**VM Cloning Instructions**

1. To create a virtual Windows machine (without having to go through all the installation process):
   - Login to one of the shakespeare servers: othello hamlet lear macbeth cleopatra antony edmund caesar
   - Create a virtual machine space as usual:
     - example: `citv createvm win_clone_8G 128 8 2054` (you don’t need more than 128M of RAM).
     - You could also use the web interface.
   - Now that you have a space for it created, we will copy a pre-existing image over the one you just created. I will use a windows system, but you could do any pre-existing image.
     - `ssh saturn`  
     - `cd /c/qemu/images/`  
     - `ls <your username>*` (ex: ls jfrancom*). NOTE THE ASTERISK IN THE PRECEEDING COMMAND. This allows you to see what your entire image name is called. Mine is `jfrancom-jfrancom-win_clone_8G.img`  
     - Issue the following command, making sure that you substitute your filename (from the above step, as the copy to destination):
       - `cp --sparse=always src dest` where `src = 000 WINDOWS IMAGE COPY ME.img` and `dst = whatever your new image name is (ie jfrancom-jfrancom-image.img)`
     - Should then be able to boot your image:
       - `citv bootvm win_clone_8G c win_xp (substituting your image name)`

2. You can do this with ANY image that is in the images directory. So if you want to clone your own, you can do so!