**Software Installation**

*Note: This includes installing tomcat, the tomcat package will work but this step is included for completeness.*

1. Assure that software on the system is current and patched.
   1. sudo yum update
2. Install
   1. sudo yum install apr
   2. sudo yum install apr-util
   3. sudo yum install apr-devel
   4. sudo yum install apr-util-devel
   5. sudo yum install gcc
   6. sudo yum install ant
   7. sudo yum install git
   8. sudo yum install openssl-devel
3. Create a location for the source code and go into directory
   1. mkdir Software
   2. cd Software
4. Download source code
   1. wget <http://mirror.olnevhost.net/pub/apache//httpd/httpd-2.2.27.tar.gz>
   2. wget <http://mirror.olnevhost.net/pub/apache/tomcat/tomcat-7/v7.0.54/bin/apache-tomcat-7.0.54.tar.gz>
5. Prepare the code
   1. tar –xzvf httpd-2.2.27.tar.gz
   2. tar –xzvf apache-tomcat-7.0.54.tar.gz
6. Prepare installation
   1. sudo mkdir /apps
   2. Tomcat
      1. sudo mv apache-tomcat-7.0.54 /apps
      2. cd /apps
      3. ln –s apache-tomcat-7.0.54 tomcat
      4. Now you can run TOMCAT alone to test
         1. cd /apps/tomcat/bin/
         2. ./startup.sh
         3. ./shutdown.sh
   3. Apache
      1. cd /home/ec2-user/Software/httpd-2.2.27
      2. configuration

./configure --prefix=/apps/apache-2.2.27 \

--enable-cgi \

--enable-rewrite=shared \

--enable-so \

--enable-ssl \

--with-ssl \

--enable-setenv \

--enable-proxy \

--enable-proxy-html \

--enable-proxy-balancer \

--enable-cache \

--enable-headers \

--enable-speling=shared \

--enable-unique-id

* + 1. make
    2. sudo make install
    3. sudo ln -s apache-2.2.27 apache
    4. cd /apps/apache
    5. sudo useradd webuser
    6. cd /apps/apache/conf
    7. sudo vi http.conf
       1. change user and group to webuser (lines 68 and 69)
    8. now you can run APACHE alone to test
       1. cd /apps/apache/bin
       2. sudo ./apachectl start
       3. sudo ./apachectl stop

1. Existdb
   1. cd /apps
   2. git clone https://github.com/exist-db/exist exist
   3. cd exist
   4. sudo ./build.sh
      1. existdb can now be run from this directory on port 8080
         1. ./bin/startup.sh
         2. CTRL C to stop
   5. sudo ./build.sh dist-war
   6. cd dist
   7. sudo cp exist-2.1-rev.war /apps/tomcat/webapps/exist.war cp exist-2.1-rev.war /apps/tomcat/webapps/exist.war
2. Now all of the pieces work, put them together
   1. First be sure exist, tomcat, and apache is not running
      1. netstat –na |grep 80
   2. cd /apps/apache/conf
   3. sudo vi httpd.conf

##Tomcat Proxy

ProxyRequests off

ProxyPreserveHost on

ProxyPass /exist/ http://localhost:8080/exist/

ProxyPassReverse /exist/ http://localhost:8080/exist/

ProxyPass /db/ http://localhost:8080/db/

ProxyPassReverse /db/ <http://localhost:8080/db/>

1. Start the system
   1. cd /apps/apache/bin
   2. sudo ./apachectl start
   3. cd /apps/tomcat/bin
   4. ./startup.sh
      1. Tomcat startup can be monitored from /apps/tomcat/logs/catalina.out
         1. tail -f /apps/tomcat/logs/catalina.out