

# SARP Cloud Platform Orientation Notes

## Logging On/Off

Access the cloud platform with the link: <https://daskhub.sarp.smce.nasa.gov>

You may be asked to sign in. Once entering your credentials you will be asked to choose the size of your server.

## Server Sizes

- Small (4GB max memory)
- Large (8GB max memory)
- Extra large (16 GB max memory)

## Server Options

☒ **Small Server**  
Small notebook server. 1GB RAM/1 CPU reserved. Up to 4GB RAM/4 CPU as needed.

☐ **Large Server**  
Large notebook server. 2GB RAM/2 CPU reserved. Up to 8GB RAM/4 CPU as needed.

☐ **Extra Large Server**  
Extra Large notebook server. 16GB RAM/4 CPU reserved.

Start

The servers come in several sizes, the size of which is determined by the amount of memory the server has. The amount of memory determines how large of a file you can open from your server. If you aren't super familiar with memory don't worry too much for now, just know that in general try to start with the small server and move to the bigger server if you need it. You will know you need a bigger server if you are running code and the code crashes. You know the server has crashed if you get a popup similar to the following:

### Kernel Restarting

The kernel for lesson1\_intro\_cloud\_python\_east/lesson1.ipynb appears to have died. It will restart automatically.

Ok

If you are getting this message consistently when doing the same process you may try stopping the server and restarting with a larger server size.

## Shutting Down

Please shut down your instance at the end of your work, if you remember. If you forget your instance will be closed automatically after a few hours.

File > Hub Control Panel > Stop My Server

## Shared vs. Private Workspaces

While everyone's initial login screen looks similar, there are actually some folders that are shared by everyone and some that are private just to you.

The shared folder spaces are:

- The `efs` folder
- The `lost+found` folder
- The `s3-readonly` folder

Anything that gets saved anywhere **except** those three folders is only visible to your user. This personal private space has a 10 GB maximum.

## Group Folder Organization

The `efs` folder is probably the most common shared folder you will use. The folder is setup as follows:

- `/efs/sarp/data`
  - `rawdata_readonly/` – Folder space for dataset downloads
  - `group_workspaces/` – Folder space for your group to work together
    - `surf`
    - `turf_flux`
    - `turf_soilmoisture`
    - `abovetheearth`
    - `swislr`

Your individual research can be saved in your private space.

# Uploading Data

Click the “Upload” button on the interface

