In some of the following practical sessions on COMP232 we will be using DeterLab: remotely accessible Cybersecurity experimental platform www.isi.deterlab.net. You should have received the instructions how to register with DeterLab. Once you have registered please read carefully Student Introduction to DETERLab: https://docs.deterlab.net/education/student-intro/

After that please find Core Guide under the tabs <UsingDeterLab> -> <Basic Guide(core)>

Please follow the Core Guide Steps 1-4. By doing that you will

- set up a basic experiment (a few nodes with network connections)
- swap it in (resources are allocated and the experiment started)
- explore web interface of DeterLab
- check that you are able to connect to created in the experiment nodes using ssh (you can first login to the department’s Linux system and then ssh to your DeterLab nodes from there).

The steps 1-4 are quite detailed. Some comments may be useful:

- The goal of the basic experiment is to create a particular setup with a few nodes and network connections between them;
- The basic experiment uses the script basic.ns available at the Guide web page. You would need to download this script and then use it for the experiment setup as described the Guide.
- Notice that by creating and submitting an experiment you don’t start it yet;
- The experiment starts when you choose to swap it in (resources are allocated);
- When you have done, you can choose either swap it out, meaning the resources are released, but your experiment setup is saved; or terminate, meaning all data about your experiment are deleted.
Notice that when you swap an experiment in during the allocation some resources may be not available. You can then modify your NS script and try again. For example, when tried swap in the experiment with recommended by the Guide `basic.ns` script, I have got a failure message:

No possible mapping for nodeC
OS 'emulab-ops/RHL-STD' (OS-208) does not run on this hardware type!

When RHL-OS is replaced with FBSD-STD the script executed successfully and the experiment swapped in.

Please don’t forget to swap out/terminate basic experiment once you finished your session.