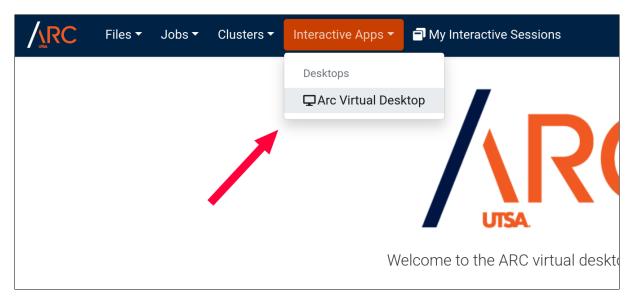
Getting ARC setup

To access the virtual desktop on ARC via the web, you must go to https://portal.arc.utsa.edu/ and log in with your UTSA id, passphrase, and DUO app.

Once logged in you'll be able to schedule a job on ARC that reserves a node and allows you to run a virtual desktop from your web browser.

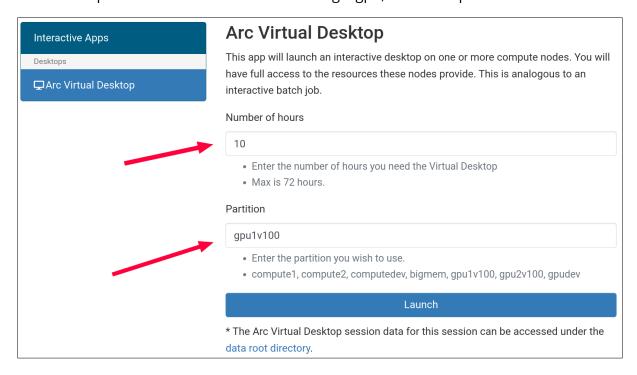
Launching a virtual desktop

Once logged in, to launch a virtual desktop go to Interactive Apps to bring down the option for Arc Virtual Desktop.



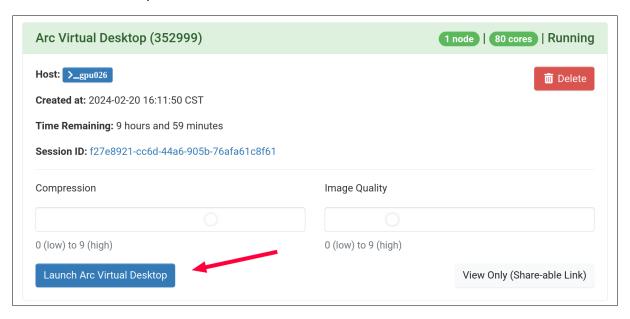
Once you click that you'll be presented with a page that asks for the number of hours you intend to use the virtual desktop and the partition you want to use.

For this workshop we will be need a node with a single gpu, and can input 4 hours.



Once the job request is sent you will get a confirmation that the job has been scheduled. Your job request will then be queued until the resource can be allocated (For this workshop it will be nearly immediate).

Once you acquire a node you'll get this menu on your interactive sessions page that allows you to launch the virtual desktop and shell.



For more information about using the Virtual desktop in ARC read guide at: https://hpcsupport.utsa.edu/foswiki/bin/view/ARC/VirtualDesktop

Once you've clicked **Launch Arc Virtual Desktop**, launch a terminal by clicking the Terminal Icon in the bottom



Run the following commands in the terminal

Pull the tutorial from the github repo

 $\verb|git| \verb| clone| \verb| https://github.com/IsaulGarcia/ml_workshop_utsa.git|$

```
cd ml_workshop_utsa
```

Load some ARC modules we will use

```
ml cuda/toolkit
ml cuda/cudnn
ml anaconda3
```

Create an environment and install some libraries we will use

```
conda create -n workshop_ml jupyter pytorch==1.12.1 torchvision==0.13.1 torchaudio==0.12.1

→ cudatoolkit=11.3 -c pytorch

conda activate workshop_ml

jupyter notebook
```

This will open a juypter notebook in your browser, open tutorial_1.pynb to begin:)