# SOFTWARE INSTALLED, AND ISSUES DISCOVERED & RESOLVED

## VirtualBox: UbuntuDesktop:

* If attempting to start a VM in a saved state and then the **guest is unresponsive** then try View->Auto-resize Guest Display (Right-Ctrl + G), if not then try Devices‑>Insert Guest Additions CD image and then try View‑>Auto-resize Guest Display (Right-Ctrl + G) again.
* After a Ubuntu Software Update, the screen may not be sized correctly, do the following:
  + Install Additions CD (from VB menus)
  + Restart Ubuntu VM
  + Flick through full screen mode and other view options and should get it back
* Use the following to locate package names for using with Chef  
  apt-cache search git | grep git  
  The grep part is only used to highlight the searched word

Windows: When a Java application cannot load (i.e. cannot create a JVM or find a JRE/JDK then it usually means that the application is 32 bit or 64 bit and it cannot find the required JRE/JDK in 32 bit or 64 bit)

SSH client -> use PuTTY

## GIT COMMANDS

* GitHub for Windows is very useful and easy to setup and includes a PowerShell command line.
* Git on Linux: you need to set up SSH access – good instructions here : <https://help.github.com/articles/generating-ssh-keys/>

### GIT – initial config

(maybe put these into devenv Chef recipe eventually)

git config --global user.name "John Warde"  
git config --global user.email [john.warde@gmail.com](mailto:john.warde@gmail.com)  
cd ~/.ssh  
ssh-keygen -t rsa -C [john.warde@gmail.com](mailto:john.warde@gmail.com)  
ls -l /c/Users/johnwarde/.ssh/id\_rsa  
ssh -T [git@github.com](mailto:git@github.com)  
cd ~/scm  
git clone <https://github.com/johnwarde/library.git>

xclip -sel clip < ~/.ssh/id\_rsa.pub (copies contents of file to clip board for pasting into a new SSH key on gi hub, see settings->SSH Keys)  
ssh -T [git@github.com](mailto:git@github.com) (again)

### GIT – initialize new repository

(can always init a repository on github and clone down)

cd C:/Users/johnwarde/Downloads/johnwarde/library  
git init  
git status  
git status –s  
git add . (add everything in current directory)  
git commit -m 'First commit of project'  
git remote add origin git@github.com:johnwarde/library.git (links to repository at github.com)  
git push -u origin master

### GIT – normal workflow

git status  
git status –s  
git add src/library/Book.java  
git add src/library/Library.java  
git add . (you need to do a git add on already tracked/modified files too to put them into staging for commit)  
git commit -m "Added Library.java, modified others to work with it."  
git push origin master (push changes to remote repository)  
git status –s

### GIT – other useful commands

git log

git –help

git rm --cached ../docs/~$nNotes.docx (supposed to remove tracked file but didn’t work)

**18/10/2014 16:13**

* Upgraded VirtualBox to 4.3.18 which resolved the “make sure the kernel module has been loaded successfully” (also bad dll message on opening of VirtualBox). All VMs are now working
* Issues with Java which I had fixed before, still need to fix, I should refrain from upgrading Java until the end of the project.
* In UbuntuDesktopX32 VM:
  + Maven has been installed but never used it
  + Disk space is low, need to free up if upgrading from Ubuntu 12 -> 14
  + Accidently deleted the hard drive image of this VM, have now deleted this
* Created UbuntuServerX64 (may have only called it UbuntuX64 in places/set-up i.e. hostname)
* Created UbuntuDesktopX64 using C:\Users\johnwarde\Downloads\ubuntu-14.04.1-desktop-amd64.iso

#

**27/10/2014 21:01**

* After learning some Puppet from tutorials at puppetlabs.com, decided to switch to Chef after reading a number of articles stating that Chef is more suited to multi-cloud environments because it more customisable and better integration with external tools which may be needed for this project.
  + <https://www.computenext.com/blog/opscode-chef-vs-puppet-labs-for-multi-cloud-orchestration/>
  + <http://devopsanywhere.blogspot.ie/2011/10/puppet-vs-chef-fight.html>
* Installed Ubuntu version of Chef-DK on UbuntuDesktopX64 from <http://downloads.getchef.com/chef-dk> and let the Ubuntu Software Center open the .deb file

**02/11/2014**

* Attempt to get stuff going on the macbook …
* Was able to reset my account (name) using steps in the “Resetting a password without an additional account” from here:
* Then needed to reset/delete the default keychain:  
  <http://support.apple.com/en-us/HT1631>

**01/11/2014**

* On Unbuntu
* Installed Oracle JDK using the following, based on the “Install Oracle Java 7 in Ubuntu or Linux Mint via PPA” section of <http://www.webupd8.org/2012/01/install-oracle-java-jdk-7-in-ubuntu-via.html>  
  sudo mount -t vboxsf jbdissertation jbdissertation

sudo add-apt-repository ppa:webupd8team/java

sudo apt-get update

sudo apt-get install oracle-java7-installer

java -version

javac -version

sudo apt-get install oracle-java7-set-default

**02/11/2014**

* Continuing on with Chef (already installed on TODO) ...
* Followed tutorial starting at https://learn.getchef.com/ubuntu
* Then followed this which required ...
* Signing up for a free trial account at opscode.com
* Downloading a Starter Kit, a zip file containing certificates, links to account just set up etc. : <https://learn.getchef.com/ubuntu/get-ready-to-add-another-server/>

**02/11/2014**

* On MacBook ...
* Downloaded the .dmg file for ChefDK however I am getting an “Illegal Instruction 4” or “Segmention fault: 11” when I try to run any chef commands
* Decided to uninstall ChefDK and upgrade Mac OSX

**06/11/2014**

* Mackbook …
* Successfully upgraded Mac OSX to Yosmite
* Successfully installed ChefDK:
  + Downloaded the .DMG file from <http://downloads.getchef.com/chef-dk/mac/#/>
  + Opened the .DMG file on the Mac and it contained a .pkg file, double clicked on this and it installed successfully
  + Typed 'chef verify' in a terminal session and all was verified with no illegal instruction/segmentation fault errors
  + More info here for un-installing etc.: https://docs.getchef.com/install\_dk.html
  + Saving this line although this may only be for installing chef client tools and not the ChefDK  
    curl -L http://www.getchef.com/chef/install.sh | sudo
* Need start creating a Chef recipe for the applications I install on the Mac, start with git then Java. Also need to start thing about but these into the git repository

**08/11/2014**

* Learned that Mac OSX is a derivative of BSD Unix and not Linux and have decided against using Mac OS as there may be incompatibilities with Linux packages I want to install and in terms of Chef, what would work on the Macbook may not Linux cloud instances.
* Sticking to Linux/Windows environment, hope the VM holds out.

**09/11/2014**

* Learned that Mac OSX is a derivative of BSD Unix and not Linux and have decided against

**10/11/2014**

* Started adding packages to Chef recipe file UbuntuDesktopX64.rb, got Eclipse and git set up

**13/11/2014**

* Was able to sync down old Java library projects , load in Eclipse, debug and run from command line to confirm that Java is working on the Ubuntu guest VM
* Copy & paste steps to run Java project and git commands summary from the library repository (OwnNotes.docx)

**14/11/2014**

* Synced down mscdissertation repository from github and set it up so that I can make changes from Ubuntu, see “GIT COMMANDS” section above.