Required software and brief installation guide for the ACSE MSc course
September 27, 2018

1   Foreword

Laptops are provided in their original box, which means you are responsible for installing them and using them according to College regulations [TODO link]. In particular, you are responsible for installing and configuring the appropriate security software (https://www.imperial.ac.uk/admin-services/ict/self-service/be-secure/).

2   List of required software

Here is a list of software that you need to have installed on your laptop for the first four modules of the course.[1]

- Windows 10 64bit Pro, Enterprise or Education Editions (1607 Anniversary Update, Build 14393 or later) OR OSX El Capitan 10.11 or later OR Ubuntu 16.04 LTS or later (other unix based systems will probably be fine as well provided you know how to use them)

- Anaconda (python 3.6 version)

- Firefox or Chrome

- Docker

- git

- Putty

3   Installation guide

Please do not install updates during the clinic hours, as it requires several long reboots.

3.1   Windows 10 Education

Licenses are provided for free for Imperial College students.

- Go to http://www.onthehub.com/microsoft-windows-10-education-for-students/?utm_source=ms-student-page&utm_medium=microsoft-site&utm_campaign=windows10

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[1]In some cases, alternatives to our recommended solutions exist, but usually require more knowledge to maintain and might require some tweacking for some modules examples. Therefore, if you chose to not follow our recommandations, it is at your own risks and perils, and no support will be provided.

- Get a licence key

- Do not download the disk image (.iso file)

- Go in windows settings -> System -> About -> Upgrade your edition of windows

- Type in the licence key

- Follow instructions and reboot

3.2 Anaconda

Anaconda distribution is a python distribution with a lot of pre-packaged libraries. Download and install should be straightforward from this page: `https://www.anaconda.com/download`. Be careful to select the 64-Bit Python 3.6 version.

3.3 Docker

Docker is a container software that we will use to distribute some codes that do not natively run or Windows. can be downloaded from this page `https://docs.docker.com/docker-for-windows/install/`. Follow installation instructions [TODO was there a subtelty ?].

3.4 git

Git is a version control software that will be widely used throughout the course. The windows version can be downloaded and installed from `https://git-scm.com/download/win`. If asked for a default text editor and you know none of the options, choose nano.

3.5 Putty and winSCP

These two utilities allow you to connect to remote computers. Installation is extremely straight-forward from `https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html` and `https://winscp.net/eng/download.php`.

3.6 Web browsers

A significant amount of course material will be delivered through Jupyter Notebooks, which are run in a web browser. Jupyter Notebooks may not work properly with Microsoft IE or Edge. Therefore it is recommended using either Chrome or Mozilla Firefox.

3.7 Linux sub system

The Linux subsystem might be an alternative to using windows versions of the previous software, however there is no garantee it will work for all the lectures and projects, and is therefore not recommended except for recreational exploration.