## Using SurfSara HPC Cloud

During the course we will make use of the SurfSara Cloud (SurfSara http://www.surfsara.nl/). Follow the instructions below to get started.

# You have received a login username ('UN') and password and ('PW'). Everyone uses the password 'change!'. In addition, you also received an IP number. These three items you need to login.

## WINDOWS USERS

# Method: Connect with Xming and Putty

You can use Xming and Putty to connect to your machine.

- 1. Download putty (<u>http://www.putty.org/</u>)
- 2. Download and install Xming (<u>https://sourceforge.net/projects/xming/</u>)
- 3. Start Xming (you will now see the Xming icon in the icon bar).
- 4. Start Putty.
- 5. Configure Putty as follows:
  - Fill in the IP-address in the "hostname" box
  - Select SSH > X11 in the menu and enable X11 forwarding
  - You can save the settings in the "Session" menu by providing a name
  - Then select "Open" and login with your UN and PW
- 6. Type 'xclock'. If you see a clock then everything is ok .

#### UNIX/LINUX USERS

#### Method. Connect with ssh

- Open a terminal
- Login with ssh -X UN@IP
- Provide your UN and PW
- Type 'xclock'. If you see a clock then everything is ok .

#### **MAC USERS**

#### Method. Connect with Terminal

- 1. Download and install 'Xquartz' (<u>http://www.xquartz.org/</u>)
- 2. Open OS X Terminal (Programma's ► Hulpprogramma's).
- 3. Login with ssh -X -1 UN@IP
- 4. Alternatively try: ssh -X UN@IP
- 5. Provide your UN and PW
- 6. Type 'xclock'. If you see a clock then everything is ok .
- 7. After login type 'echo \$DISPLAY' and write down what you see (e.g. 'localhost:XX.0'). This may change everytime you login!
- 8. If you use R then your first command in R should be:
  - Sys.setenv('DISPLAY'='localhost:XX.0')
  - Type plot(c(1:10)). If you see a plot then everything is ok/
- 9. Mac users see also: <u>https://www.youtube.com/watch?v=J\_8ZsXP1EYk</u>

Note:

- If you logout or if your session is terminated then just login again and continue where you left off.
- If you have to terminate R, the first save your session with q() and then typing 'y'. Then, if you restart R, you can continue where you left off.