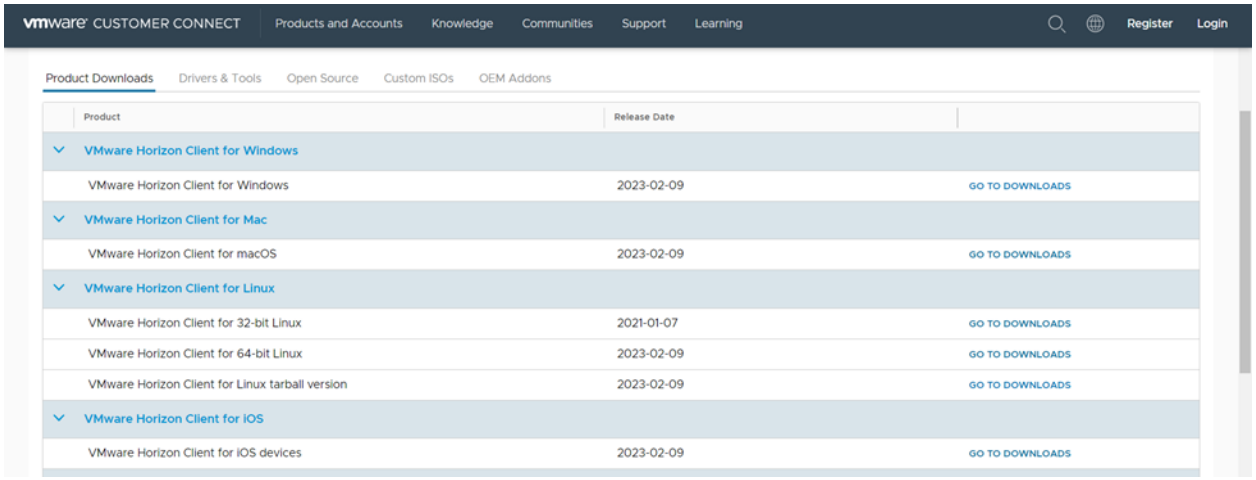
1. Download the VMWare Horizon Client for your setup: Link (https://customerconnect.vmware.com/en/downloads/info/slug/desktop_end_user_computing/vmware_horizon_clients/horizon_8)



Select your appropriate OS (Windows, Linux, Mac and Chromebook supported). Follow the setup instructions directly with their default settings (no changes needed)

For Windows:

- download the exe by clicking on ‘Go to Downloads`
- Follow through the installation instructions

For Linux:

- Download appropriate Linux version (32 bit or 64 bit)
- In the download directory, open a terminal and run:

chmod +x VMware-Horizon-Client-2212.1-8.8.1-21219348.x64.bundle

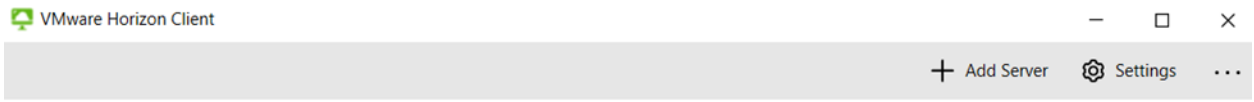
sudo ./ VMware-Horizon-Client-2212.1-8.8.1-21219348.x64.bundle

For Mac:

- Download the Mac version (dmg file)
- Run directly

After installing the client, a reboot may be required. If you are unable to follow the next steps, please reboot and proceed from step #2

2. Open the VMWare Client and add a new server and connect to: devpad.nvidialab.com

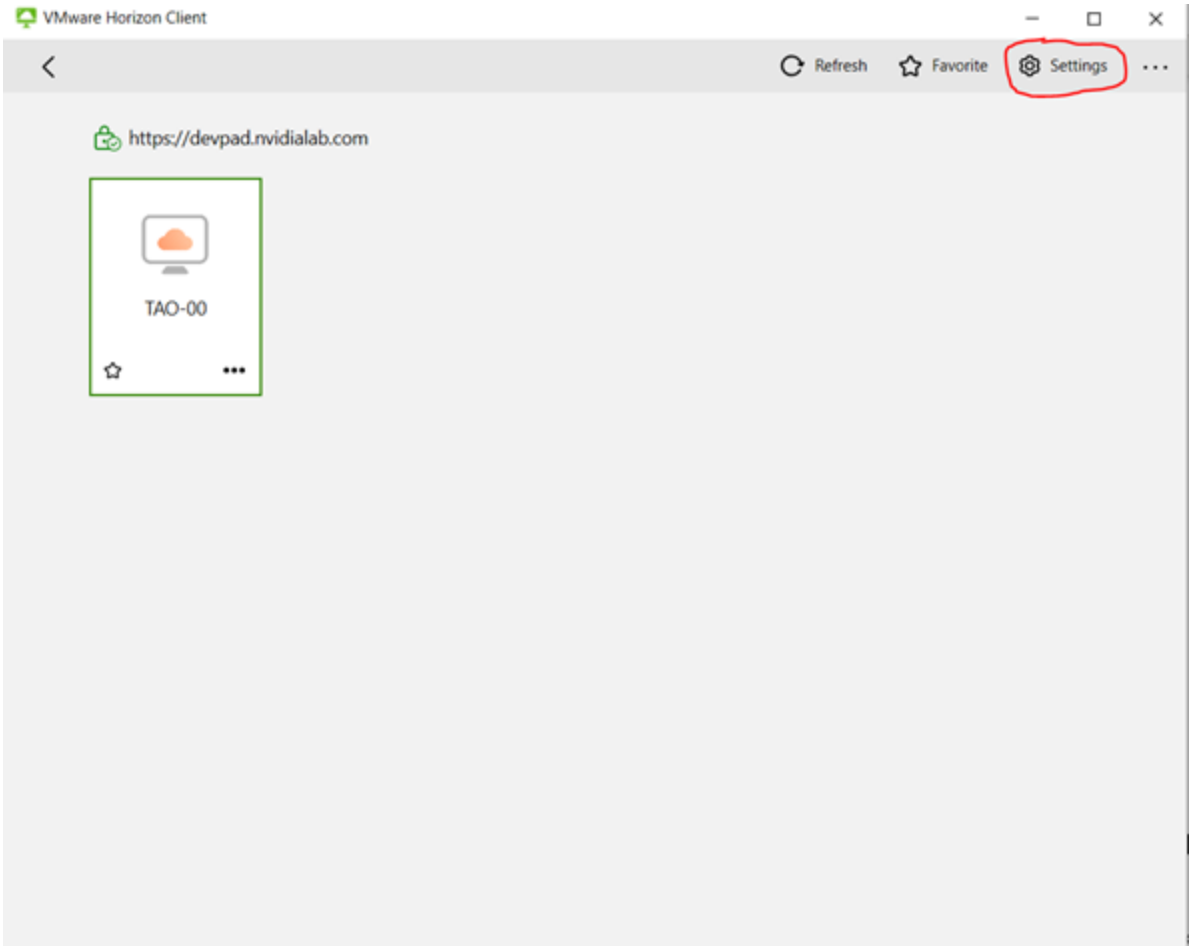


3. On the next screen double click on the server which was added

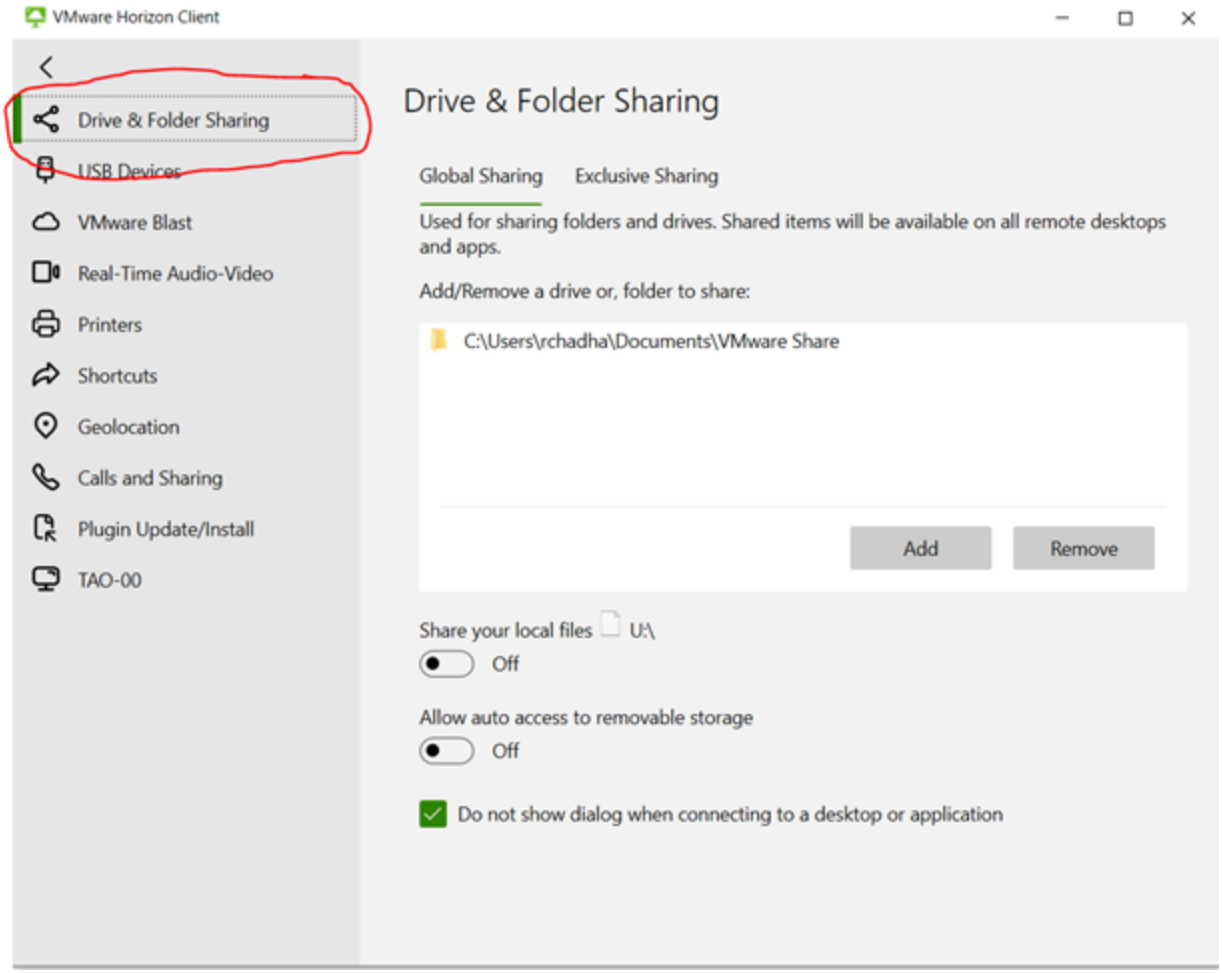
Reach out to us at JONReviewersTeam@nvidia.com to receive credentials for logging into the instance

Use the credentials provided for logging into this instance.

4. On the next screen, you should be able to see the instance assigned to you. Click on Settings on the top right corner in the VMWare Client Window



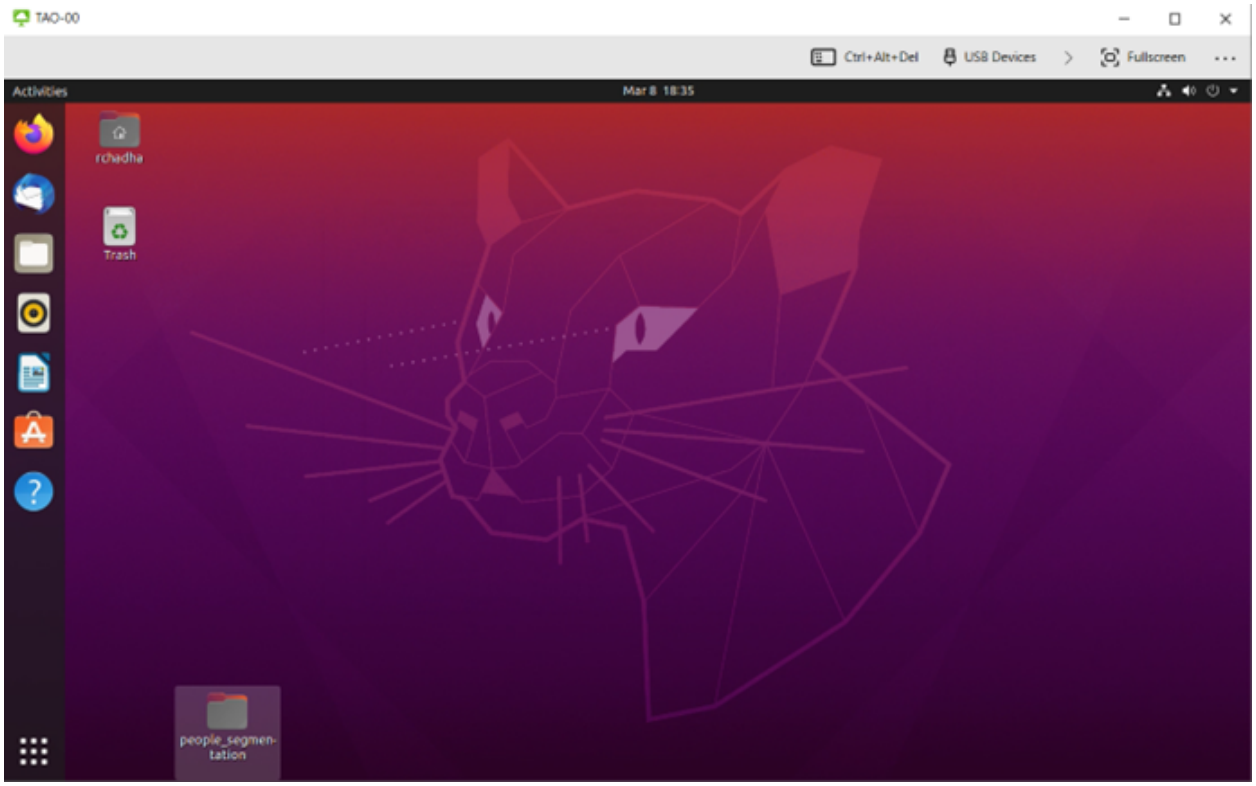
5. We need to mount a local directory to this cloud instance. This is needed so that you can download the model which you will train. After clicking on settings:



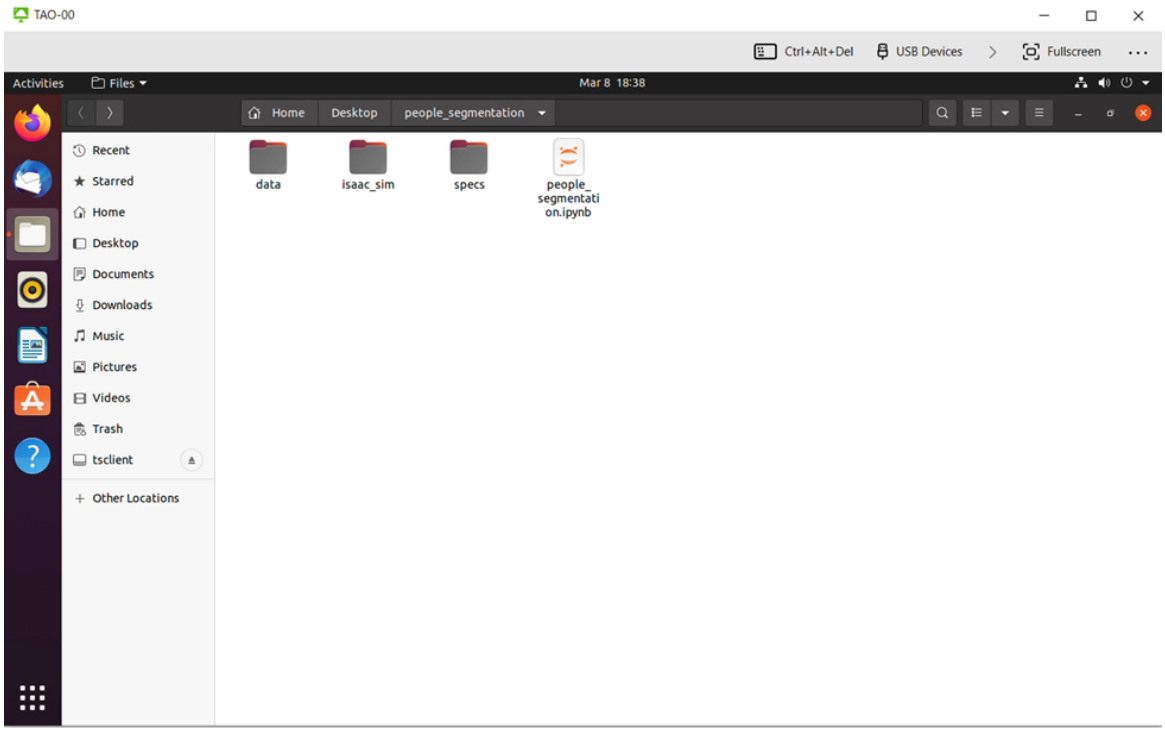
6. Click on Add to mount a local directory to your cloud instance. We recommend creating a new folder and mounting that. Create a folder called “vmware_share” at a location of your choice and mount it by selecting the folder after clicking the Add button. Ensure that the name of the folder is “vmware_share” (no double quotes) and the folder is empty.

7. Click on back at the top left after adding a folder from step #6

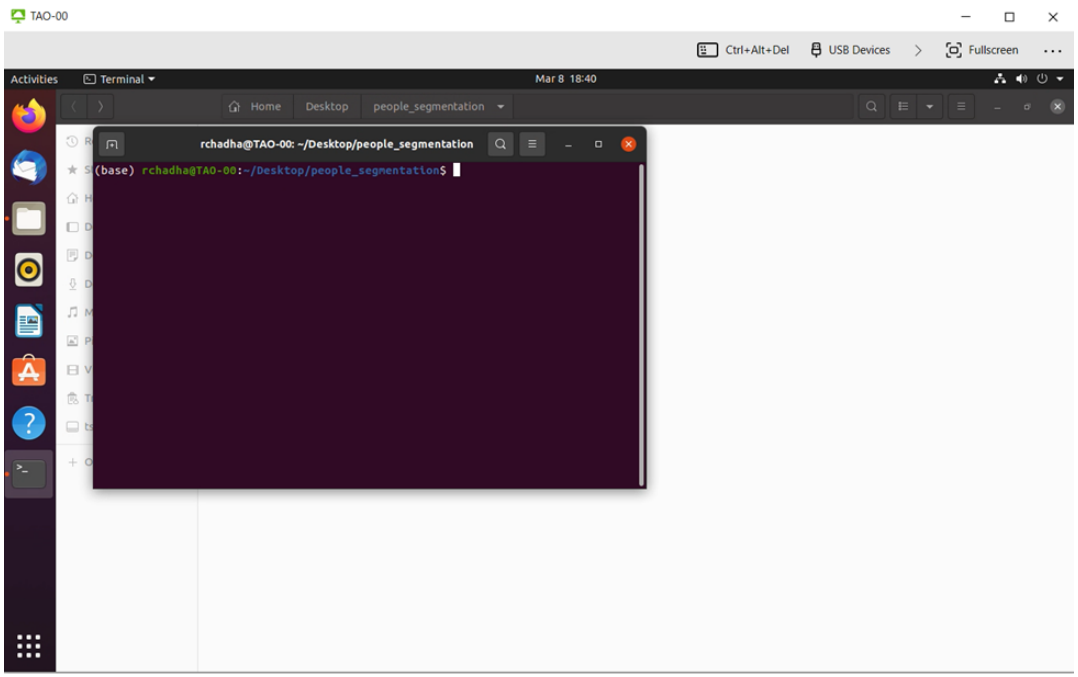
8. Double click on your instance and it should take you into the cloud workstation. You will get full desktop-like access to an Ubuntu instance where we will be going through the workflow. (You might have to login again there, use the same credentials as Step #3



9. Double Click on the people_segmentation folder (You can also use the File explorer on the left, the people_segmentation folder is on the Desktop)



10. Once you are in the people segmentation directory, Right Click -> Open in terminal. You screen should look like this:

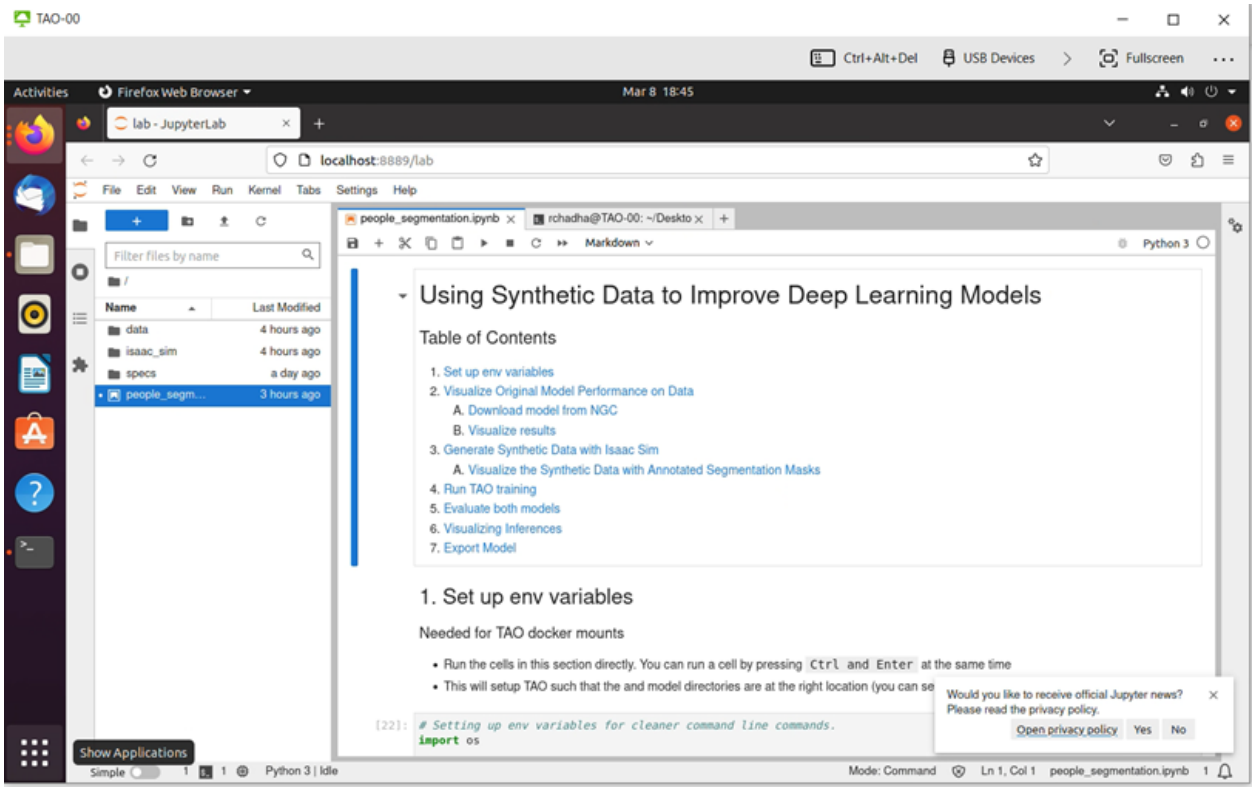


11. Run the following commands in the terminal:

i. conda activate launcher

ii. jupyter lab

This should open up a new Firefox tab with the Jupyter Lab session



12. Follow the steps in the Jupyter Notebook (the notebook is visible on the left side. If it does not open up directly, you can double click on ‘people_segmentation.ipynb’ and the notebook should come up on the right side. You can now run through the steps.

13. You can enter the full screen mode to run through the notebook. Code blocks are executed with `Shift + Enter`. Markdown (text only cells) don’t need to be executed, nothing will happen if you hit ‘Shift + Enter’ for those cells.

The notebook will walkthough generating and using synthetic data to train and improve deep learning models. We will look at a robotics use case of segmenting people from images and understand how synthetic data can help our robot understand humans in the environment better.