

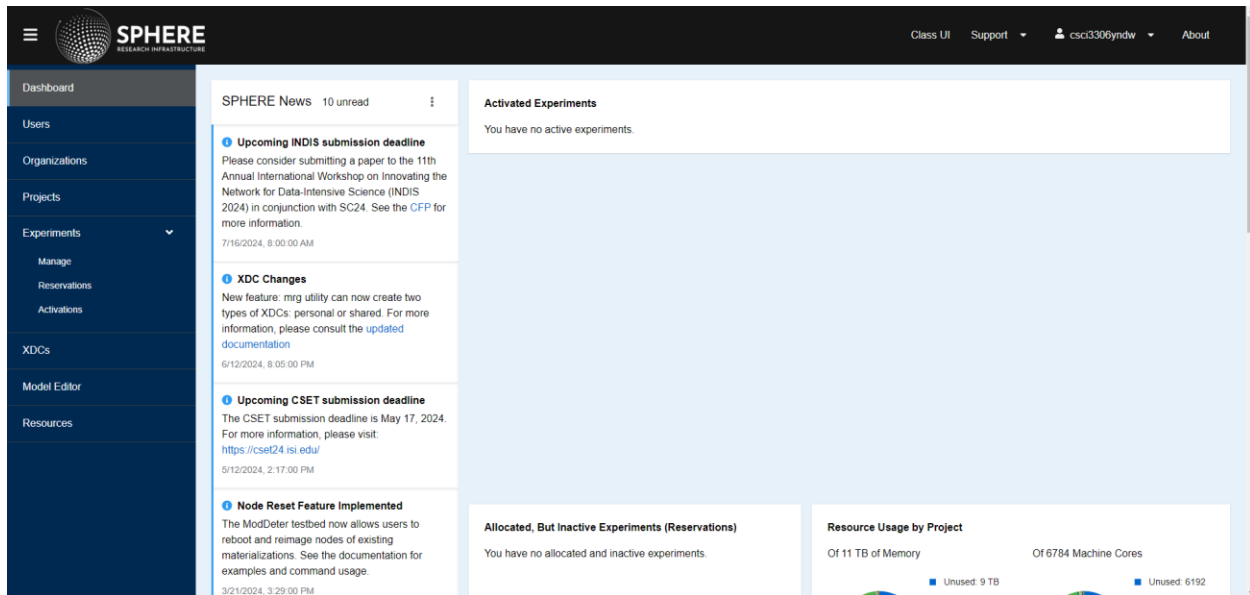
## Deterlab - Lab 1

Joshua Ludolf

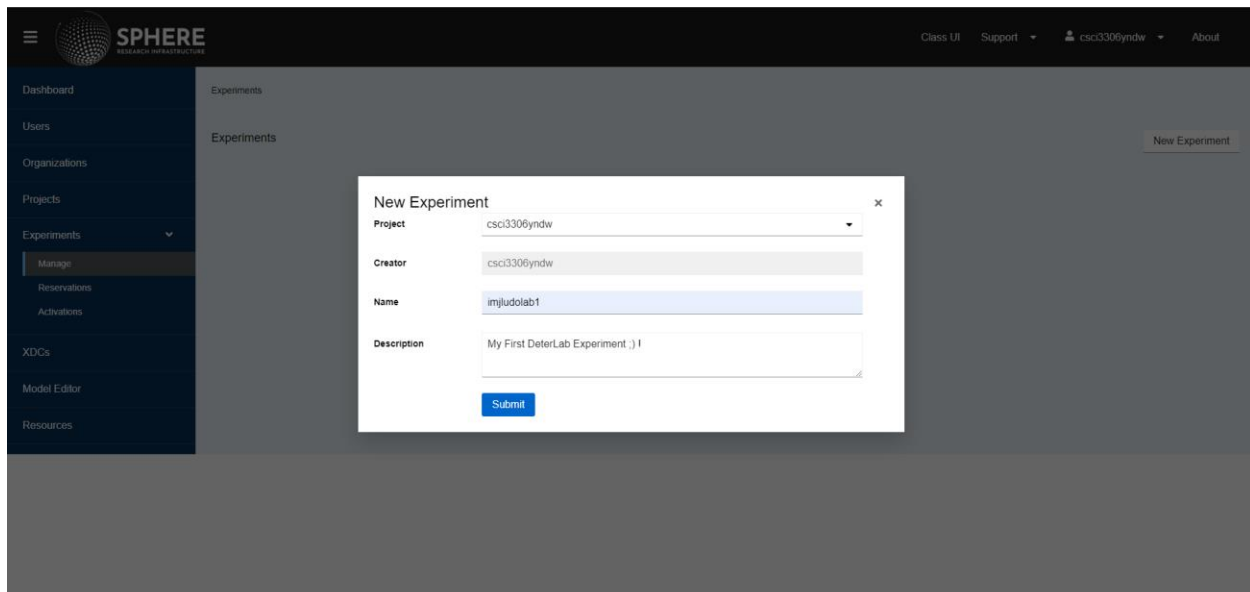
CSCI 4406\_60L

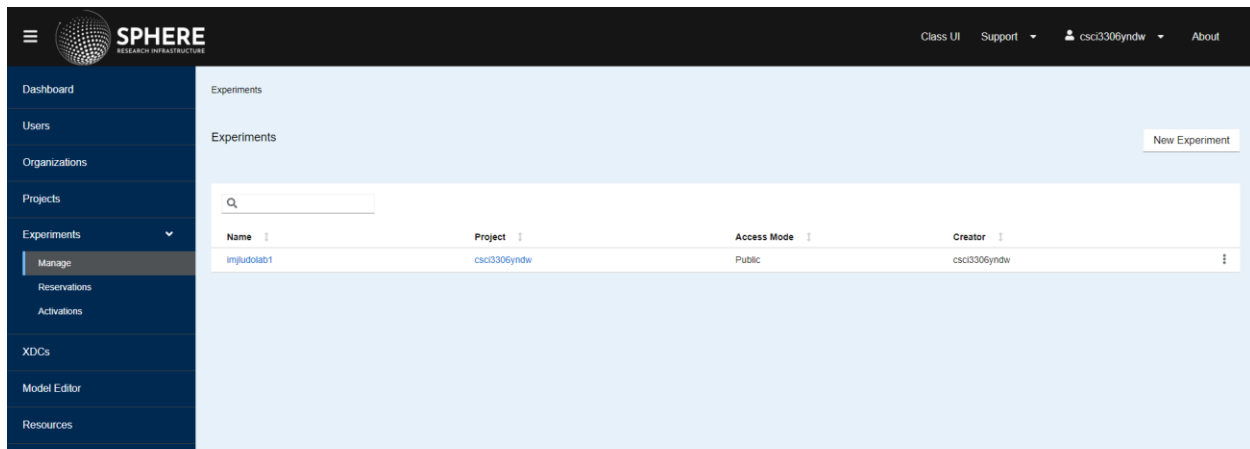
Computer Networks Lab

I logged into DeterLab with my given username and password:

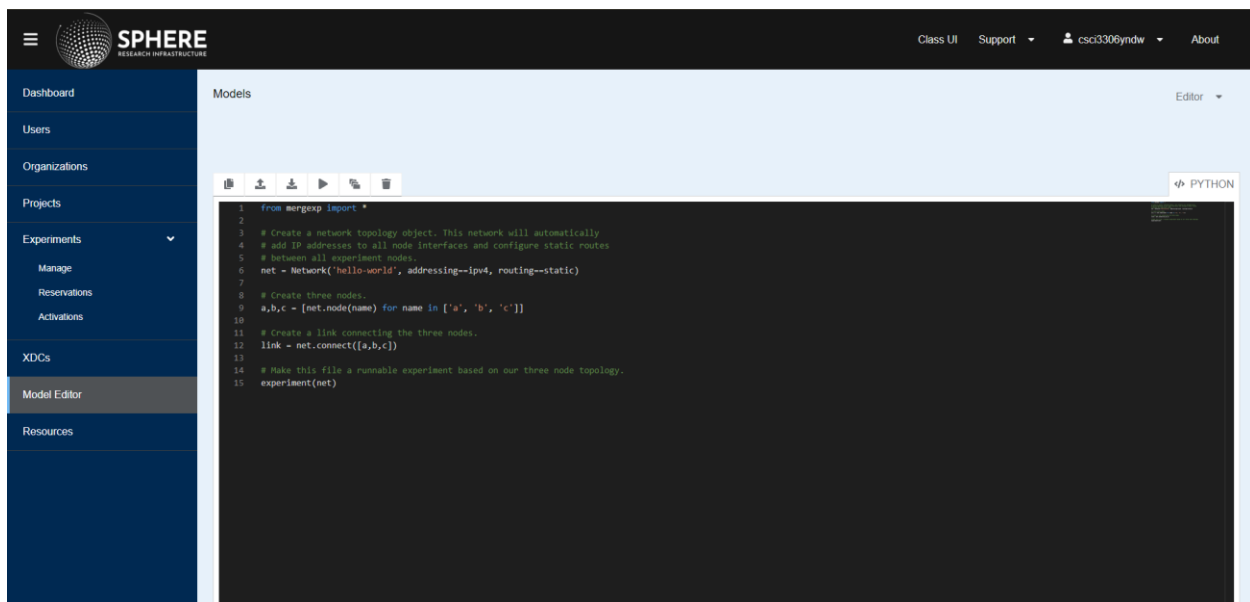


I then clicked on Experiments, selected Manage, and clicked on New Experiment:

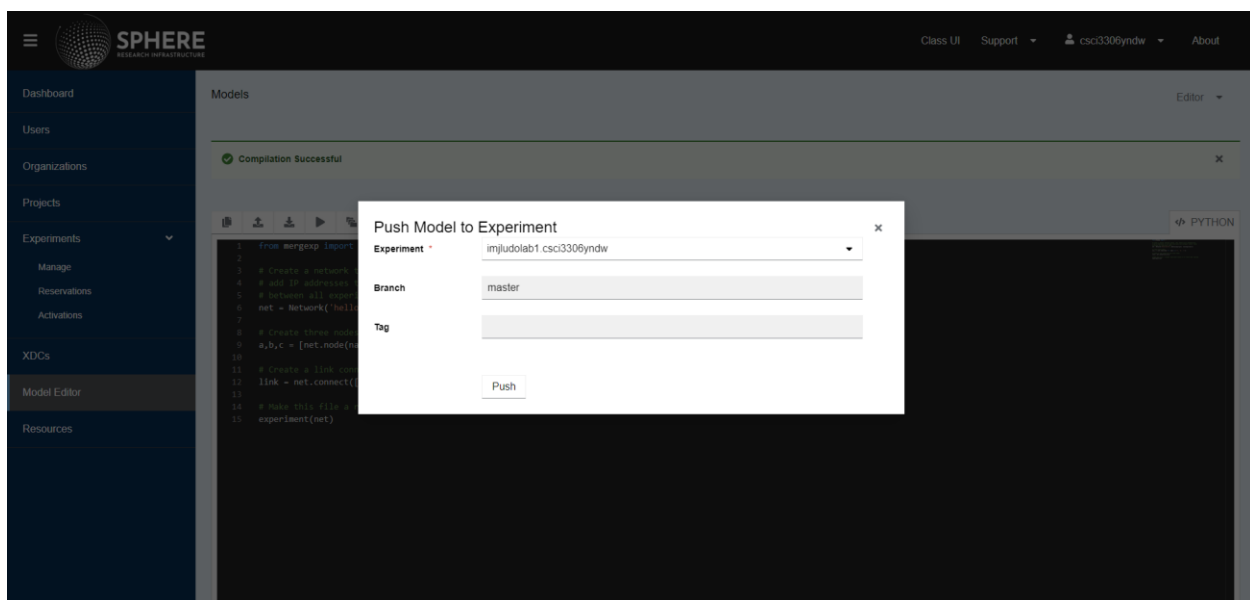
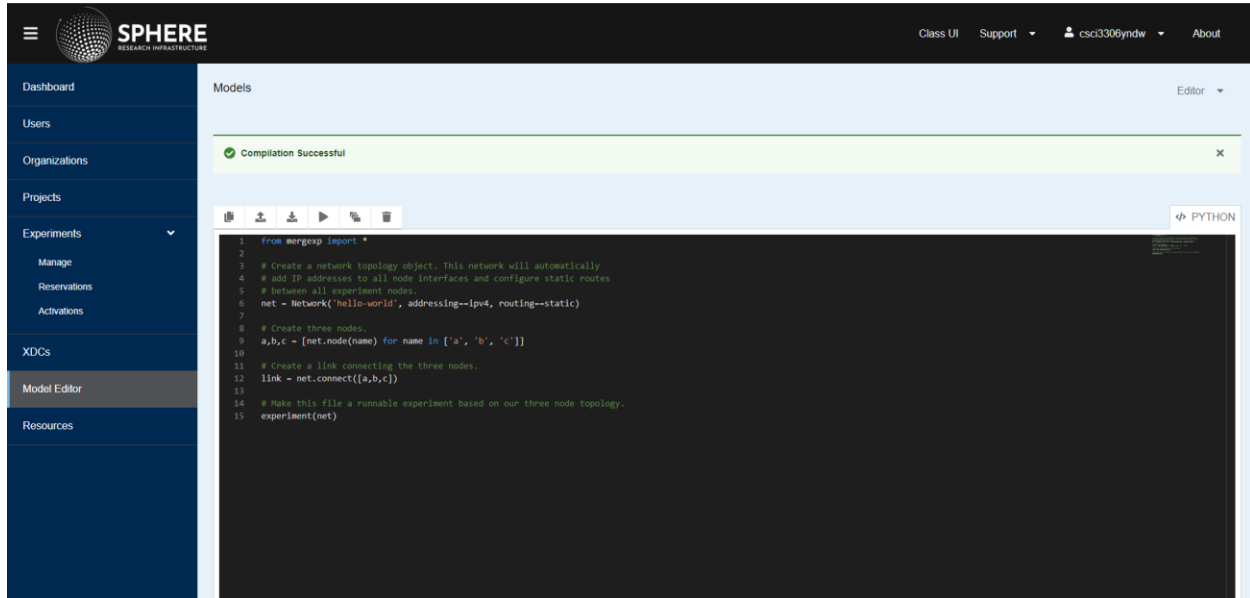




I then clicked on Model Editor, clicked on start from scratch, and copied the Hello World Web Interface Documentation:



I compile the code and push:



This is my topology:


**Compiled Topology**

**Revision Details**  
ID: hello-world

**Model View**  
☒ Nodes  
☐ Nodes & LANs  
☐ Nodes & Interfaces

**Topology View**  
☒ 2D  
☐ 3D

**Topology Display**  
Node Size: 3  
Font Scale: 20



Reserved the revision:

**SPHERE** RESEARCH INFRASTRUCTURE

Class UI Support csci3306yndw About

Dashboard  
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XDCs  
Model Editor  
Resources

Projects > csci3306yndw > Experiments > imjudolab1 > Revisions > 67a9fc449798045930436102a4536aa9fc90e57

Revision: csci3306yndwimj

**Topology** Model X

**Revision Details**  
ID: hello-world

**Model View**  
☒ Nodes  
☐ Nodes & LANs  
☐ Nodes & Interfaces

**Topology View**  
☒ 2D  
☐ 3D

**Topology Display**  
Node Size: 3  
Font Scale: 20

**Reserve Revision**


A Reservation is a request to exclusively reserve resources for an experiment. This is an asynchronous process. Check the reservations listing on the dashboard to see the status of your reservation. If the reservation fails, it is likely that your model is requesting resources that are not currently available. In that case, relinquish the reservation and try again at a later time.

**Project**  
csci3306yndw

**Experiment**  
imjudolab1

**Reservation Name**  
helloworldjoshualudolf

Submit



I clicked on the three dots on the right and selected Activate:

[View All](#)

Reservation	Experi...	Project	Creator	Created	Expires	Revision	Succeeded	Nodes	Links
helloworldjoshualudolf	imjduolab1	csc3306jndw	csc3306jndw	8/27/2024, 6:27:41 PM	9/3/2024, 6:27:41 PM	67af5c44	Yes	3	2



Attaching materialization to my XDC:

SPHERE

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XDCs

Experiment Development Containers

New XDC

Q

Name	Project	Type	Attached	URL	SSH Name	Creator	Memory...	CPU Limit	Image
csc3306yndw	csc3306yndw	shared		Jupyter	csc3306yndw-csc3306yndw	csc3306yndw	2	2	xdc-base v1.3.9

Attach to Materialization

XDCcsc3306yndw-csc3306yndw

Materializationhelloworldjoshualudolf.imjludolab1.csc3306yndw

Attach

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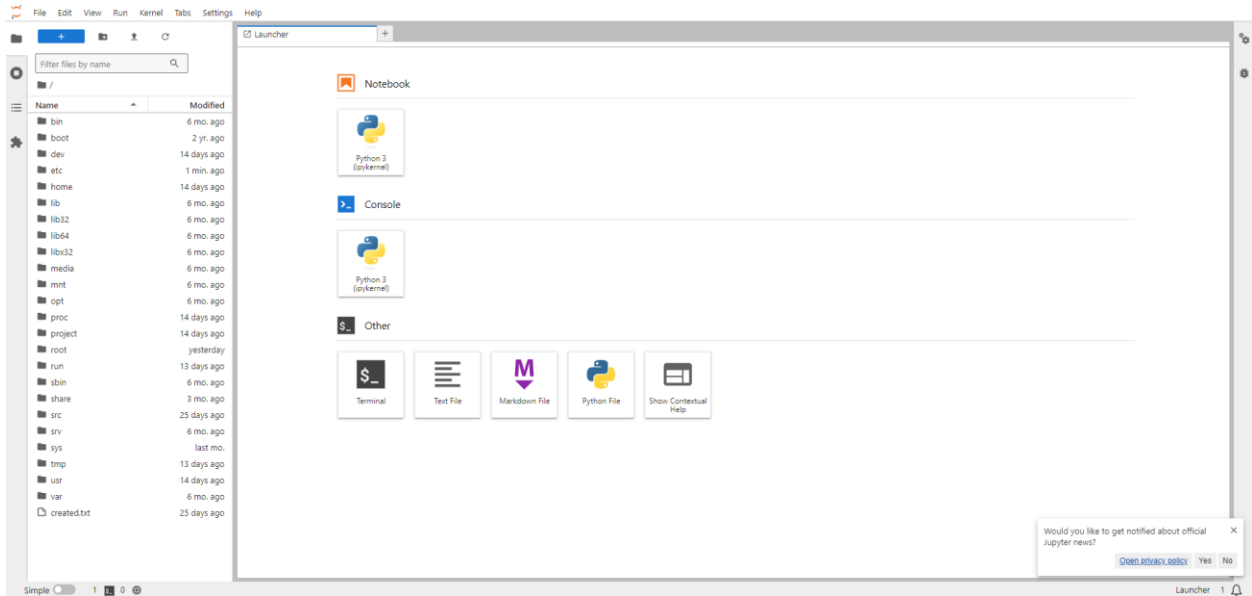
Experiment Development Containers

New XDC

Q

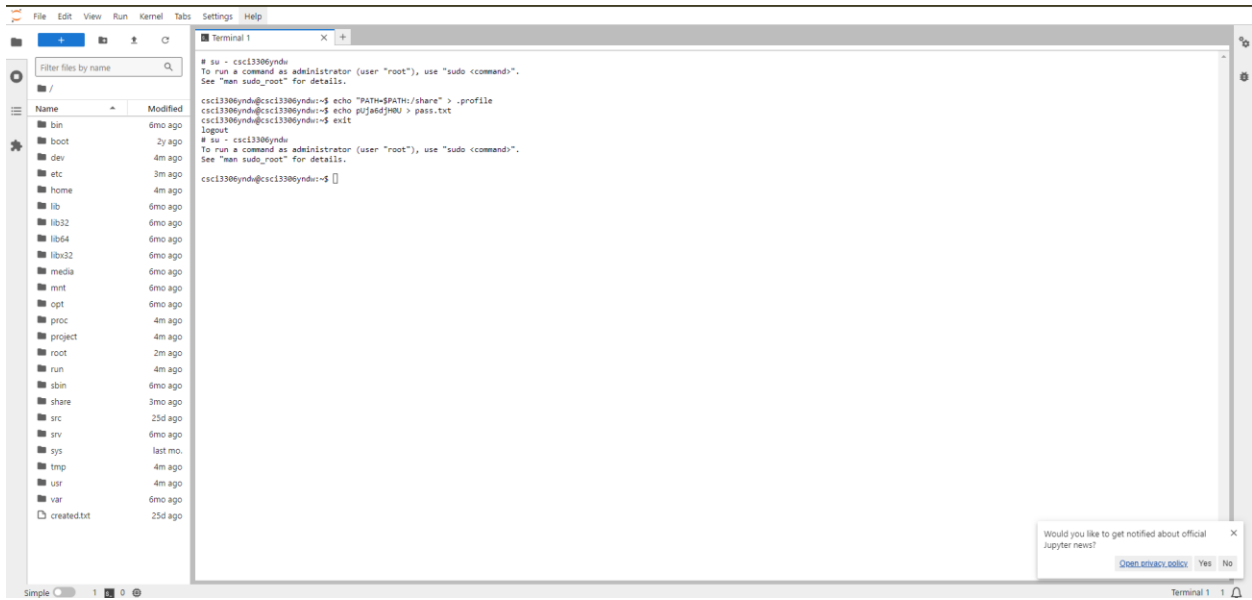
Name	Project	Type	Attached	URL	SSH Name	Creator	Memory...	CPU Limit	Image
csc3306yndw	csc3306yndw	shared		Jupyter	csc3306yndw-csc3306yndw	csc3306yndw	2	2	xdc-base v1.3.9

I clicked on the Jupyter URL and selected terminal (it says terminal 2 as I didn't document first time):





Finally, I typed commands to save username and password for the project:



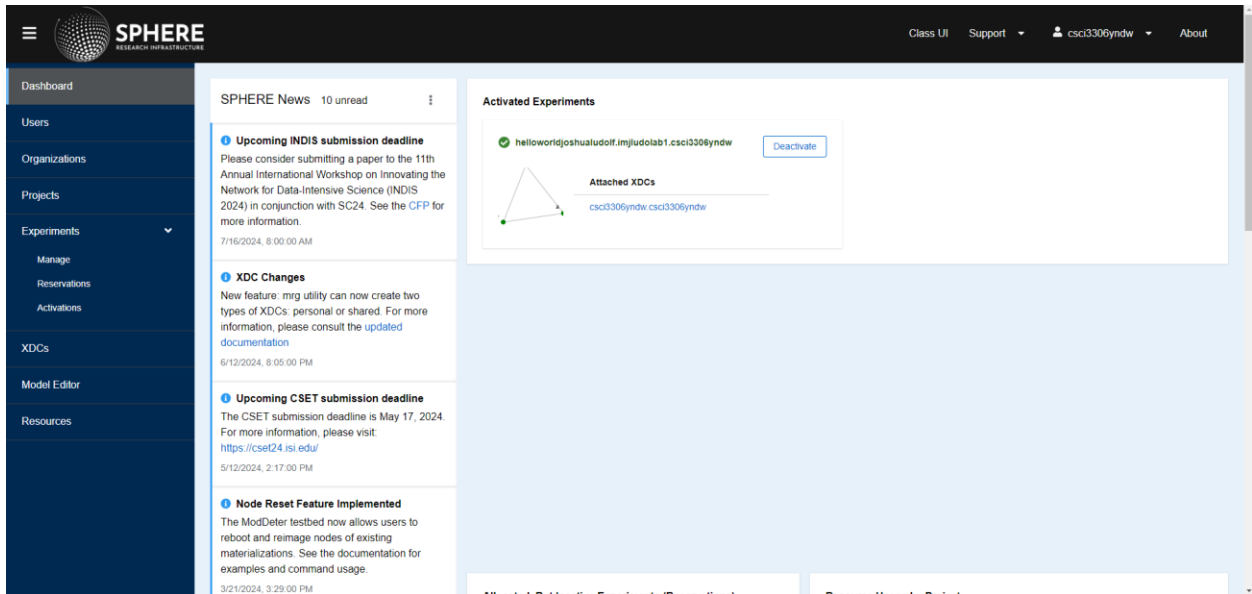
The screenshot shows a terminal window with a file explorer on the left and a terminal pane on the right. The file explorer lists directories like bin, boot, dev, etc, home, lib, lib32, lib64, libx32, media, mnt, opt, proc, project, root, run, sbin, share, src, srv, sys, tmp, usr, var, and created.txt. The terminal pane shows the following commands and output:

```
# su - csci3306yndw
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

csci3306yndw@csci3306yndw:~$ echo "$PATH:$PATH:/share" > .profile
csci3306yndw@csci3306yndw:~$ echo puja6djh0u > pass.txt
csci3306yndw@csci3306yndw:~$ exit
logout
# su - csci3306yndw
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

csci3306yndw@csci3306yndw:~$
```

This is my Dashboard now:



The screenshot shows the SPHERE dashboard interface. The top navigation bar includes a menu icon, the SPHERE logo, and links for Class UI, Support, csci3306yndw, and About. The left sidebar contains a navigation menu with items: Dashboard, Users, Organizations, Projects, Experiments, Manage, Reservations, Activations, XDCs, Model Editor, and Resources. The main content area is divided into two columns. The left column contains a 'SPHERE News' section with four items: 'Upcoming INDIS submission deadline', 'XDC Changes', 'Upcoming CSET submission deadline', and 'Node Reset Feature Implemented'. The right column contains an 'Activated Experiments' section with a single experiment 'helloworldjoshualudolf.imjudolab1.csci3306yndw' and a 'Deactivate' button. Below the experiments section, there are two sections: 'Affected Out-Of-Tree Experiments (Exceptions)' and 'Resource Usage by Experiment'.