



Student User Guide

Cyber Security Virtual Teaching Lab

Document History

Date	Version	Name	Notes
22/08/2019	1.0	ChrisCooke (IT Services)	InitialRelease

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Introduction

This document provides information and instructions relating to the Cyber Security teaching virtual lab environments and is scoped for the student users.

The virtual lab environment is accessed by web browser only from the nominated computing labs for the course(s).

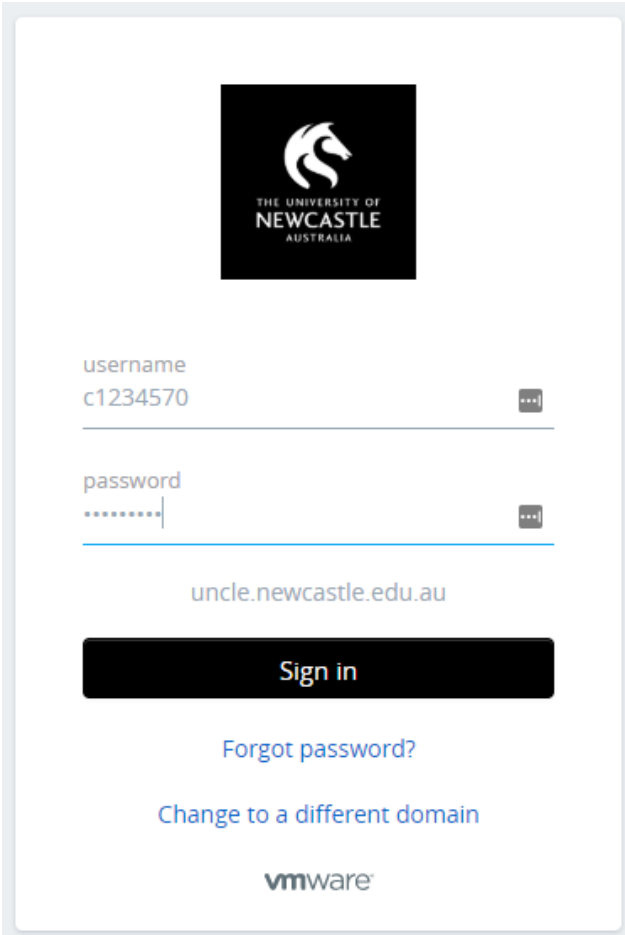
Virtual machines provisioned within your environment are able to communicate with each, but you cannot communicate with other students' machines, nor can they to you.

Login to Web Portal

1. In a web browser (Firefox recommended), open the following URL:

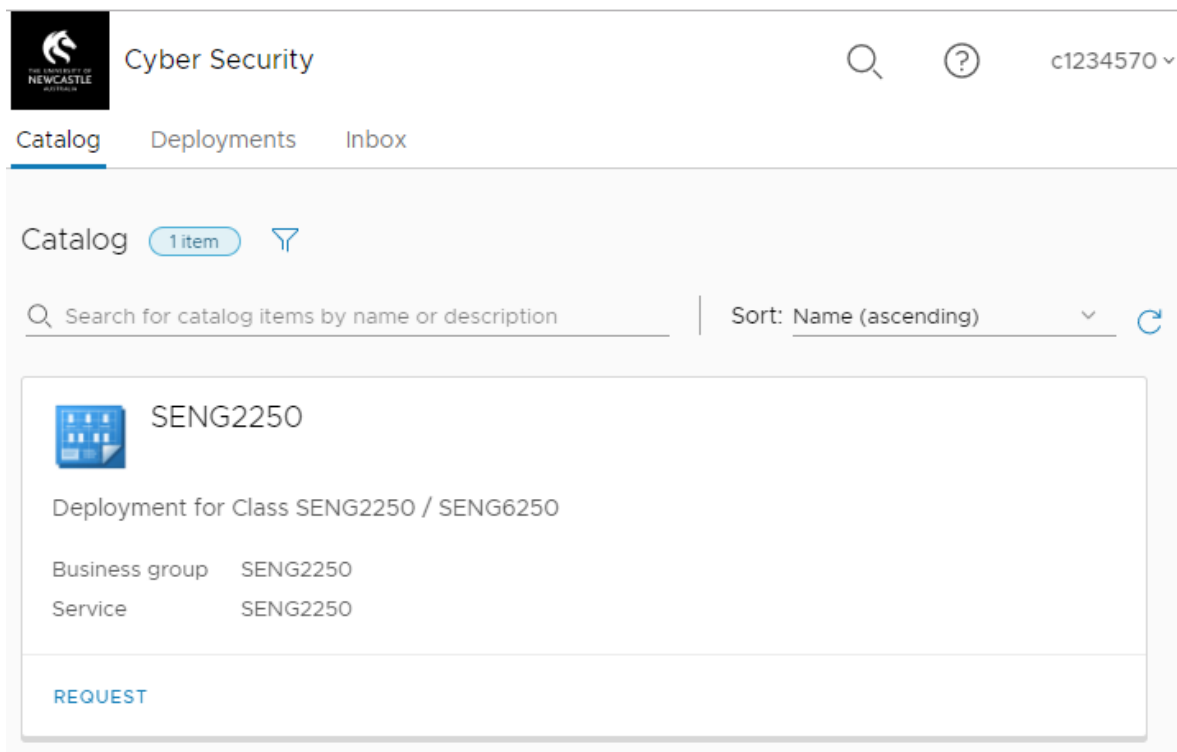
<https://cybersec-vra.newcastle.edu.au/vcac/org/cybersec>

2. Enter your student account username and password, then click "Sign in".

A screenshot of the login portal for The University of Newcastle. At the top center is the university's logo, which features a stylized white horse head on a black square, with the text "THE UNIVERSITY OF NEWCASTLE AUSTRALIA" below it. Below the logo are two input fields. The first is labeled "username" and contains the text "c1234570". The second is labeled "password" and contains a series of dots. To the right of each input field is a small icon with three dots. Below the password field, the text "uncle.newcastle.edu.au" is displayed. A large black button with the text "Sign in" in white is positioned below the domain name. Underneath the button are two links: "Forgot password?" and "Change to a different domain", both in blue text. At the bottom center of the form is the VMware logo.

Provision Lab Environment


1. Once logged in you will be presented with the “Catalog” page. This is where you can self-provision the lab environment for the course(s) you are entitled to.



2. To provision your teaching lab virtual machines, click the “Request” link in the required catalog item.
3. The following request page will be displayed. There are no configurable items, so click “SUBMIT” to provision the lab.

Note:

You are only entitled to provision one instance of the virtual lab environment per course available. Attempting to provision more than this will result in errors during the provisioning.

 Cyber Security

Q ? c1234570 v

Catalog Deployments Inbox

SENG2250 | Business group SENG2250 v

This deployment will deploy a total of 3 Ubuntu machines and a Single Windows machine.

Deployment Name * SENG2250-c1234570-System-N ⓘ


courseName SENG2250

SUBMIT CANCEL

4. You will now be taken to the “Deployments” page where you can view the progress of the lab provisioning.

Note:

The provisioning process may take up to 15mins to complete.


 Cyber Security

Q ? c1234570 v

Catalog Deployments Inbox

Deployments 1 item

Q Search for deployments by name, description, IP address, resource name or machine status | Sort: Created Date (descending) v ↻

	SENG2250 Deployment for Class SENG2250 / SE... Owner Temp One Business group SENG2250	#1085 - Provision SENG2250 - In Progress 3%	CANCEL 0 minutes since submitted
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Managing Your Virtual Lab

Once your virtual lab has provisioned, you can manage and login to the virtual machines.

On the “Deployments” page, you will see a list of your currently deployed labs. On each item you will see a list of the Virtual Machines, their IP addresses and power state.

Note:

There is no DNS name resolution within your lab environment, so machine-to-machine communication is done via IP address.



Cyber Security

Q

?

c1234570

Catalog

Deployments

Inbox


Deployments

1 item

Q

Search for deployments by name, description, IP address, resource name or machine status

Sort: Created Date (descending)




SENG2250-c1234570-System-N...


Deployment for Class SENG2250 / SENG6250


OwnerTemp One


Business groupSENG2250


6 Resources


 StudentNetwork

 ubuntu1-000004

 ubuntu2-000004

 ubuntu3-000004

 vRA-AppIsolatio...

 windows-000004

HIDE

Created 11 minut...

▶ On

▶ On

▶ On

▶ On

▶ On

Never expires

10.99.16.13

10.99.16.11

10.99.16.10

10.99.16.12

ACTIONS

Managing Virtual Lab/Machine Power State

You have the ability to power on and off all the virtual machines in your lab environment from the web portal.

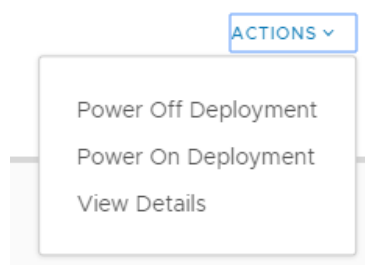
IMPORTANT:

DO NOT power off virtual machines from within the VM Operating System. This will cause issues when the automatic power-off tasks run at the completion of the lab.

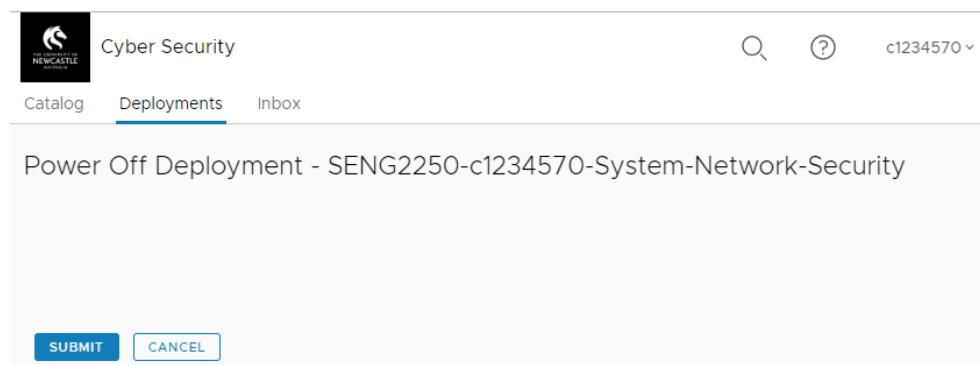
1. Click the “Actions” drop down link on the right of your deployment.
2. Select the required power option.

Note:

This will perform the power action on **ALL** virtual machines in your lab.



3. You will be taken to a page to confirm the action. Click the “SUBMIT” button to confirm.



Logging in to Virtual Machines

Note:

All virtual machines in your lab have an automatic power-off enabled. This is designed to conserve resources whilst labs aren't in session.

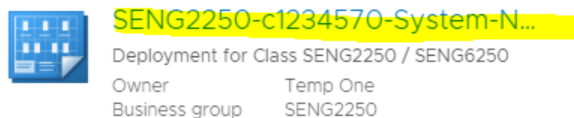
This will trigger 2.5 hours after they are powered on.

Logon Credentials:

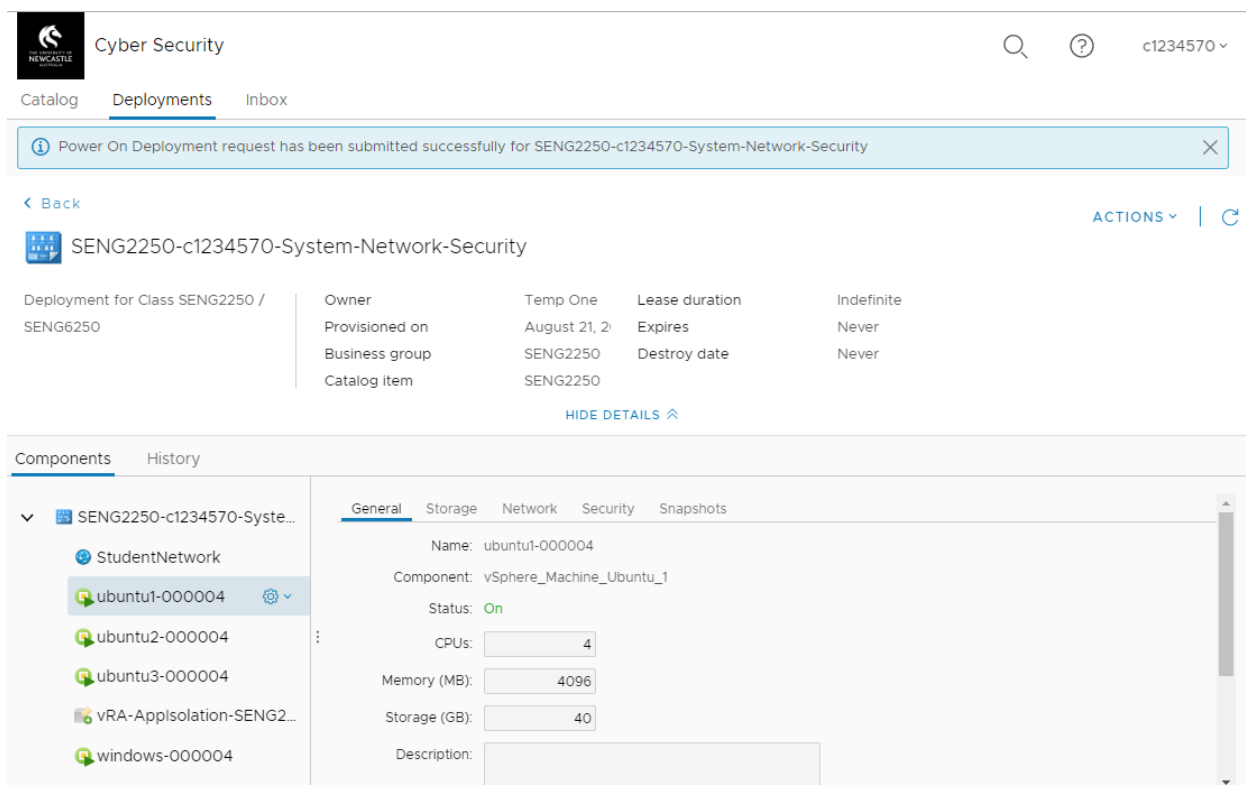
The logon credentials for all Virtual Machines in your lab are below.

Username:	student
Password:	\$tud3nt

1. Click the blue title link for your provisioned lab.



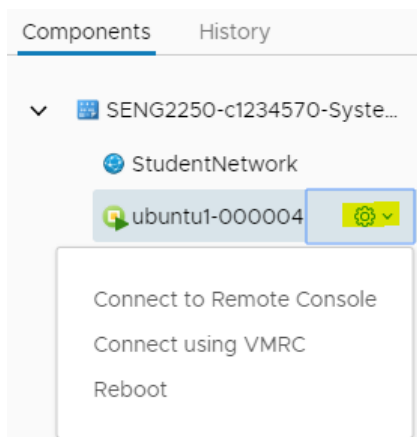
2. The "Deployment Details" page will load, providing more information on the lab environment.



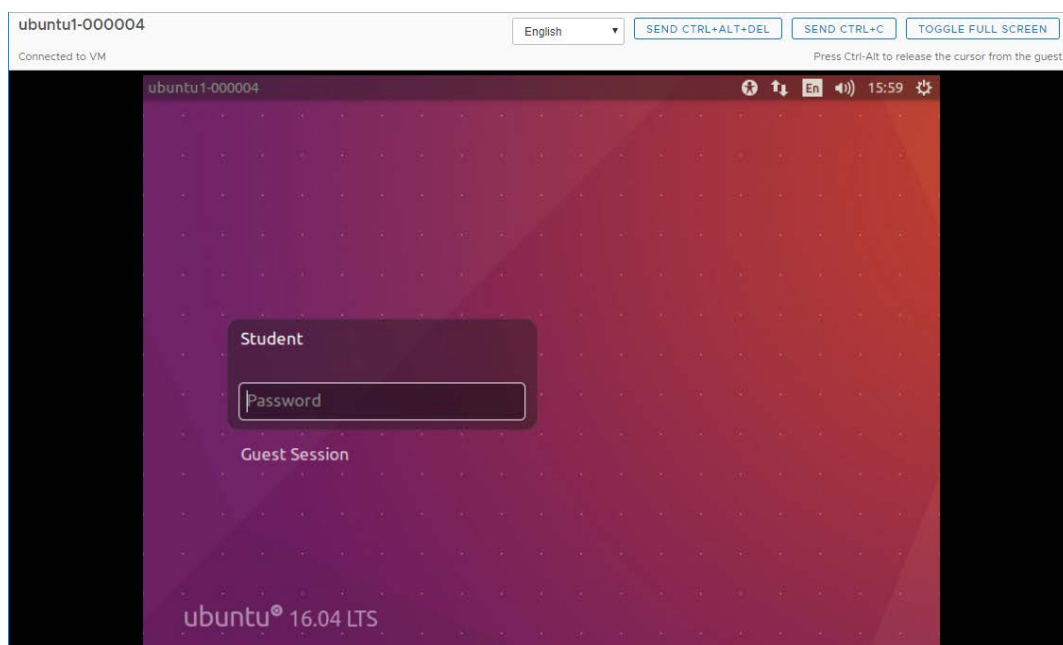
3. On the left, select the Virtual Machine you wish to logon to.
 - a. Click the gear icon to the right of the Virtual Machine name.

- b. Select the connection option you wish to use.

Connection Type	Description
Connect to Remote Console	Uses a new Web Browser tab to access the VM console.
Connect using VMRC	Uses the VMware Remote Console (VMRC) application to access the VM console.



- i. Connect to Remote Console:



- ii. Connect using VMRC:

1. A new browser tab will open. Click the “Connect to console using VMRC” link.

Connect using VMRC

You need to download and install VMware Remote Console (VMRC) to use advanced keyboard functionality.

[Download VMRC](#)

[Connect to console using VMRC](#)

2. Click the “Open VMware Remote Console” button on the pop-up.

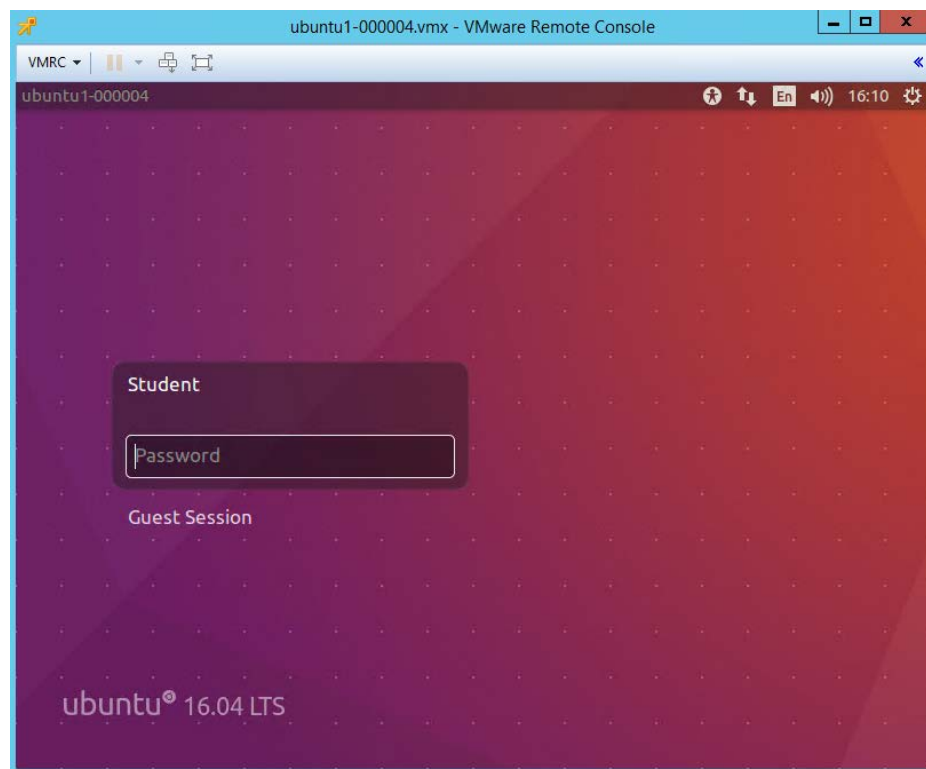
Open VMware Remote Console?

☐ Always open these types of links in the associated app

Open VMware Remote Console

Cancel

3. The VMRC application will open and connect to the VM.



- c. You can now login and use your virtual machine.

File Server Access

A File Server has been provisioned for access to additional data/files that the course tutors may wish to supply to you for use in the lab environment.

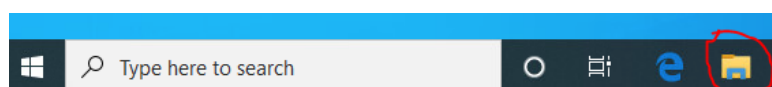
Access Credentials:

The access credentials for the File Server are below.

Username:	student
Password:	\$tud3nt

Windows VM

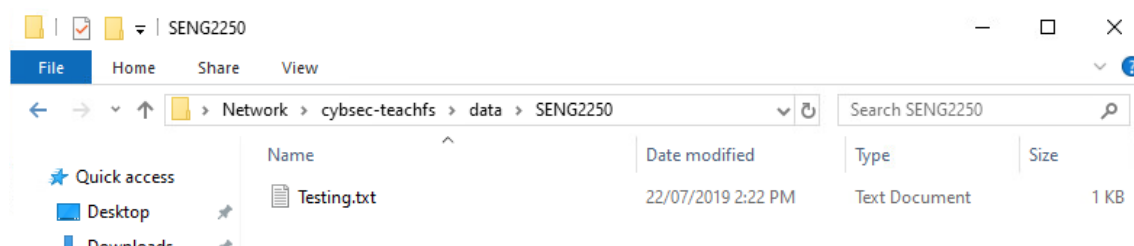
1. Open “File Explorer” from the task bar.



2. Browse to <\\cybsec-teachfs\data>



3. If prompted, enter the credentials listed above.
4. Access the files as specified by your tutor.

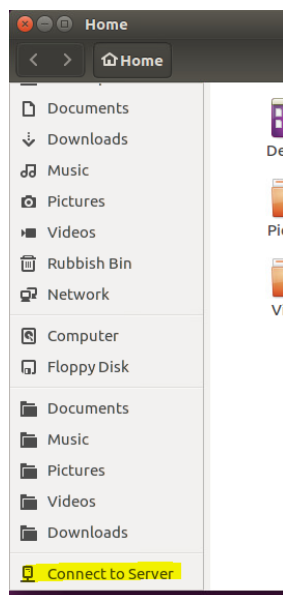


Ubuntu VM

1. Open “Files” from the dock on the left.

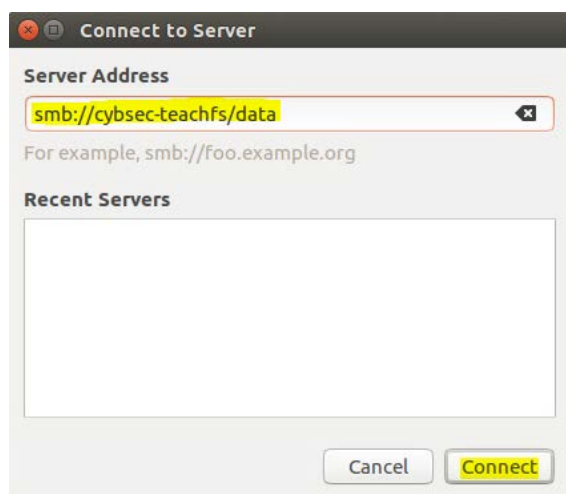


2. On the left, click “Connect to Server”

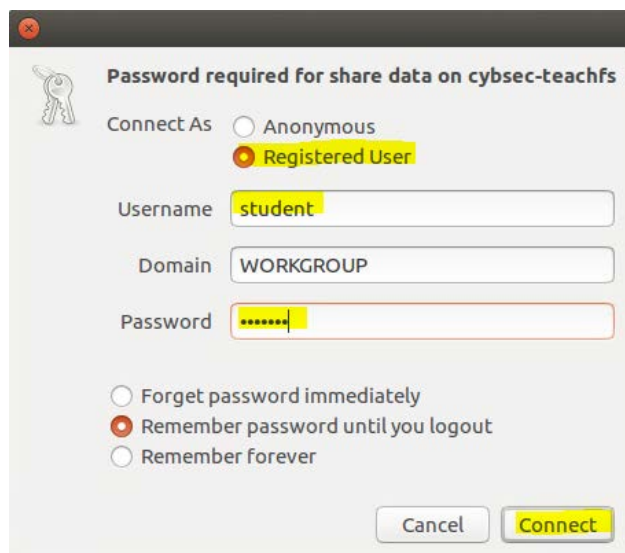


3. In the “Connect to Server” window enter the “Server Address” below and click “Connect”

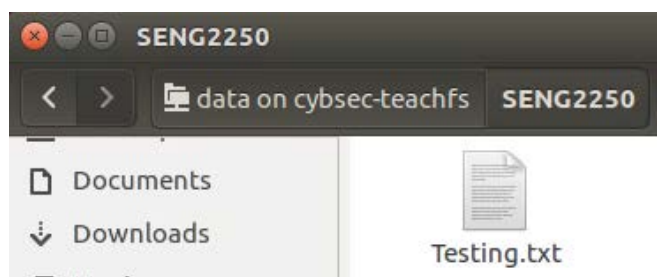
Server Address: smb://cybsec-teachfs/data



4. When prompted to authenticate, select “Registered User”, enter the credentials listed above (Leave the “Domain” as WORKGROUP) and click “Connect”.



5. Access the files as specified by your tutor.



Logging Out

When your lab is finished you need to log out of the web portal.

1. On the top-right of the page, select the drop-down menu for your username.
2. Select "Log Out"

