Module 1.1 ATMOS 5340: Environmental Programming and Statistics John Horel

## Accessing a Linux Terminal Window Using CHPC's Open OnDemand

The objective of this document is to get you familiar with CHPC's Open OnDemand service, which is a web portal that provides *remote access* to CHPC file systems and computing resources. Using Open OnDemand, we can view, edit, upload and download files, run GUI applications in a Linux



environment by simply using our web browser! This service eliminates the need for us to install programs onto our computers, and therefore eliminates issue associated with system dependencies and so on!

To start, open your web browser on either your personal computer or computer lab desktop and go to the following webpage: <u>https://ondemand-class.chpc.utah.edu/</u>

Upon clicking this link, Open OnDemand will ask for your University of Utah Login credentials (uID + password). If you have provided the correct credentials, your web browser should take you to the following webpage:



Click on the "Basic Interactive Desktop" and you should see:

Classes	Basic Interactive Desktop version: 6acab92	
Atmospheric Sciences	This app will launch an interactive desktop on one compute node. You will have fu access to the resources these nodes provide. This is analogous to an interactive batch job.	
MATMOS Synoptic		
ioinformatics	Cluster	
MIB2020	notchnok	
hemical Engineering	потспреак Select the cluster or Frisco node to create this session on. If you select frisco please ignore all the entries below.	
S CHEN Jupyter		
S CHEN2450	Number of hours	
Geography	8	
GEOG5670 desktop	Maximum wall time on notchpeak-shared-short is 8 hours, general nodes 72 hours, owner nodes 14 days.	
Interactive Appe	Number of cores	
	1	
Basic Interactive Desktop	Maximum number of CPU cores on notchpeak-shared-short is 16, see cluster help page for other cluster's node counts.	
<b>⊋</b> Desktop	Account	
Expert Interactive Desktop	notchpeak-shared-short	
DEs	Partition	
ANSYS Electronics Desktop	notchpeak-shared-short	
ANSYS Workbench	I would like to receive an email when the session starts	
Abagus	If you do not receive the email, check your <b>Profile</b> for correct address.	
	Launch	

Note: change the number of hours from 1 to at least 4, otherwise your session might be too short if you are

on CHPC more than 1 hour. Then click "Launch". You should see something like this but initially it will say "Queued". Be patient. When it says "Running" then click the blue button at the bottom

Basic Interactive Desktop (5017371)		1 node   1 core   Running		
Host: >_notch308.ipoib.int.chpc.utah.edu		💼 Delete		
Created at: 2022-07-30 13:46:08 MDT				
Time Remaining: 7 hours and 59 minutes				
Session ID: 0bf9bde2-ce00-46e9-8a22-cc43361ffae	29			
Compression	Image Quality			
0 (low) to 9 (high)	0 (low) to 9 (high)			
Launch Basic Interactive Desktop		View Only (Share-able Link)		

## You should see then:



This is a Graphical User Interface (GUI) common to Linux, Macs, Windows, etc. Explorse a bit by clicking the obvious options (Application Menu, etc).

Now, click on the black rectangle on the bottom- that is a "X-terminal" window.



Welcome to the 1980's! Most scientific computing then, and much even still now, relies on such X-terminal windows. We'll use this terminal window for learning a tiny bit about Linux.