



**High-Performance Data-Intensive  
Computing Systems Laboratory**

# Jupyter User Interface in Nautilus

MORENet Technical Summit

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University of Missouri

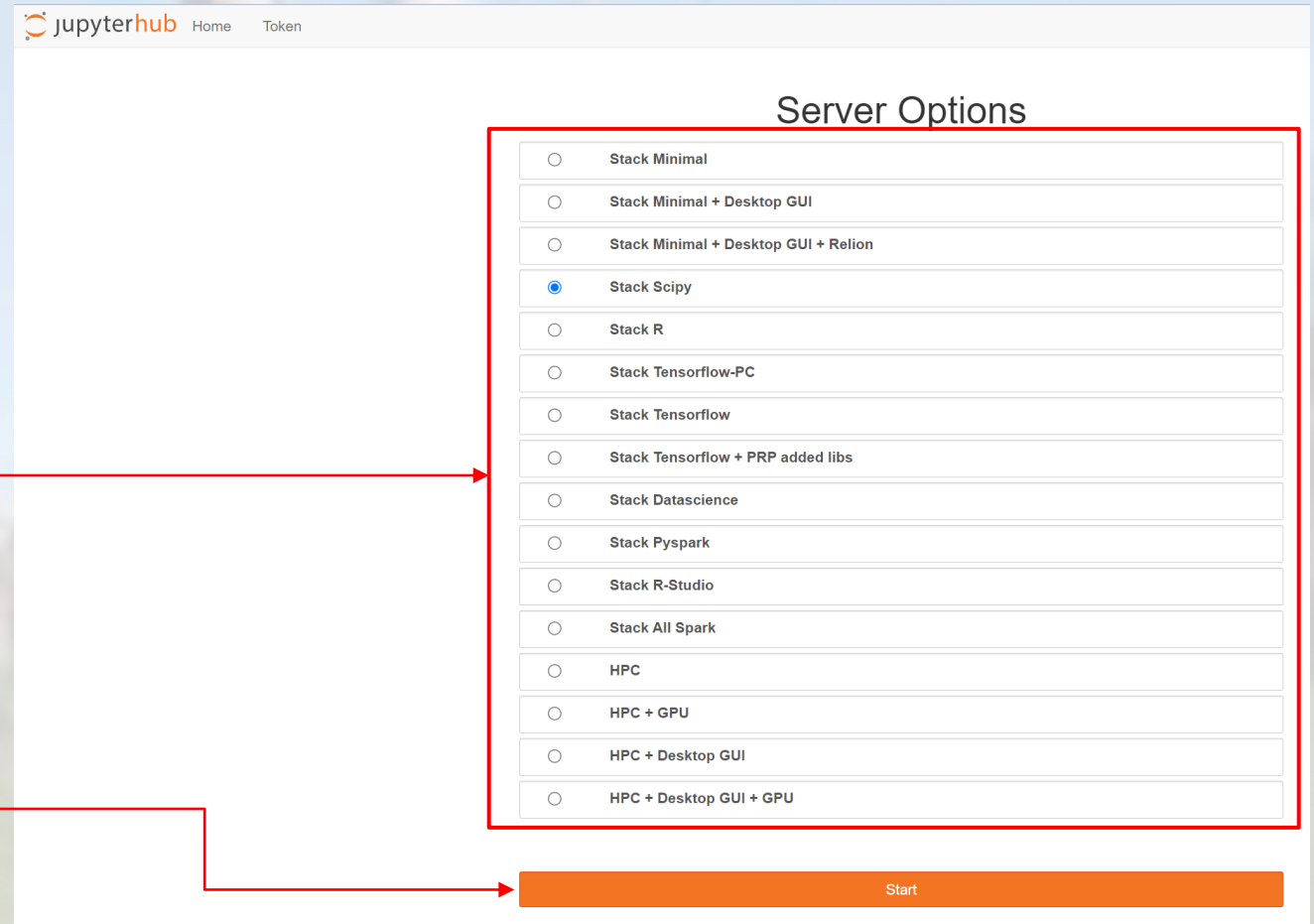
# Jupyter User Interface (UI) in Nautilus

## pod spinning

- Each container contains a set of software and libraries pre-installed
- Any container can be spawn by any student who is a member of the namespace

List of containers

Press to spin up a pod



jupyterhub Home Token

### Server Options

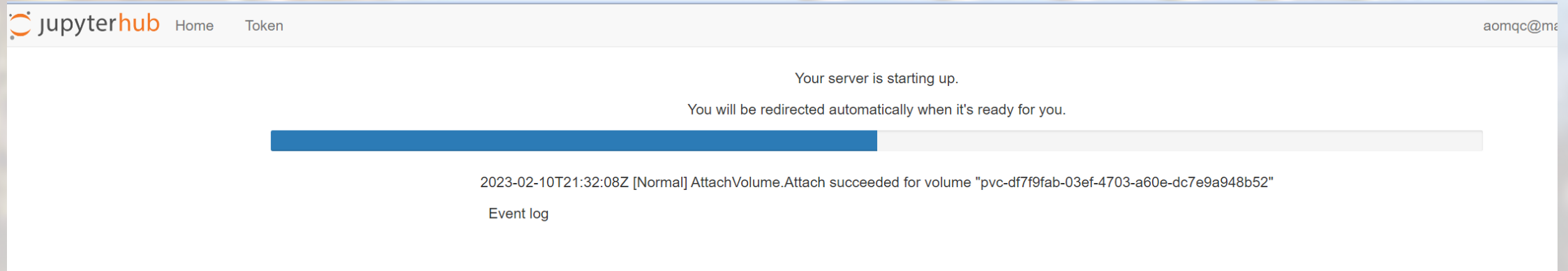
- ☐ Stack Minimal
- ☐ Stack Minimal + Desktop GUI
- ☐ Stack Minimal + Desktop GUI + Relion
- ☒ Stack Scipy
- ☐ Stack R
- ☐ Stack Tensorflow-PC
- ☐ Stack Tensorflow
- ☐ Stack Tensorflow + PRP added libs
- ☐ Stack Datascience
- ☐ Stack Pyspark
- ☐ Stack R-Studio
- ☐ Stack All Spark
- ☐ HPC
- ☐ HPC + GPU
- ☐ HPC + Desktop GUI
- ☐ HPC + Desktop GUI + GPU

Start



# Jupyter User Interface (UI) in Nautilus pod spinning

After pressing start the container will be spun up



It may take time depending on the size of the container and the internet connection

# Jupyter User Interface (UI) in Nautilus

## container elements

Upload files/folders

Create new folder

launch new terminal

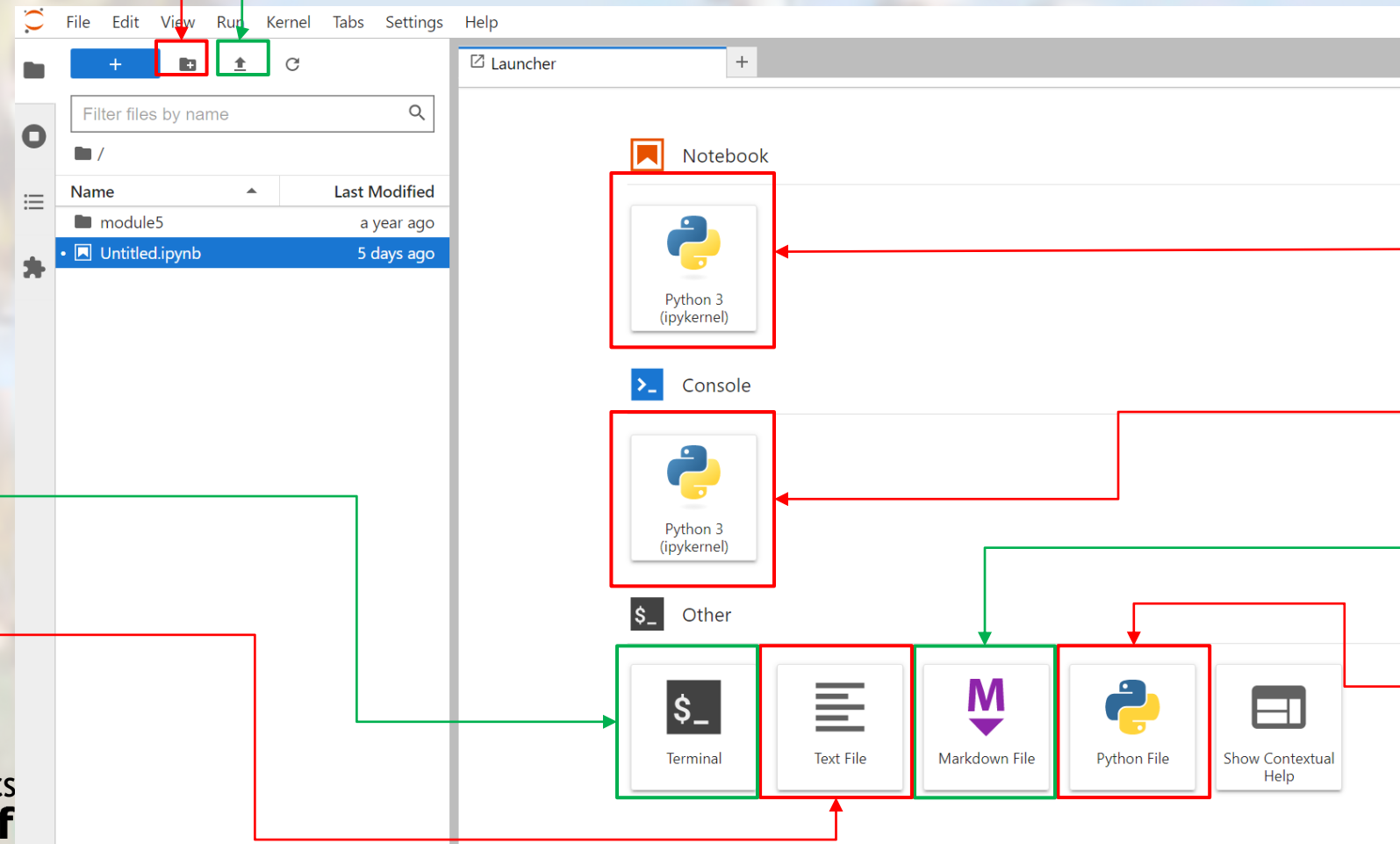
launch new text file

launch new jupyter notebook

launch new python console

launch new markdown file

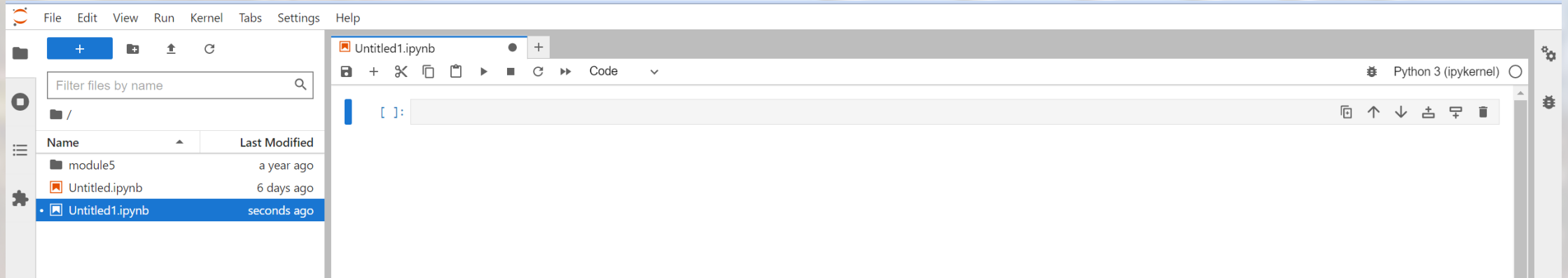
launch new python file





# Jupyter User Interface (UI) in Nautilus container elements

This is an example of jupyter notebook as described above from within the container



# Jupyter User Interface (UI) in Nautilus **container**

Can I make this?

How hard it is?

How to do it?

