

September 19th 2025

Icahn School of Medicine at Mount Sinai

To prepare for AIRMS Training Session I, please follow the step-bystep setup guide. The guide will walk you through:

- Verifying prerequisites (accounts, software, connections)
- Accessing Minerva
- Launching our Training Jupyter Notebook
- Launching ollama on Minerva

The Jupyter Notebook will serve as a follow-along resource during the training session, so it is important to confirm access in advance. We recommend that you complete this setup a few days before the session to ensure everything is working smoothly and to allow time for troubleshooting if needed.

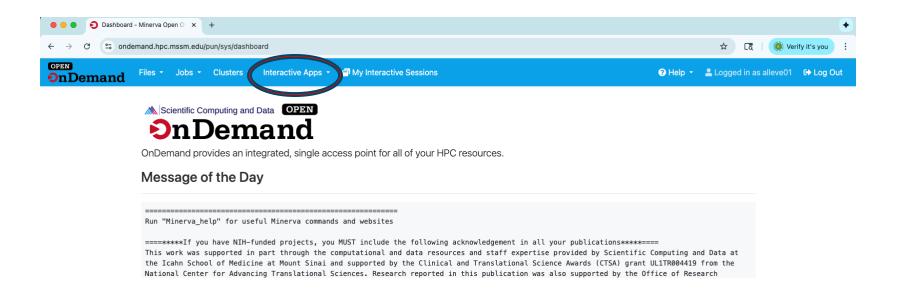
Pre-requisites

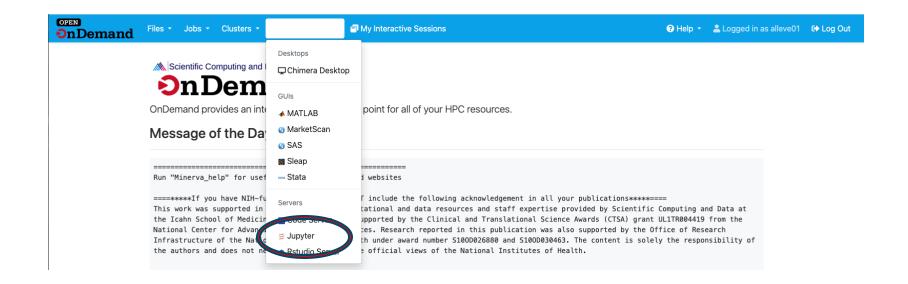
- 1. Possess a Mount Sinai School Network account
- 2. Request and obtain a Minerva account
- 3. Have an active Symantec VIP 2-factor authenticator (download here)
- 4. Request and obtain access to AIR-MS MSDW DEID Dataset
- 5. Be either onsite on Mount Sinai Network (NOT Guest Wi-Fi) or connected to VPN

For more information on how to fulfill these steps visit our getting started page

Step 1: Launch a Jupyter Lab via OnDemand

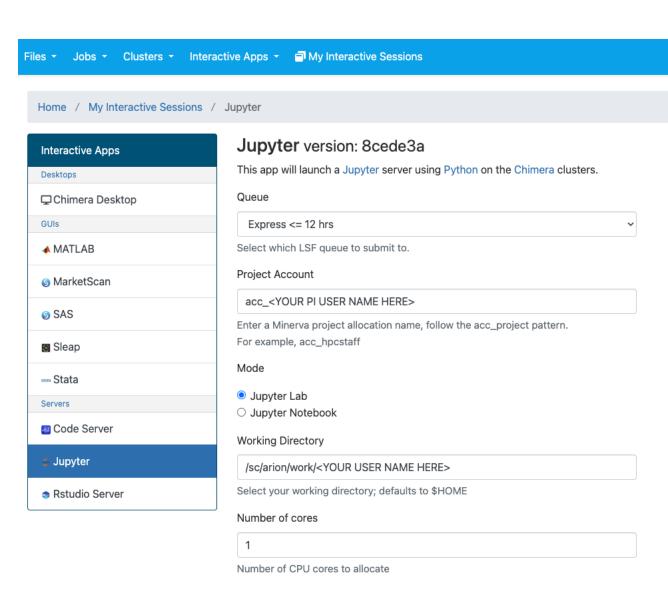
- 1. Navigate to OnDemand via your browser
- 2. Sign in with your Mount Sinai credentials and password
- 3. Click on "Interactive Apps" and then select "Jupyter"





Step 1: Launch a Jupyter Lab via OnDemand

- 1. Navigate to OnDemand via your browser
- 2. Sign in with your Mount Sinai credentials and password
- Click on "Interactive Apps" and then select "Jupyter"
- 4. Now fill out the form with the following and press "Launch":
 - Queue: Express <= 12 hrs
 - Project Account: The name of your Minerva project allocation, usually acc_<project name>. If you recently requested an account and
 do not have a project it might be something like acc_<your Pl username>
 - Mode: Jupyter Lab
 - Working Directory: /sc/arion/work/<INSERT YOUR USER NAME HERE>
 - Number of cores: 1
 - Memory request (in GB): 1
 - Number of hours: 1 (you might want to select 2 during the training session and 1 for testing)
 - Python version: Python 3
 - Extra Modules: leave blank
 - Reservation ID: leave blank



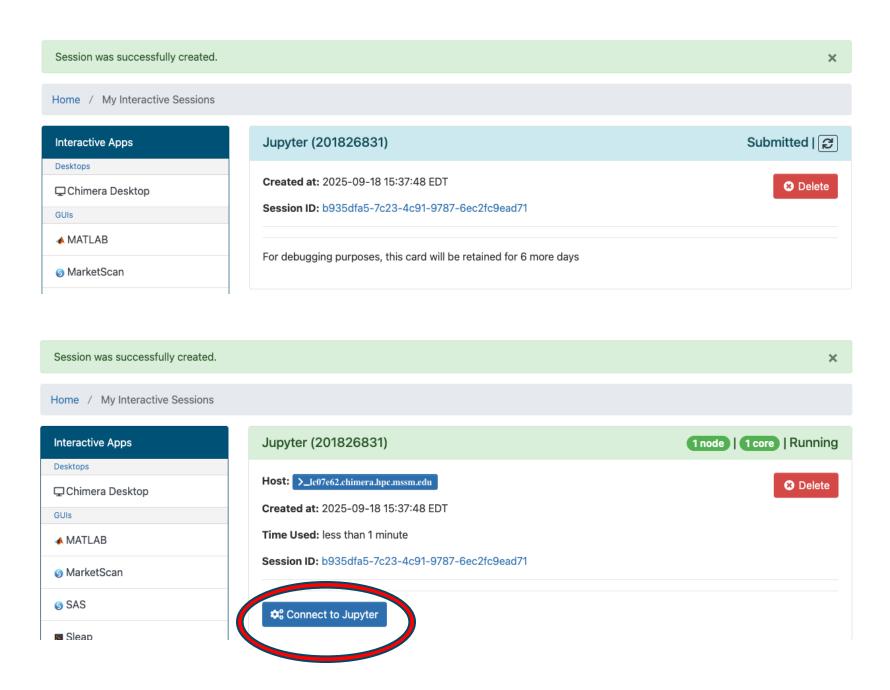
1
Amount of memory PER CORE needed for this job in units of GB. Use 0 if requesting full node.
Total memory = Number of cores * Memory request
Number of hours
1
Python version
Python 3
Select the version of Python to run Jupyter. The version of Jupyter is determined by the version of Python. Python 3: python/3.7.3 for centos7, python 3.12.5 for rocky9
Conda env: choose "Conda env" to use your own conda env.
Use gpu/gpuexpress queue for pytorch.
Extra Modules
Put extra modules you want to load here, seperated by space for multiple modules.
Do NOT load any python modules here.
Reservation ID (Optional)
Put the reservation ID here if you have ener. Otherwise leave it blank.
Launch
* The Jupy Cossion data for this session can be accessed und the data root

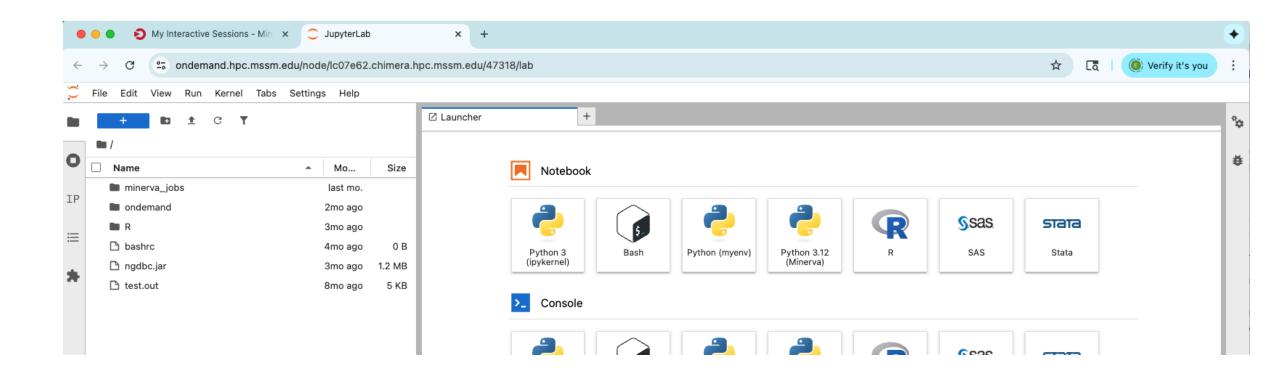
Memory request (in GB)

directory.

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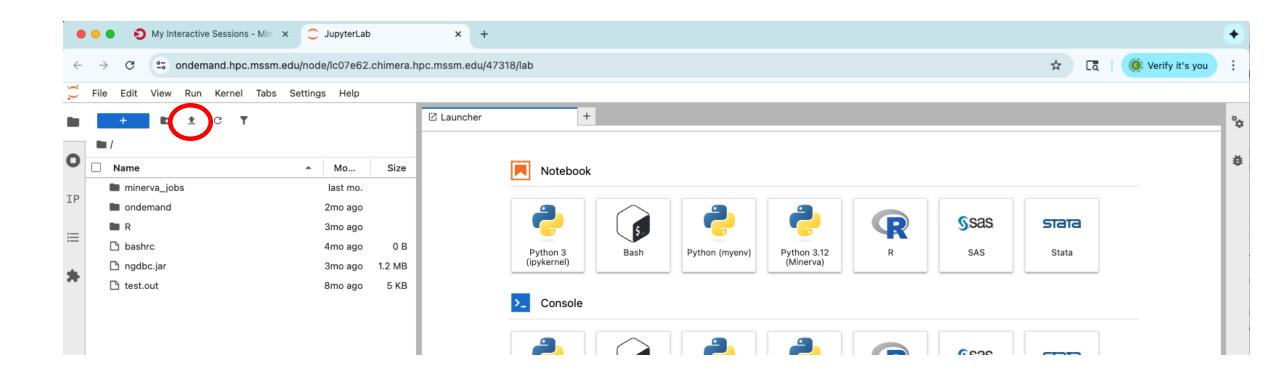
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- 5. Wait for the session to be in "Running" status and then press the "Connect to Jupyter" button

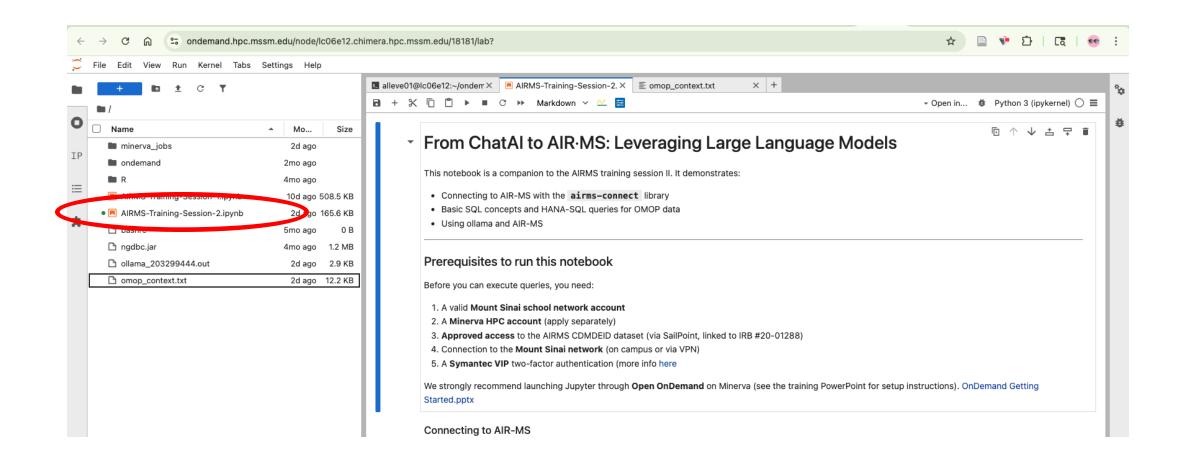




Step 2: Run the Jupyter Notebook

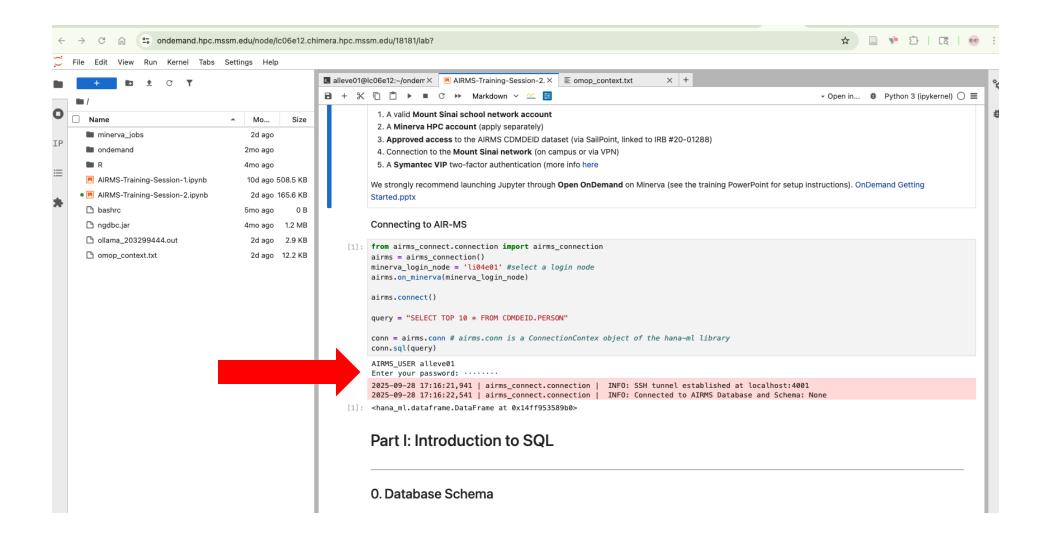
1. Download our example Jupyter Notebook at this <u>link</u> and drag & drop or upload (upper arrow icon button) it in your Jupyter Lab. Click on it once it appears on the left panel





Step 2: Run the Jupyter Notebook

- 1. Download our example Jupyter Notebook at this <u>link</u> and drag & drop or upload (upper arrow icon button) it in your Jupyter Lab. Click on it once it appears on the left panel
- 2. Run the cells in the "Connecting to AIR-MS" section to connect to AIR-MS
- 3. You will be asked to input
 - AIRMS_USER which corresponds to your Minerva username
 - Password which is your Mount Sinai password (without VIP token)
- 4. You are now connected to AIR-MS and should be able to run all the following cells



Step 2: Run the Jupyter Notebook

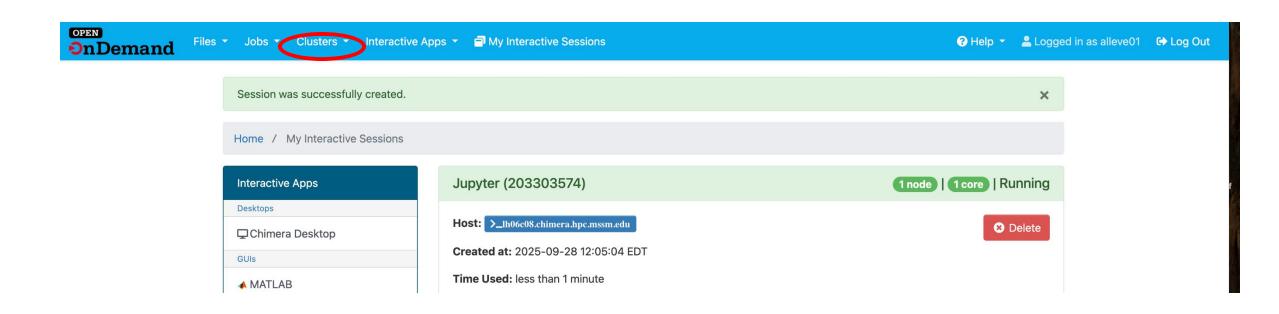
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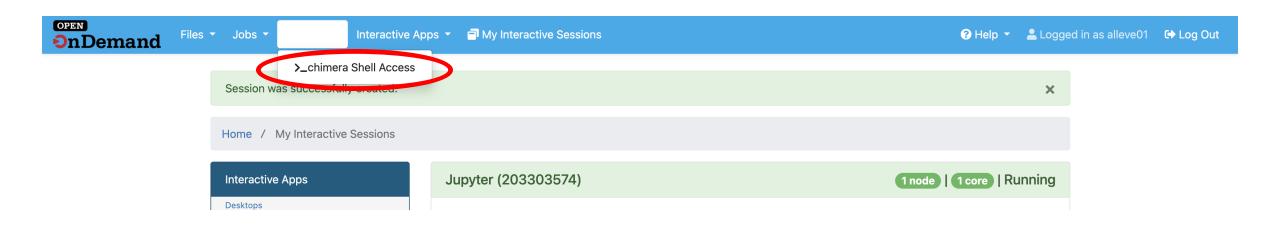
Setting Up ollama

In **Part II** of our training notebook, we will ask you to start an **ollama server** on Minerva to use open source LLMs.

To do this, follow these steps:

1) Navigate to clusters>chimera Shell access



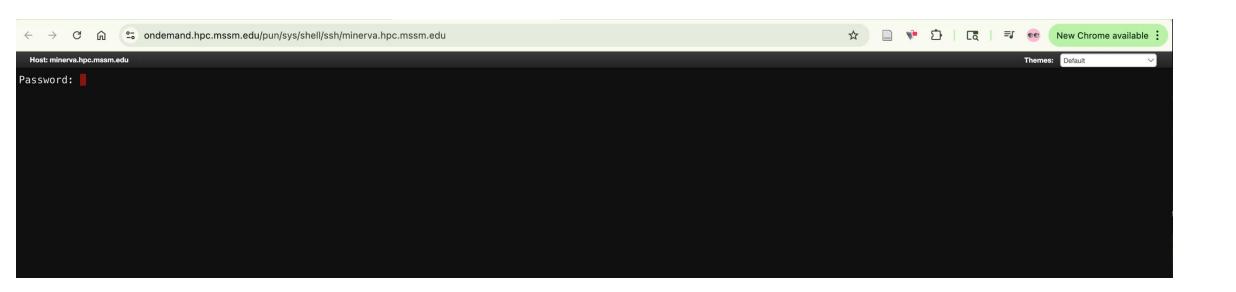


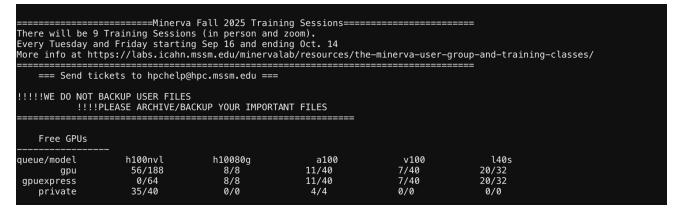
Setting Up ollama

In **Part II** of our training notebook, we will ask you to start an **ollama server** on Minerva to use open source LLMs.

To do this, follow these steps:

- 1) Navigate to clusters>chimera Shell access
- 2) Enter your password followed by the Symantec VIP token and press enter to access Minerva







Setting Up ollama

In **Part II** of our training notebook, we will ask you to start an **ollama server** on Minerva to use open source LLMs.

To do this, follow these steps:

- 1) Navigate to clusters>chimera Shell access
- 2) Enter your password followed by the Symantec VIP token and press enter to access Minerva
- 3) Run minerva-ollama-web.sh -o /sc/arion/work/<your user name> from the terminal and wait until the ollama server is up and running
- 4) Copy the line with ollama_client = Client(host=' [...] into our training notebook

```
(base [alleve01@li04e01 ~]$ minerva-ollama-web.sh -o /sc/arion/work/alleve01/
[INFO] image not specified, check if previously used
[INFO] Found previously more image (sc/arion/work/alleye01//micony_joky,u
[INFO] Project is not specified, or is acc_null, using 1st avail project.
                                                                                     /octama_jobs/ollama_v0.3.10.sif. Using it.
 [INFO] Project to use is acc_pasml
 [INFO] Parameters used are:
 [INF0] -n
 [INFO] -M
 [INFO] -W
 [INFO] -P
 INFO] -J
 INFOl -a
 [INFO] -R
 [INF0] -q
 [INF0] - o
 [INF0] -i
 [INFO] Submitting Ollama job...
 [INFO] Job ID: 203303626
Ollama is started on compute node lg03a09, port 9999
[Authentication Info]
User ID: alleve01
Token: 4b3419f634a99264b04bae5be950c8e0
Access URL: http://10.95.46.94:53626
*** You can access Ollama from Python as shown below ****
ollama_client = Client(host='http://10.95.46.94:53626', headers={"Authorization": "Bearer alleve01:4b3419f634a99264b04bae5be950c8e0";
```



For help, please reach out to airms-support@mssm.edu

For additional resources visit:

- Our Researcher Tutorials (Accessible on Mount Sinai Network or VPN)
- Our Website

