2019 Sagan Summer Workshop Astrobiology for Astronomers July 15-19, 2019

# HANDS-ON SESSIONS

# SET-UP

The software for the hands-on sessions is installed on the Amazon cloud (Amazon Web Services, or AWS). The login information will be provided when you pick up your badge. To access your AWS account and then run the software, you will need an **X terminal and X server**.

### **BEFORE THE WORKSHOP:**

### **Installation for Mac OS**

On **MacOS**, the Terminal app is already included as your terminal emulator. You may also have to install XQuartz (https://www.xquartz.org/), the X Window System for MacOS.

### **Installation for Windows**

On **Windows** operating systems, you will need to install software packages to get a terminal emulator and X server.

PuTTY (https://www.putty.org/) is a terminal emulation software and Xming (https://sourceforge.net/projects/xming/) is a free X Window System server for Windows. We recommend downloading and installing them; Cygwin (https://cygwin.com/) will work, too, but overall the Cygwin packages are very large, and you have to make sure to install the Cygwin/X packages, too.

- To install PuTTY, download the msi file, then double-click on it to start the installation.
- To install Xming, download the exe file, then double-click on it to start the installation, choosing the default options.

Next, you have to configure Xming and PuTTY; for the latter, you have to wait until you get your AWS account information.

# AT THE WORKSHOP:

## **Configuration for Windows**

#### Xming

Go to the directory where you installed Xming.

Launch Xlaunch.exe (by double-clicking on it):



Select Multiple Windows and enter 0 for Display number. Click Next.



#### Select Start no client then click Next



Keep the defaults on the next screen ("Additional parameters").

#### Click on Save Configuration:

Finish configuration		Ð
Configuration complete Choose whether to sa	<b>e</b> ave your settings to an XML file.	X
Click Finish to start Xming.		
You may 1 Sign	uration' for re-use (run automatically or alter via -load opti	on).
Save configuration	Include PuTTY Password as insecure clear text	
	<pre></pre>	Help

This will ask you to save a file called config.xlaunch. Save this file in one of your directories; you will need it to start Xming with the pre-set configuration.

#### PuTTY

Go to the directory where you installed PuTTY. Launch putty.exe (by double-clicking on it).



### STEP 1

- 1 Enter the IP address that was assigned to you
- 2 Enter Sagan Workshop
- Expand the SSH menu by selecting"+" by SSH from the left-side menu

### STEP 2

- Select "X11" from SSH submenu
- 2 Check "Enable X11 forwarding" box
- 3 Enter "localhost:0" for X display location
- 4 Select MIT-Magic-Cookie-1



### STEP 3

- 1 Select "Tunnels" from SSH submenu
- 2 Enter "8888" for Source port
- 3 Enter "localhost:8888" for Destination
- 4 Select "Add"



Reputty Configuration		? x
Putty Configuration Category:  Session Upgin Green Gr	Basic options for your PuTTY se Specify the destination you want to conner Host Name (or IP address) 54.64.98.3 Connection type: Raw I elnet Rlogin SSH Load, save or delete a stored session Saved Sessions Sagan Workshop Default Settings 2	2 X ssion ct to 22 2 Cost 2 Cost 22 Cost 2 C Cost 2 Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost 2 C Cost Cost 2 C Cost 2 C Cost Cost 2 C C Cost 2 C C C C C C C C C C C C
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About Help	<u>Open</u>	<u>C</u> ancel

### STEP 4

 Select "Session" from left-side menu
 Select "Save"; now "Sagan Workshop" will show up under Saved Sessions.