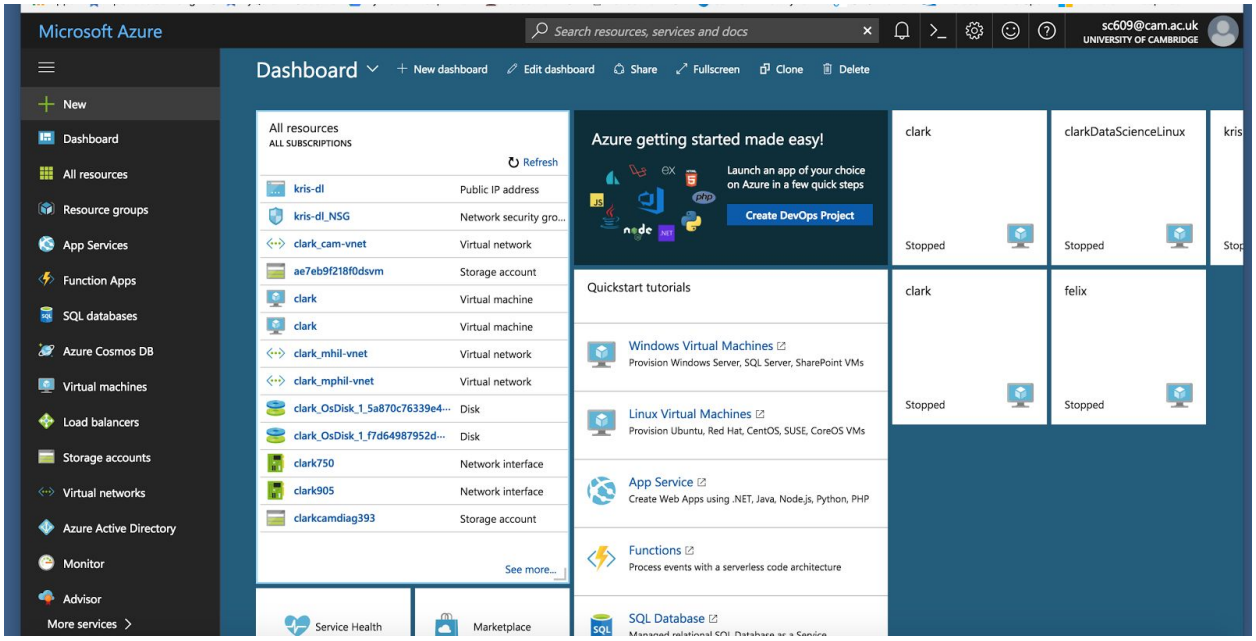
# How to Create an Individual Data Science VM

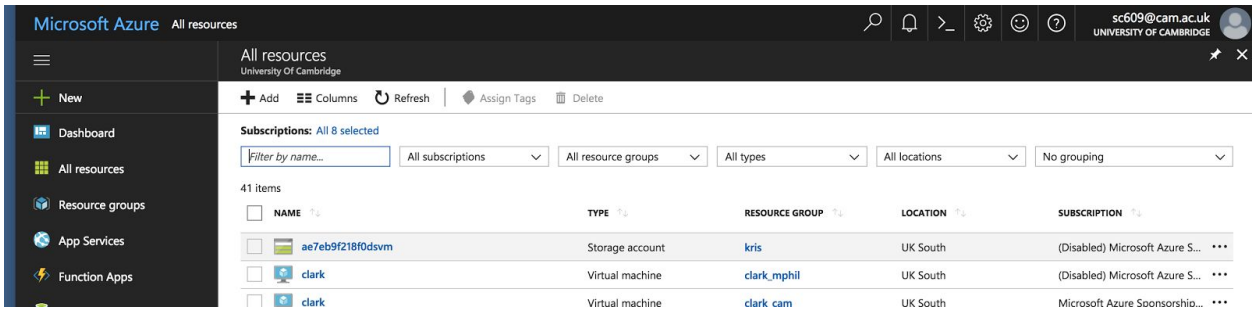
## Log in to Azure

Go to portal.azure.com and log in via your institutional account, i.e. via Cambridge and your usual CRSid email and password. If you are having trouble logging in, you may need to enable your University Microsoft account first: https://www.uis.cam.ac.uk/withdrawn/ees/ees-sign-up

After successfully logging in, you should see a page which looks something like this (but without the VM boxes on the right):

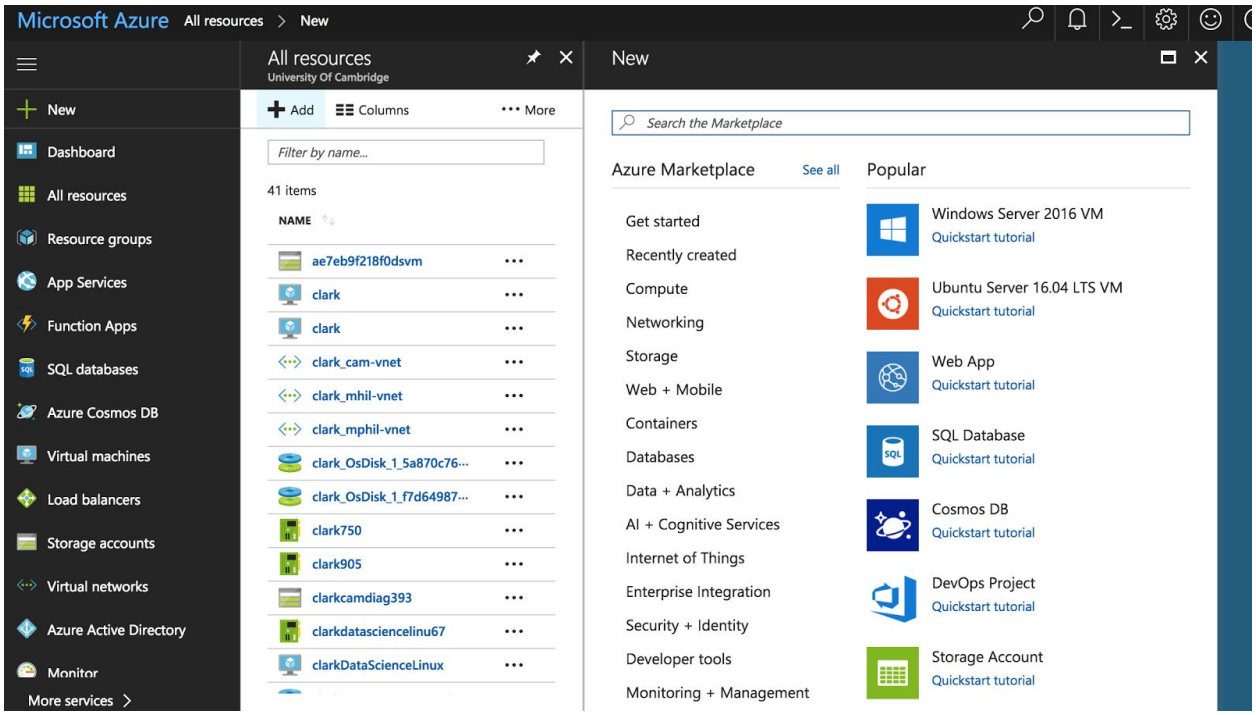



If you click on ALL SUBSCRIPTIONS (under All Resources under Dashboard, near to the top in second column from left) you should see a page that looks something like this:

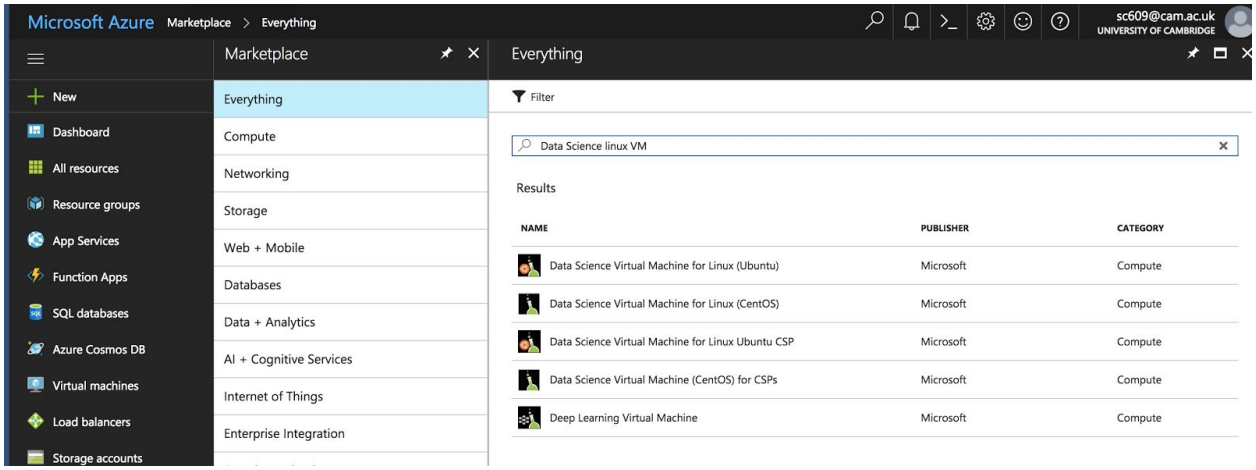


## Creating the VM

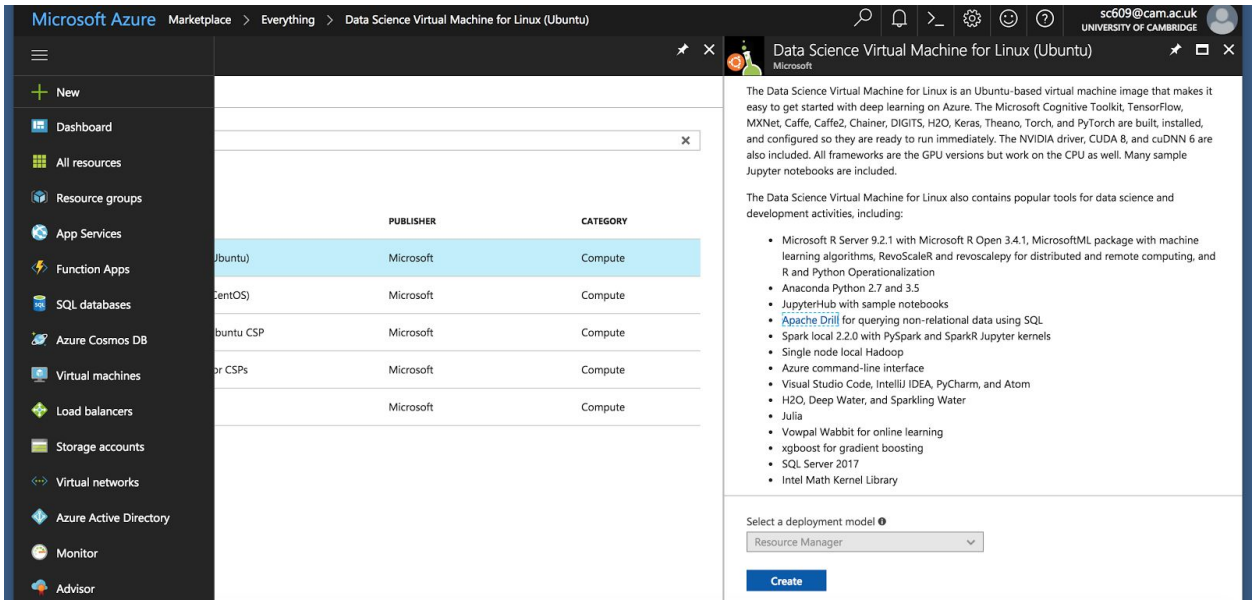
Now click on the +Add button, to the right of + New and to the left of Columns, in the bar near the top. There should now be a new panel that allows you to search the Azure marketplace:




In the search toolbar, type “Data Science Linux VM”:



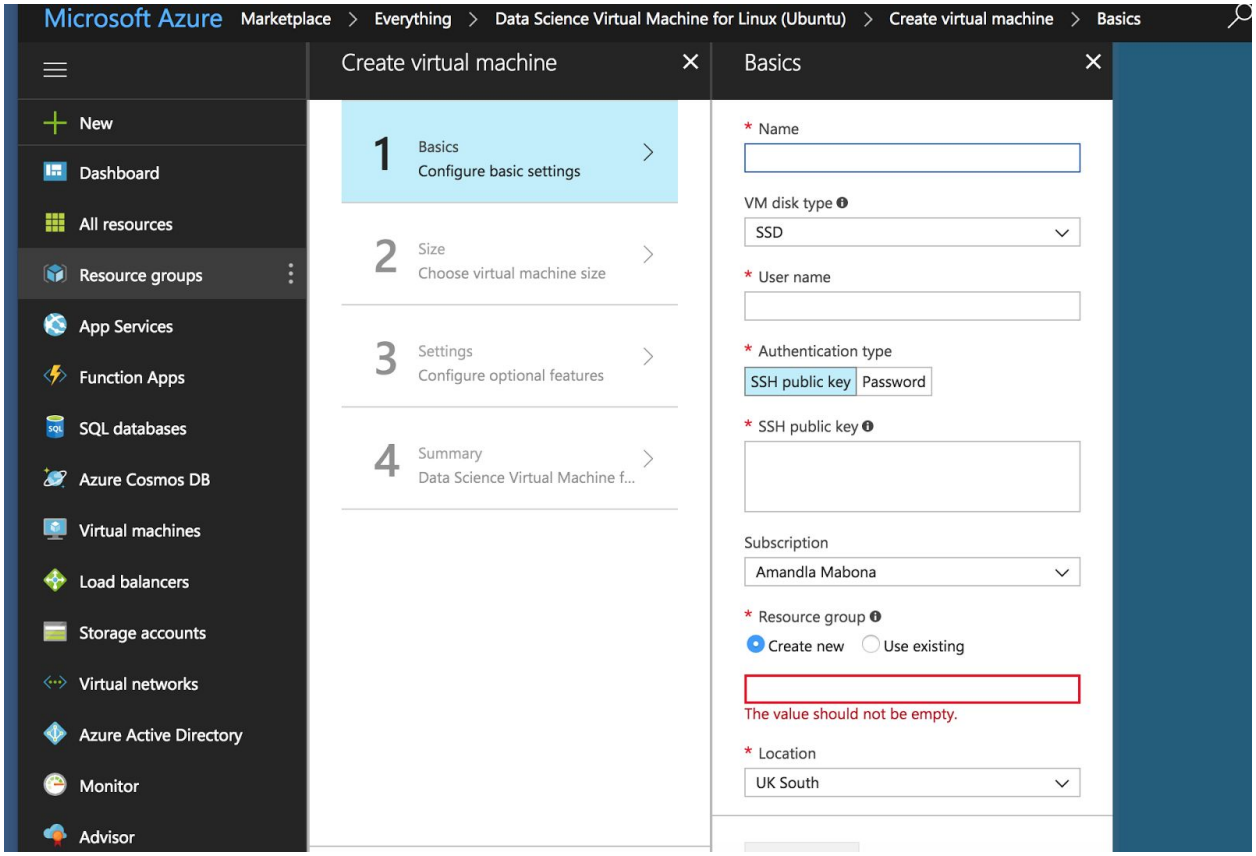

Now click on Data Science Virtual Machine for Linux (Ubuntu). (Be sure to choose the right option.) The description of the VM should be as follows:



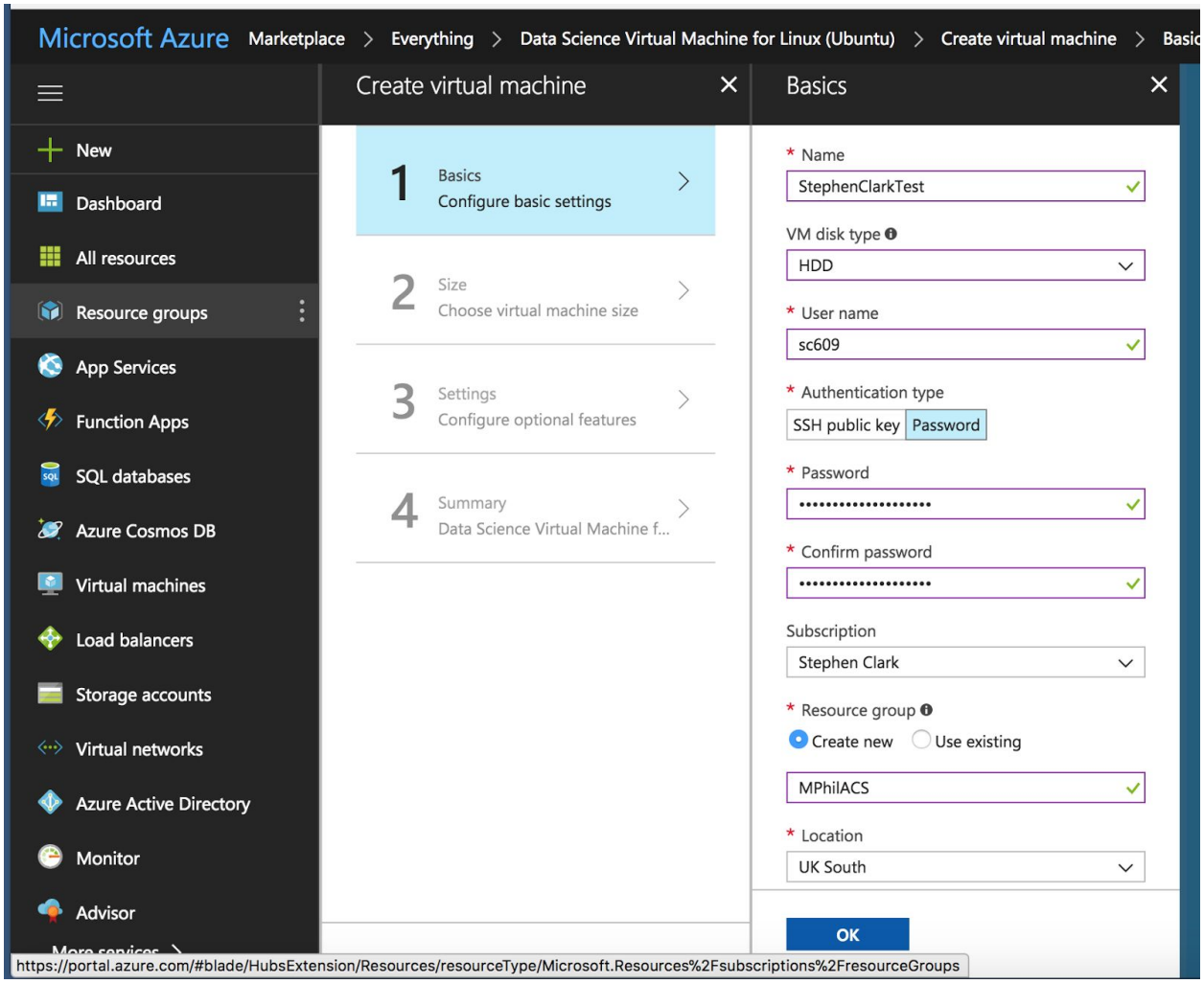

Note that this particular VM has Python and Tensorflow installed, which we will be using for the practical. Hit the blue Create button at the bottom.

## Configure your VM

There are now 4 stages to go through to configure the Data Science VM.

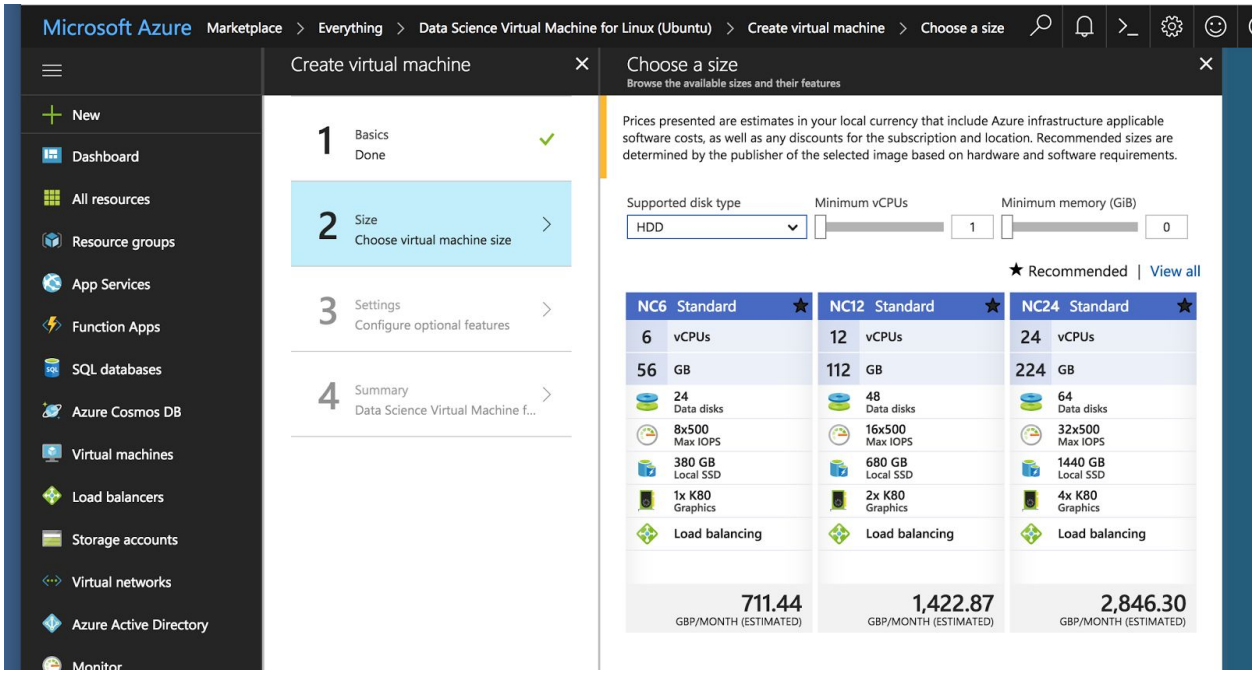



Fill in the options as follows:

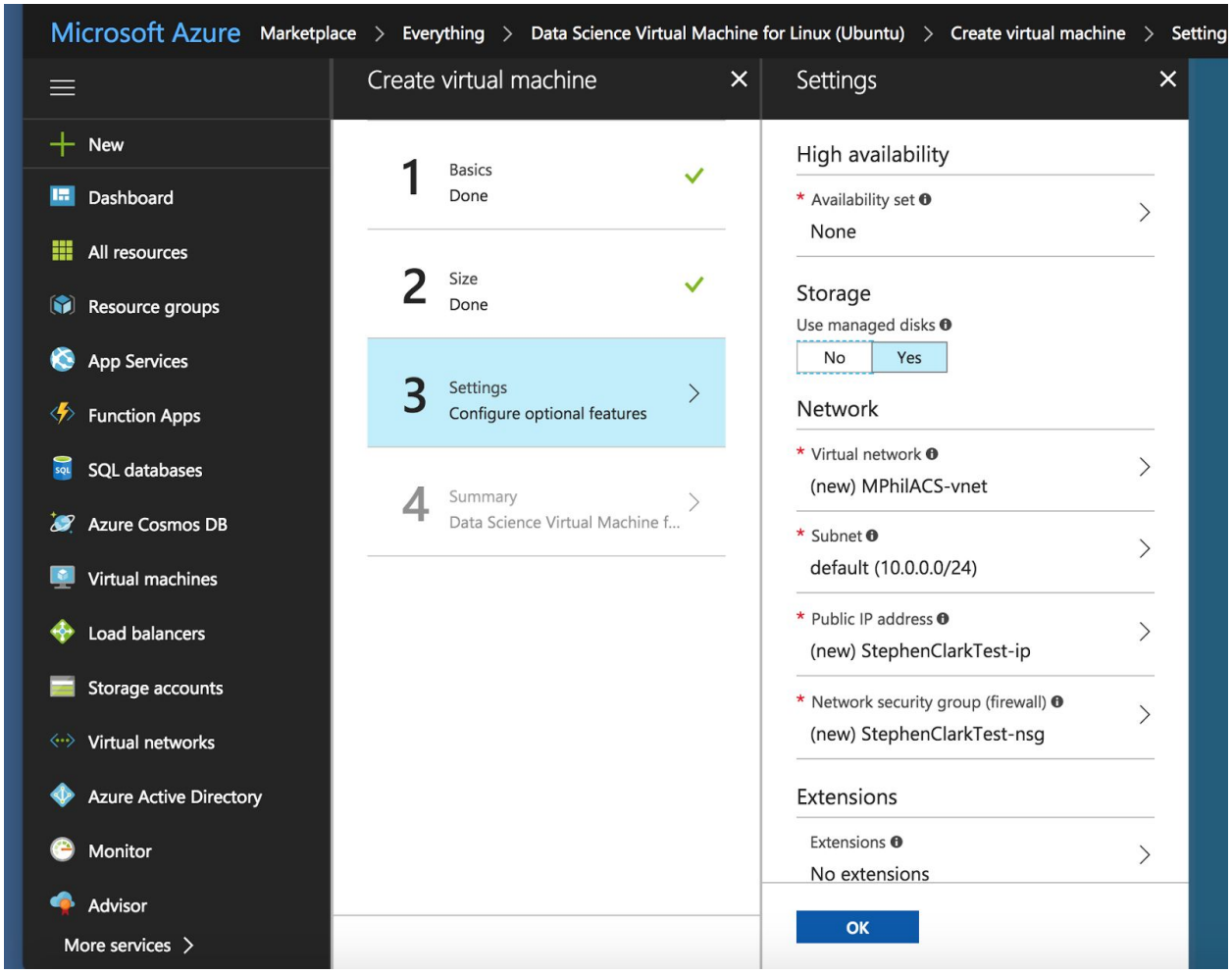



Give the VM a sensible name. Be sure to choose HDD for the VM disk type. Use your CRSid username. Choose the password option, and set a password. Pick your own subscription. Create a new resource group, call it something sensible. Choose UK South for the location. Hit the blue OK button.

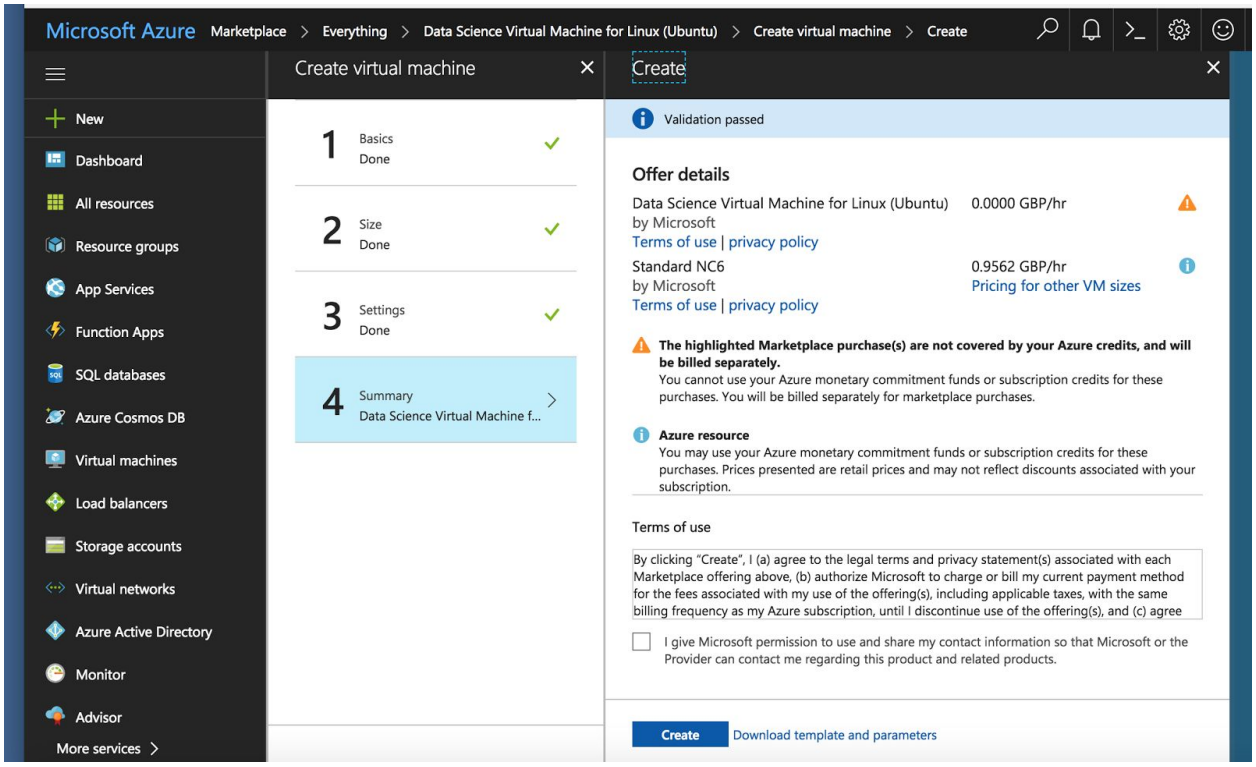
Now you choose a particular VM. Choose NC6 Standard:



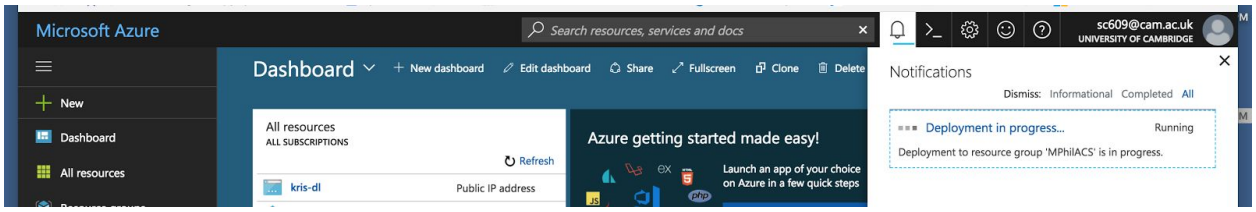

On the next screen, just hit the OK button:




Finally hit the blue Create button, and you're done:

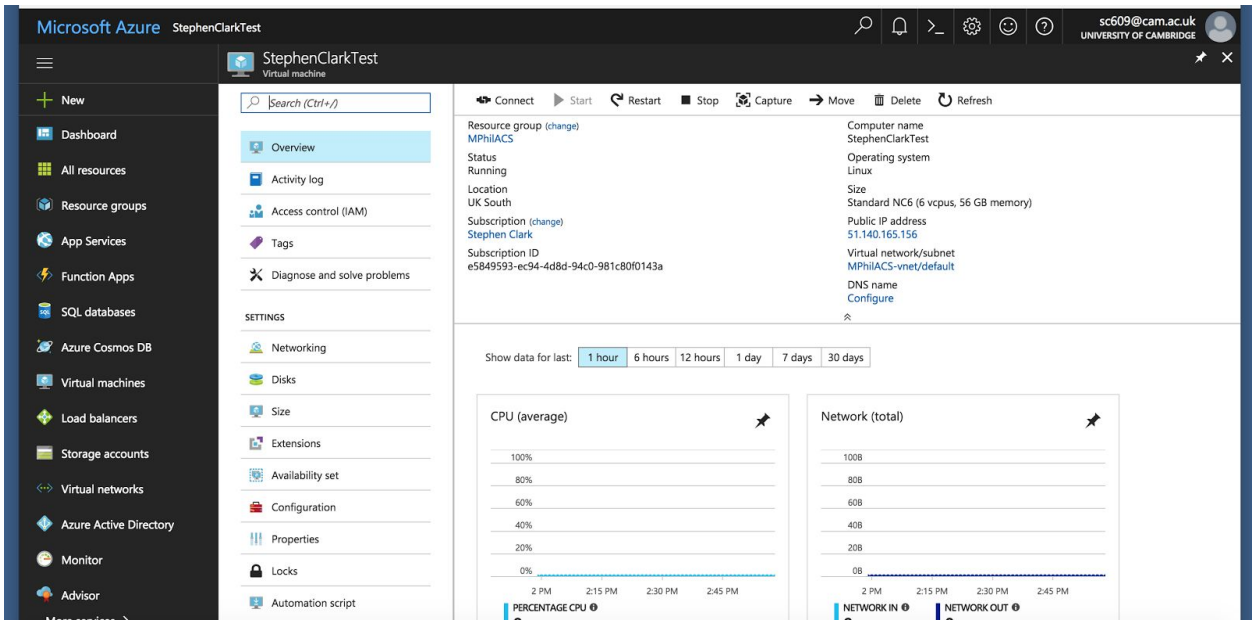



Creating the deployment will take a few minutes:




## Starting the VM

You should now see a screen that looks like this:

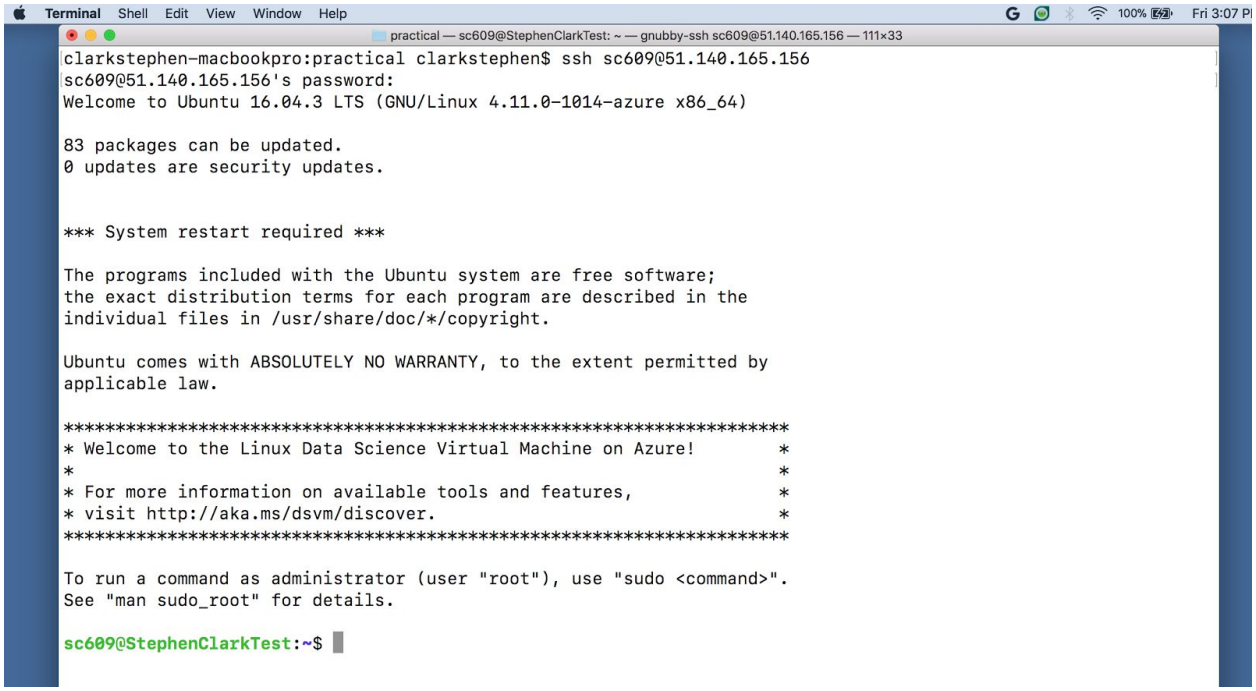



If you hit the start button in the bar at the top, this will fire up the VM (if you've just configured it, it may have been started up automatically). If you hit the connect button to the left of start, it will give you the ssh command that you can use from a terminal to ssh into your VM. Use the password you set up during the configuration stage to ssh in. (If you're not seeing the start or connect buttons as available, try a refresh on your browser.)

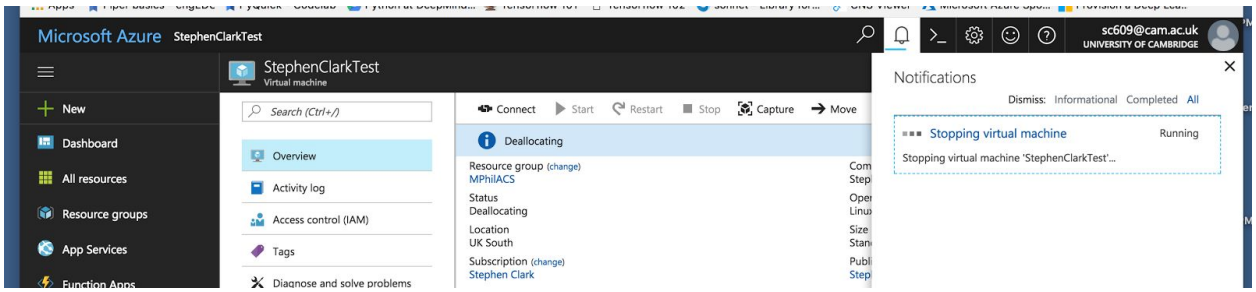
## Important

Remember to hit the stop button when you're done with a session. Otherwise the VM will keep churning away, eating up your subscription.

## SSH into the VM




Now you're in. Follow the instructions on the second instructions sheet in order to download the data and start the practical. And remember to stop when you're done:




## Checking your Balance

You can check your subscription balance at https://www.microsoftazuresponsorships.com/Balance
You have $400 to play with - use it wisely!