1. Development Tools
2. Tomcat 8
   1. Location: /opt/tomcat
   2. ~~Adding “URIEncoding = “UTF-8” to /tomcat/conf/server.xml <Connector port=”8080” URIEncoding=”UTF-8”~~
   3. Set Environment CATALINA\_HOME=/opt/tomcat, and add $CATALINA\_HOME/bin to PATH
   4. Create setenv.sh in /opt/tomcat/bin
   5. Edit tomcat/conf/catalina.properties:
      1. common.loader=...

,"${catalina.base}/common/classes/","${catalina.base}/common/lib/\*.jar"

* + 1. server.loader=...

${catalina.base}/server/classes/,${catalina.base}/server/lib/\*.jar

* + 1. shared.loader=...

${catalina.base}/shared/classes/,${catalina.base}/shared/lib/\*.jar

* 1. create the dir
     1. mkdir -p shared/classes shared/lib common/classes common/lib server/classes server/lib
  2. speed up tomcat:
     1. tomcat/conf/context.xml

<Context>

<JarScanner>

<JarScanFilter defaultPluggabilityScan="false" />

</JarScanner>

</Context>

1. install java
   1. java 1.8
   2. JAVA\_HOME, and PATH
   3. JAVA\_OPTS
2. Install Maven
   1. Location: /usr/local
   2. Maven home and PATH
3. Install mysql
   1. Everything is ready
   2. You still need to update the /etc/my.cnf file
      1. [mysqld] section

default-storage-engine = InnoDB

innodb\_file\_per\_table

character-set-server=utf8

collation-server=utf8\_general\_ci

lower\_case\_table\_names = 1

* 1. Move oracle connector

1. Clone sakai
2. /opt/tomcat/sakai.properties and /root/.m2/settings.xml
3. Download eclipse
   1. Expand eclipse file
   2. You still need to do the following AFTER YOU DEPLOY SAKAI:
      1. Start eclipse: cd /opt/eclipse and then ./eclipse
      2. Window🡪preferences🡪Java🡪Installed JREs
      3. Edit it, change the path to /usr/java/jdk1.8.0\_60
      4. Save