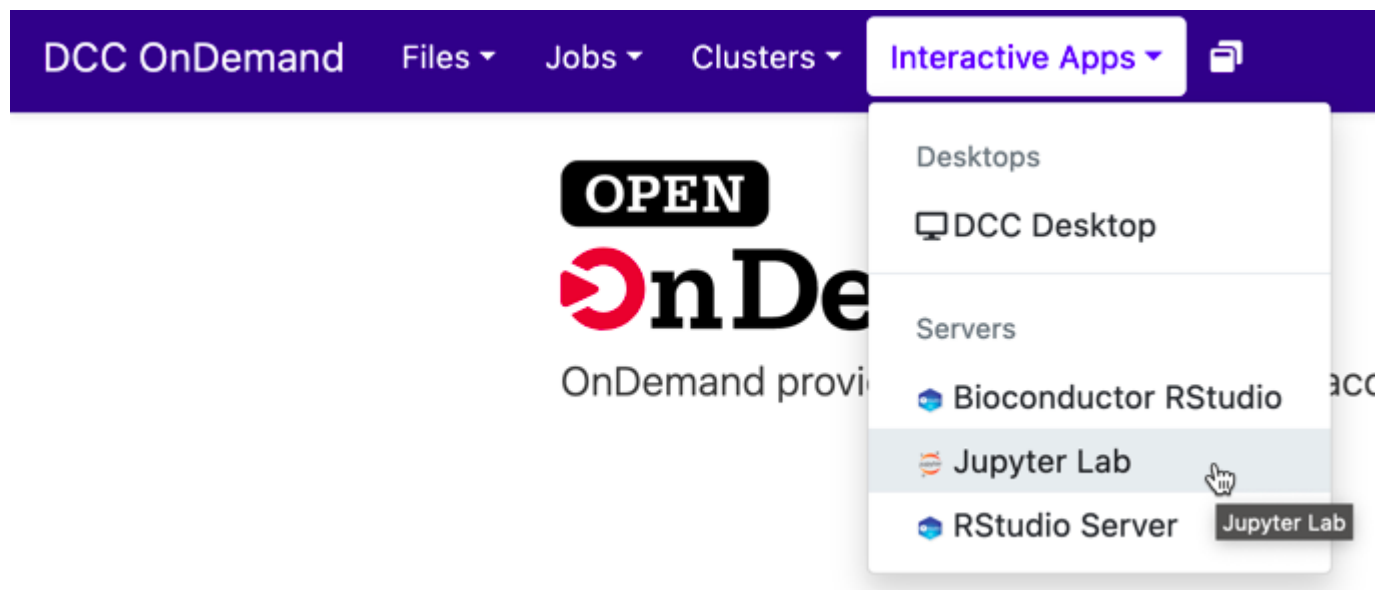


Using the Jupyter Lab server



1. Click on Interactive Apps in the top navigation menu
2. Click on Jupyter Lab

Launching a Jupyter Lab server

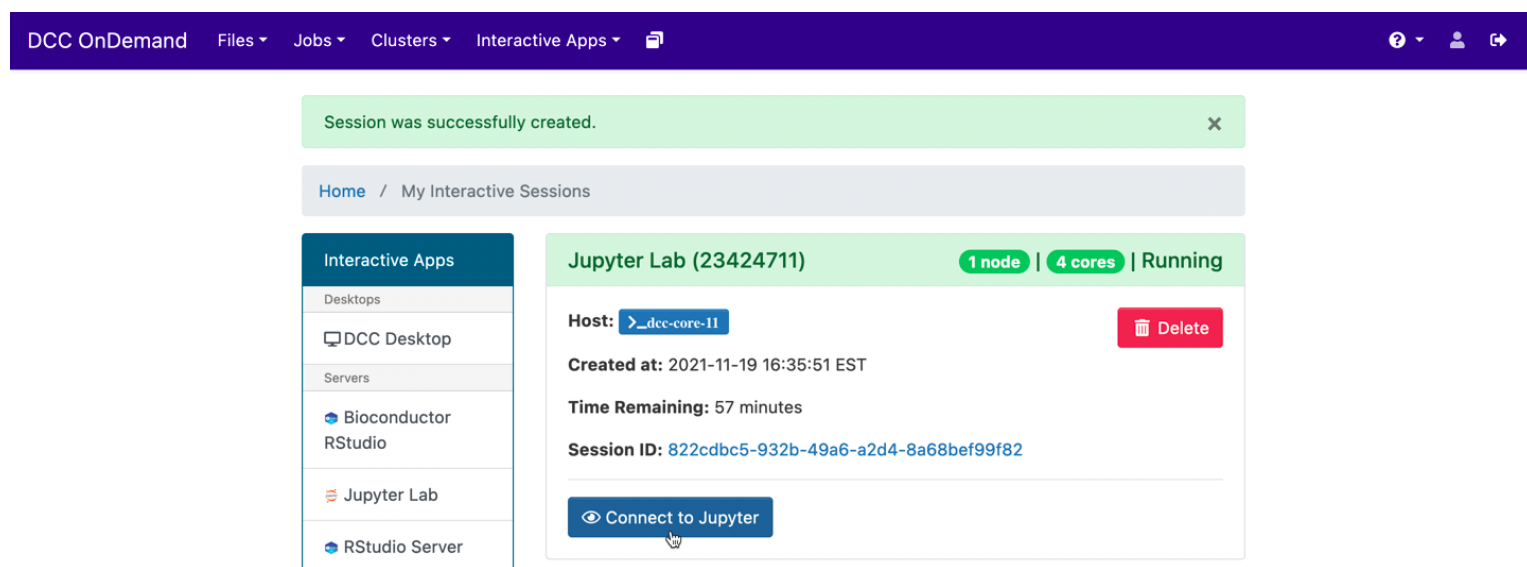
A screenshot of the 'Jupyter Lab' configuration page in the DCC OnDemand interface. The top navigation bar shows 'DCC OnDemand', 'Files', 'Jobs', 'Clusters', 'Interactive Apps', and 'My Interactive Sessions'. The page title is 'Jupyter Lab version: af68f87'. Below the title, it says 'This app will launch a Jupyter Lab server on one or more nodes.' The form includes fields for 'Lab account' (with a placeholder '(your lab account here, see step #1)'), 'Partition' (set to 'common'), 'Number of hours' (set to '1'), 'Number of nodes' (set to '1'), 'Memory requested (Gb)' (set to '16'), and 'CPUs per task' (set to '4'). There is a text area for 'Any additional Slurm parameters e.g. -w dcc-core-01' and a checkbox for 'I would like to receive an email when the session starts'. A blue 'Launch' button is at the bottom. A footnote states: '* The Jupyter Lab session data for this session can be accessed under the [data root directory](#).'

1. For lab account, input the name of your DCC group (list of all groups can be found [here](#))
2. Under partition, type in "common", or if your lab has dedicated resources, add your own partition. You may also use common-gpu or scavenger-gpu if you need GPU resources. (remember, if a GPU is not available you may not get your interactive session in a timely fashion)
3. Input the number of hours you would like the server to remain active (please try to remain small, as it will continue

running even if you are not using it)

4. Input the desired amount of nodes, memory, and CPUs (try to start small with only a few gigabytes of memory and cores)
5. Enter any additional Slurm parameters (this is optional). If you would like to request a GPU, make sure the partition you have selected has GPU resources, and add `--gres=gpu:1` under "additional slurm parameters"
6. Press the blue "Launch" button on the bottom of the page

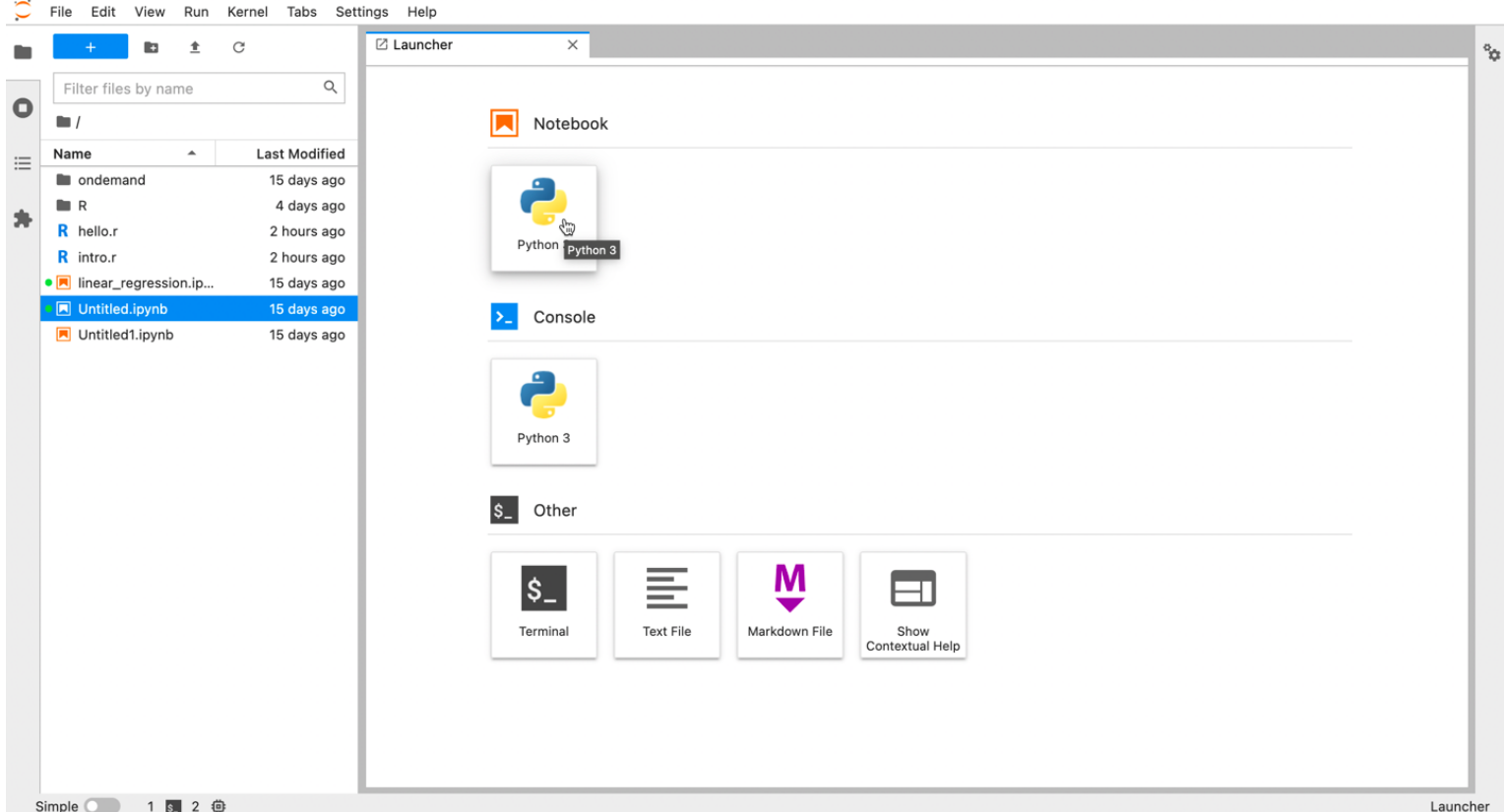
Connecting to Jupyter



The screenshot shows the DCC OnDemand web interface. At the top is a dark purple navigation bar with the text "DCC OnDemand" and several dropdown menus: "Files", "Jobs", "Clusters", and "Interactive Apps". On the right side of the bar are icons for help, user profile, and a share icon. Below the navigation bar is a green notification banner that says "Session was successfully created." with a close button. Underneath is a breadcrumb trail: "Home / My Interactive Sessions". On the left is a sidebar titled "Interactive Apps" with two sections: "Desktops" containing "DCC Desktop" and "Servers" containing "Bioconductor RStudio", "Jupyter Lab", and "RStudio Server". The "Jupyter Lab" option is highlighted. The main content area shows details for a "Jupyter Lab (23424711)" session. It has a green header bar indicating "1 node | 4 cores | Running". Below this, it shows the host as ">_dcc-core-11" with a "Delete" button, the creation time as "2021-11-19 16:35:51 EST", the time remaining as "57 minutes", and the session ID as "822cdb5-932b-49a6-a2d4-8a68bef99f82". At the bottom of the session details is a blue button labeled "Connect to Jupyter" with an eye icon.

1. After pressing the blue "launch" button, your job will be queued to start a Jupyter Lab server. You should see this automatically
2. Wait a few seconds to a few minutes for the Jupyter Lab server to finish launching. The status will automatically change from "Starting" to "Running" when the server is ready
3. Press the blue "Connect to Jupyter" button when the server is running to access your Jupyter Lab server

Using Jupyter Lab



1. Click on Python3 under "Notebook" to create a new .ipynb notebook
2. Alternatively, upload your existing .ipynb files using the pane on the left-hand side
3. You can drag-and-drop or press the upward facing arrow to upload files. Note: the Jupyter session defaults to file browsing in your home directory. To browse to your group directory, first (in a terminal window) create a symbolic link in your home directory. `ln -s /hpc/group/<groupname> <groupname>`
4. When you are ready, you can run your Jupyter Notebook by pressing the run button at the top of the .ipynb file window

