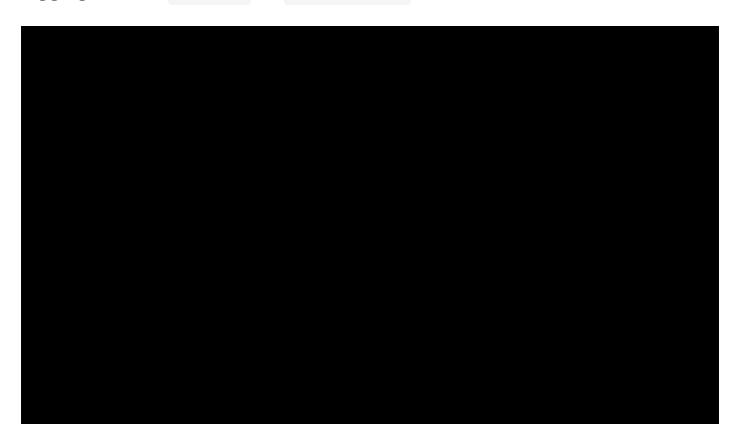
Using Atmosphere

Setup of Instance

This will give you step-by-step instructions for starting an Atmosphere instance with the kaldi_instructional resources already loaded.

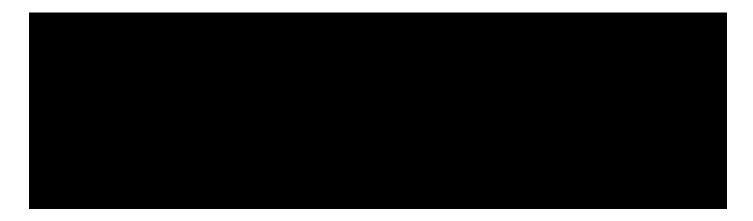
Go to the cyverse login: https://user.cyverse.org/services/mine and, after logging in, click LAUNCH on Atmosphere.



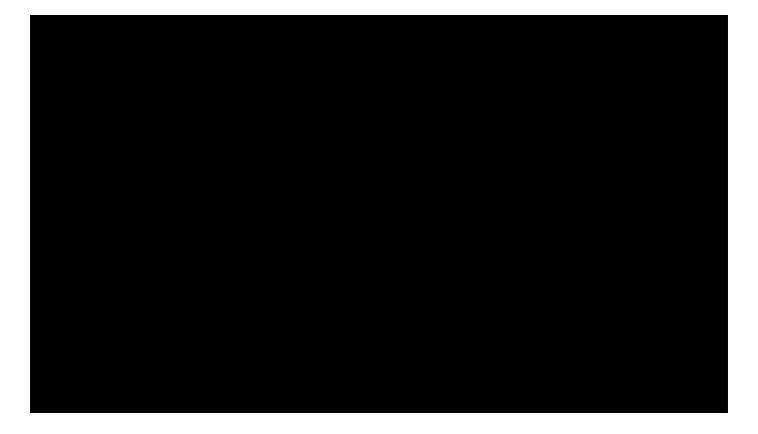
You'll arrive at your Dashboard . Here you can see information about your allocations (how much you are using and how much you "have left"). Select Launch New Instance .



Enter kaldi into the Image Search, and select the kaldi_instructional_2017 image.

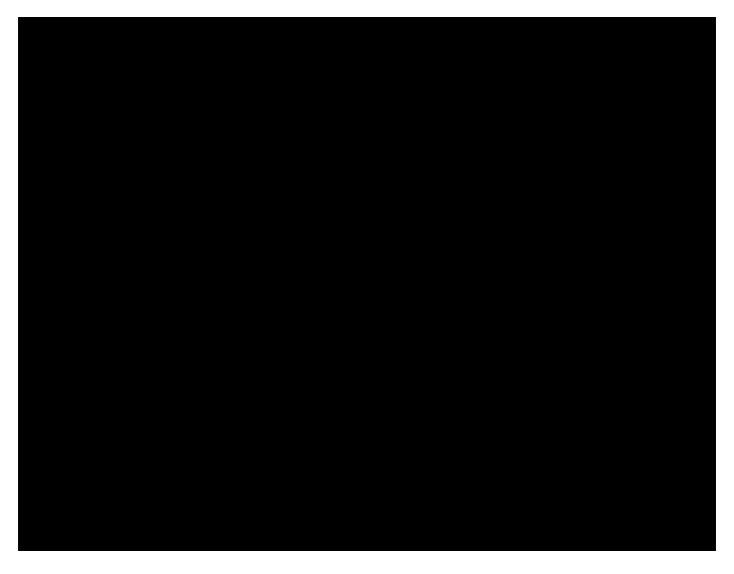


You'll see some details about this image. In the upper right, select Launch.



You'll now be asked to set up the instance. a. Give an Instance Name.b. Keep Base Image Version at 1.0.c. You may need to name the Project (e.g. the collection of images and volumes). d. Select your Instance Size. The code has been built under the assumption that you will be using medium2. No guarantees can be made that anything smaller will work. And while you're welcome to choose a larger instance, know that your Allocation Units are calculated based on the number of CPU s you are running, so you will likely need to Shutdown your instance when it's not in use to ensure you don't run our of monthly Allocation Units.

Click Launch Instance.



When your instance is built, you will see it shown with a Status of Active. You'll also see an IP Address to access the instance.



Setup of Volume (optional)

It's also recommended that you add a Volume (e.g. external storage drive that is *separate* from your instance) so that you can occasionally backup the files you build throughout the course. In case of a problem with your instance, you can always start a new instance and transfer those files from

the volume. Click New-Volume.

You'll now set up the volume. a. Give a Volume Name . b. Select the Volume Size . 100GB should be plenty of space, but you are free to choose whatever size fits your needs and current allocations.

Click Create Volume



You will see that its Status is Unattached . Click on the volume link.

Click Attach.



You'll be asked to select an instance to attach it to.



Now when you return to your Project, you'll see that the Status of your volume is Attached to [instance_name].

The volume will be mounted at /vol_c/ in your instance.

Accessing Instance

You can now access your image by ssh ing into it with the following command:

```
ssh [your_cyverse_id]@[instance_ip]
```

For example:

```
ssh mcapizzi@123.145.125.53
```

However, **if you intend to utilize jupyter**, you will need to use the following command:

```
ssh -L [port]:localhost:[port] [your_cyverse_id]@[instance_ip
```

The *default* port that is used by our scripts is 8880, and unless you have a reason to change it, that should be used for simplicity.

The command will then look like:

```
ssh -L 8880:localhost:8880 mcapizzi@123.145.125.53
```

If you **do not** add the -L argument, you will still be able to access your instance but **not** jupyter