

# Tutorial: Getting Started

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## 1 Accessing MATLAB

MATLAB is available on all UB CSE machines. So that's the easiest way to access MATLAB. UB doesn't provide a personal MATLAB license to students. So that leaves two easy choices for running MATLAB (GUI) on a local machine:

- Buy a license on your own.
- Use Microsoft Remote Desktop Client for remote-accessing a UB CSE machine that gives you access to MATLAB and many other softwares by default.

I'll briefly illustrate the second option. Here is the link illustrating how to use this software for remote connection:

<http://www.buffalo.edu/ubit/service-guides/software/my-virtual-computing-lab.html>

Once you are on this page, depending on what OS (Windows/Mac/Linux) you are using, click on the appropriate link to proceed further. Suppose you are a Windows user, click on the Windows symbol. You will be directed to a page that asks you whether you are accessing using *Remote app* or *Remote Desktop*. Click on *Accessing using Remote Desktop*. Finally, the next page will show you a step-by-step instruction for remote accessing a UB machine using *Microsoft Remote Desktop Client*. Notice the username you will need to enter for connecting is *ad\UBITNAME*.

Also, if you are off-campus, you will first need to connect using VPN client *Any-Connect*. This software is available to download for free by UBIT at:

<http://www.buffalo.edu/ubit/service-guides/software/downloading/windows-software.html>

In order to copy back files from UB machine to your local machine, simply copy-paste the file(s).

Disclaimer: There are other advanced solutions to accessing MATLAB on a remote machine. Please have a look at the following link: <http://aruljohn.com/info/x11forwarding/> for one such solution.

## 2 Uploading files to your UB-directory

Before you officially submit files for evaluation, you need to have them uploaded to your UB-directory. For this you will need to download *Filezilla*. Here is the download link for Windows users:

<http://www.buffalo.edu/ubit/service-guides/software/downloading/>

`windows-software/managing-your-software/filezilla.html`

here is the download link for ubuntu:

`https://apps.ubuntu.com/cat/applications/filezilla/`

There are also download links available for Mac and other Linux distributions. Please look up online in case you fall in this category.

Once your Filezilla is running, you will see 4 text-boxes that you need to fill. Enter the following:

Host: `timberlake.cse.buffalo.edu`

username: your UBITNAME

password: your UBIT password

port: 22

Then click quickconnect. You will see your UB-directory under the *Remote Site* section. The contents of this directory are displayed in a small window just below this section. To the left of this you will notice another small window showing your local machine directory. In order to move files back and forth simply drag and drop.

### 3 Submitting Assignments

You will be given a set of instructions on how to structure your assignment files (eg. zip them with a particular file-name). Now I will show you to submit this file.

For windows, here is the list of instructions:

- Open Putty. In the Host box enter *timberlake.cse.buffalo.edu* and leave Port to 22. Click connect.
- You will see a terminal where you will be prompted for your username and password. The username is your UBITNAME. The password here by default is *birth-month birth-date last-6-digits-of-your-ub-card#*. The UB-card number is the 12 digit number right above your name on your UB card. So for instance if your birthdate is 02/23/1988 and your UB card number is 1234 5678 1234 5678, then your password is 0223345678.
- Once you are logged in, enter *submit\_csecourse# file*. So for instance if your course number is 473 and file name is hw.zip, you will enter *submit\_cse473 hw.zip*. Press enter for submission.

Notice that the default folder location you see after logging in is the same as the directory listed under your UBITNAME in Filezilla.

For Unix/Linux users, simply open a terminal and type:

`ssh UBITNAME@timberlake.cse.buffalo.edu`

You will be prompted for a password. It's the same as described for Windows user above (step 2). Once you are through, simply follow step 3 as described above for windows users.

### 4 Acknowledgment

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