# CLO - Cloud Computing and Big Data: Setup

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## Remote Teaching and Learning Logistics

Since this course will be held remotely, you will need to use your own system to run the lab exercises. I will be providing a Virtual Machine that can be run on your laptop or desktop computer.

You MUST have a minimum of 8Gb and a modern multi-core processor to run the VM. 16Gb would be better. I will be sending out instructions on how to install the VM and test it at least one week before the class. My preference is that you use **VirtualBox** ([https://www.virtualbox.org/](https://www.virtualbox.org/)) to run the VM although if anyone has an issue with that I can provide a VMWare image as well.

We will be conducting the class via Zoom and Slack (Zoom for video / audio conferencing, screen sharing; and Slack for chat and messaging). The instructions on how to sign into these systems will also be sent during the week before the class.

Big data programming makes significant use of a functional programming model called the **Lambda Calculus.** If you have never used lambdas and higher-order functions, please try the attached **Lambda Exercise.** It assumes you understand basic Python, so please do the Python exercises first if necessary.