

PLSC 731 – Plant Molecular Genetics

Downloading Additional Software Needed to Run MAPMAKER

The MAPMAKER software is located on a UNIX computer called “abacus”. To run the software, you need to use a ssh (secure shell) connection. This is similar to a telnet connection (if you have used it before), except all of your login and password information is sent in an encrypted form. This provides you a higher degree of protection than normal telnet. Your communication with “abacus” will be with the software **Putty SSH**. In addition, you will need to transfer files to and from “abacus”. This will require a second software called **WinSCP**.

Downloading Software

1. Go to the following URL:

<http://its.ndsu.edu/>

2. Select “**Software Downloads**” and login using you normal NDSU login and password.

3. Select “**Windows Software**” and download and install

Putty SSH

WinSCP

How to use Putty SSH.

1. Go to directory to which your downloads are sent

2. Right click on **putty.exe** and select **Send To/Desktop (create shortcut)**

You only need to do steps 1 and 2 once. For all subsequent logins, follow the steps below.

3. Go to your desktop and double click on the **putty.exe** shortcut.

4. In the **Host Name (or IP address)** box, type in **abacus.nodak.edu**, in the **Saved Sessions** box type in **abacus**. The click on **Save**.

5. From now on, each time you want to connect to the “abacus” computer, simply select the **putty.exe** shortcut on your desktop, and then double-click on **abacus** in the **Saved Sessions** box.

6. To connect to **abacus**, simply type in your **abacus login** at the **login as:** prompt, and enter your password at the **Password:** prompt.

How to use WinSCP

WinSCP is used to move files to and from your computer to “abacus”. The interface for this software will consist of a left panel that contains a directory of the filesystem on your computer, and a right panel that is filesystem of your working directory on abacus. First you need to connect to abacus.

1. Go **Program Files\WinSCP3**, right click on **WinSCP3.exe**, and select **Send To/Desktop (create shortcut)**.
2. Go to you desktop, and double click on the **WinSCP3** shortcut.
3. In the **H**ost name box, type **abacus.nodak.edu**. In the **U**ser name box, type in your abacus login. (As an option, in the **P**assword box, you can type in your password. I would not recommend this.). Click on **S**ave, type **abacus** in the **S**aved session as box. Click on the **X** in the upper right corner to close WinSCP3.

You have now configured WinSCP3 for use. For all subsequent uses, simply follow the steps below.

4. Go to the desktop, and double-click on the WinSCP3 icon. If you did not include your password in the set up in step 3, enter your password in the **P**assword box, and click on OK.
5. You should spend some time learning about the features of WinSCP3. Simply try moving files back and forth between different directories on your computer and your abacus account. Right clicking will give a number of options. Remember, this software allows you to connect your filesystem on your computer, with a filesystem on a separate computer. You should practice so that you don't accidentally delete some valuable file.