READY and TESTED

If you can't follow these simple steps, go to next page to check the detail steps.

I forked the sakai.git, my link is: https://github.com/a3994288/sakai.git

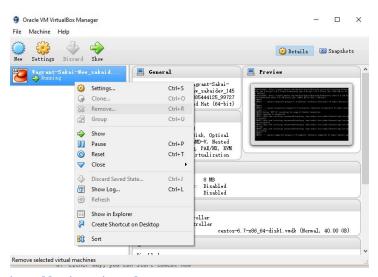
Simple steps:

- 1. If you have already run vagrant up, please delete the old machine in Vbox before run this one IMPORTANT
- 2. git clone https://github.com/a3994288/Vagrant-Sakai-New
- 3. vagrant up (takes about 30-60 mins)
- 4. add to \$PATH: C:\Program Files\Git\usr\bin (if 64 bits)
- 5. allocate more memory to the VM, at least 1.5GB (2GB preferred), you have to power off the VM to do so. IMPORTANT!!
- 6. Now you have two options:
 - a. run command: vagrant ssh
 - b. OR you can just run the VM in Vbox, user:root, password:vagrant, after that you can run command: startx
- 7. suggest you run through Vbox, then start the GUI, easier for eclipse later.
- 8. reboot it again
- 9. command: service mysqld restart
- 10. command: cd /opt/sakai-src/sakai
- 11. command: mvn install -Dmaven.test.skip (takes 25 mins, only continue when successful)
- 12. command: mvn clean install sakai:deploy -Dmaven.tomcat.home=/opt/tomcat (40 mins)
- 13. command: cd \$CATALINA_HOME/bin
- 14. run the command: ./startup.sh you are supposed to wait for about 30 mins even it shows tomcat started.
- 15. http://localhost:8888/portal (if it shows loading, please wait, should not more than 30 mins)
- 16. http://localhost:8080/portal for the VM
- 17. login for sakai: admin/admin
- 18. to stop tomcat, run the command: ./shutdown.sh should not see any error.
- 19. to start eclipse, cd /opt/eclipse
 THEN ./eclipse
- 20. if anything happened during the installation, no need to reinstall the VM, do the following steps:
 - a. command: reboot
 - b. command: service mysqld restart
 - c. command: cd /root/.m2
 - d. command: rm -rf repository
 - e. command: cd /opt/tomcat
 - f. command: rm -rf webapps/*
 - g. Go back to step 8
- 21. to finish the environment setup, please continue on step 13.e, and finish the rest on this website:
 - $\frac{\text{https://confluence.sakaiproject.org/display/BOOT/Development+Environment+Setup+Walkthrough}{\text{ugh}}$
 - a. step 13.e: just do it, link is/usr/java/jre1.8.0_60
 - b. step 14: I do not think we need subclipse since we use github (Use EGit)
 - i. follow this link: https://www.youtube.com/watch?v=ptK9-CNms98
 - ii. Just install the EGit, do not import now

- c. step 15: DO NOT FOLLOW THE INSTRUCTION, use this link: http://www.eclipse.org/m2e/, instead of "software update", click "install New Software", however, I think it comes with the eclipse, no need to install unless you don't have it.
- d. step 16: skip
- e. step 17: skip all and do the following:
 - i. Window -> Perspective -> Open Perspective -> Java
 - ii. Select Project and uncheck Build automatically
 - iii. File -> Import, enter /opt/sakai-src/sakai
 - iv. File -> Import -> maven -> Existing maven Projects into Workspace
 - v. Select /opt/sakai-src/sakai
 - vi. Only import the assignment project.

DETAILS (Same steps as above, but in details):

1. If you have already run vagrant up, please delete the old machine in Vbox before run this one IMPORTANT, you have to close-->stop the machine then remove it.

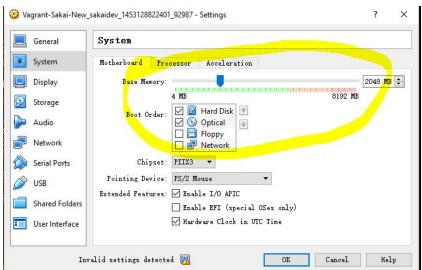


- 2. install git, virtualBox, Vagrant, restart
- 3. open cmd
- 4. run command: cd C:\ [please use / if you are using Mac or Linux]
- 5. run command: git clone https://github.com/a3994288/Vagrant-Sakai-New

- 6. run command: cd c:\Vagrant-Sakai-New
- 7. run command: vagrant up (depends on the Internet, could take about 30-60 mins)

```
C:\Users\chang>cd c:\
c:\>git clone https://github.com/a3994288/Vagrant-Sakai-New
Cloning into 'Vagrant-Sakai-New'...
remote: Counting objects: 51, done.
remote: Compressing objects: 100% (37/37), done.
emote: Total 51 (delta 16), reused 36 (delta 4), pack-reused 0U
Unpacking objects: 100% (51/51), done.
Checking connectivity... done.
c:\>cd Vagrant-Sakai-New
```

- 8. change system environment variables:
 - a. http://www.nextofwindows.com/how-to-addedit-environment-variables-in-windows-7
 - b. PATH=%PATH%;C:\Program Files\Git\usr\bin (if 64 bits)
 - c. PATH=%PATH%;C:\Program Files (x86)\Git\bin (for 32 bits)
- 9. Adjust the VM memory to at least 1.5GB (2GB preferred), you have to power off the VM to do so. IMPORTANT!!



- 10. Now you have two options:
 - a. run command: vagrant ssh
 - b. OR you can just run the VM in Vbox, user:root, password:vagrant, after that you can run command: startx
 - i. double click the machine you just created to enter the VM



- 11. suggest you run through Vbox, then start the GUI by command startx, easier for eclipse later.
- 12. start a terminal
- 13. reboot it again.

```
sakaidev login: root
Password:
[root@sakaidev ~]# reboot
```

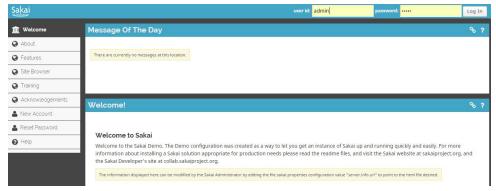
- 14. command: service mysqld restart
- 15. command: cd /opt/sakai-src/sakai
- 16. command: mvn install -Dmaven.test.skip (takes 25 mins)
 - a. You should see "SUCCESSFUL" after this, otherwise, don't continue.

17. command: mvn clean install sakai:deploy -Dmaven.tomcat.home=/opt/tomcat (40 mins)

- 18. go to tomcat dir by running command: cd \$CATALINA_HOME/bin
- 19. run the command: ./startup.sh

```
[root@sakaidev sakai]# cd $CATALINA_HOME/bin
[root@sakaidev bin]# ./startup.sh
Using CATALINA_BASE: /opt/tomcat
Using CATALINA_HOME: /opt/tomcat/temp
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME: /usr/java/jdk1.8.0_60
Using CLASSPATH: /opt/tomcat/bin/bootstrap
.jar
Tomcat started.
[root@sakaidev bin]# _
```

- 20. after that, you are supposed to wait for 30 mins, we do have a fix for that (hopefully), but apply it later. To see full details, run command: ./catalina.sh run instead of ./startup.sh
- 21. after tomcat started, you should be able to visit Sakai site in host machine.
- 22. login for sakai: admin/admin
- 23. http://localhost:8888/portal (if it shows loading, please wait, should not more than 30 mins)
- 24. http://localhost:8080/portal for the VM



- 25. I've installed the internet browser for the VM
- - a. you should NOT see any error when shutdown the tomcat, if you see a error relates to the port 8005, means it is not started properly.
- 27. eclipse is installed under /opt/eclipse
- 28. if anything happened during the installation, no need to reinstall the VM, do the following steps:
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 - d. command: rm -rf repository
 - e. command: cd /opt/tomcat
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