# Tomcat Installation in Redhat

## Create a Redhat Ec2 Server and assign proper security group

Open Port

80 (Anywhere) and

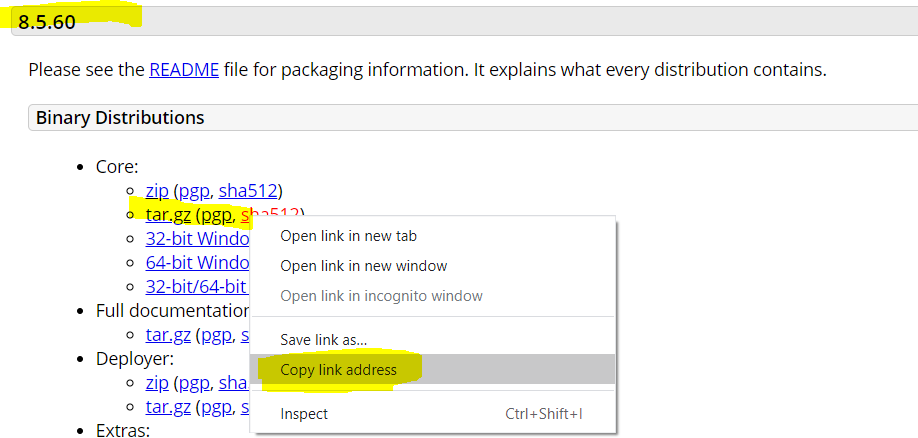
8080 (Temporary basis and for MyIP)

## Check if this is in REPO

[root@ip-172-31-43-74 ~]# yum list|grep tomcat

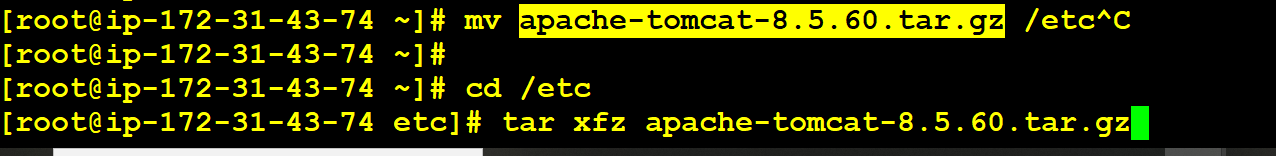
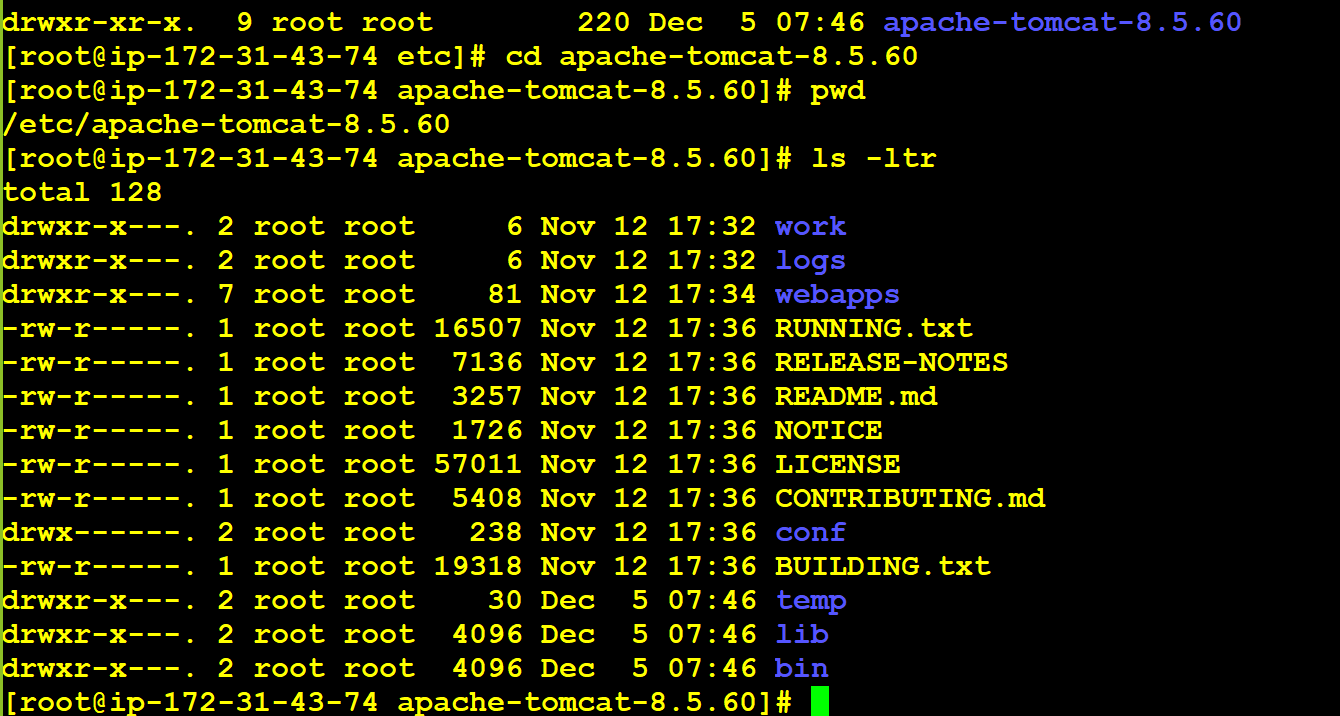
## Install it manually in the server after confirming from your manager

1. Go to the URL - <https://tomcat.apache.org/download-80.cgi>
2. Click on Copy Link



1. Download it in Server using wget (if it is not there, install wget)

wget <https://mirrors.estointernet.in/apache/tomcat/tomcat-8/v8.5.60/bin/apache-tomcat-8.5.60.tar.gz>

1. Move this file apache-tomcat-8.5.60.tar.gz to /etc and untar it  
     
   
2. List the binary which is untar  
     
   
3. **Try to start Tomcat but it might fail because you don’t have JAVA installed,**

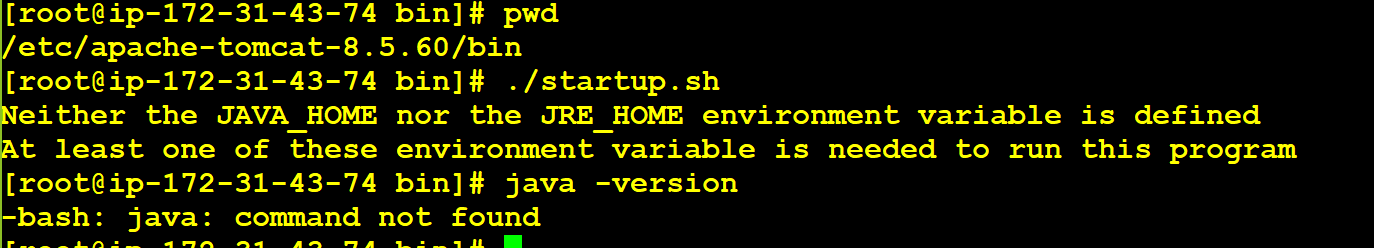
[root@ip-172-31-43-74 bin]# pwd

**/etc/apache-tomcat-8.5.60/bin**

[root@ip-172-31-43-74 bin]# ./startup.sh

Neither the JAVA\_HOME nor the JRE\_HOME environment variable is defined

At least one of these environment variable is needed to run this program



1. Install Java

[root@ip-172-31-43-74 bin]# yum install java-1.8\* -y

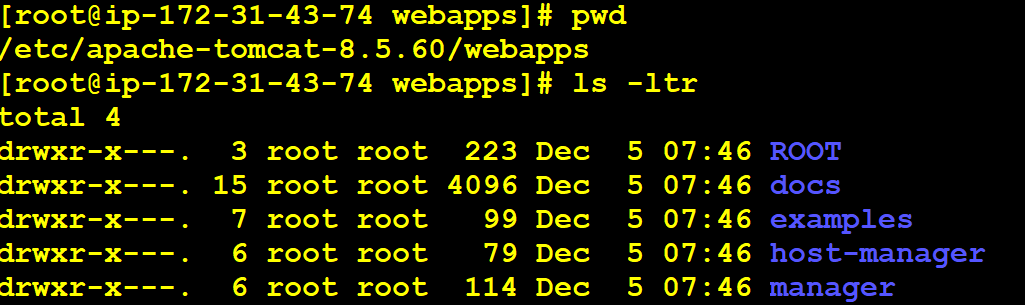
1. Start the Tomcat

cd /etc/apache-tomcat-8.5.60/bin

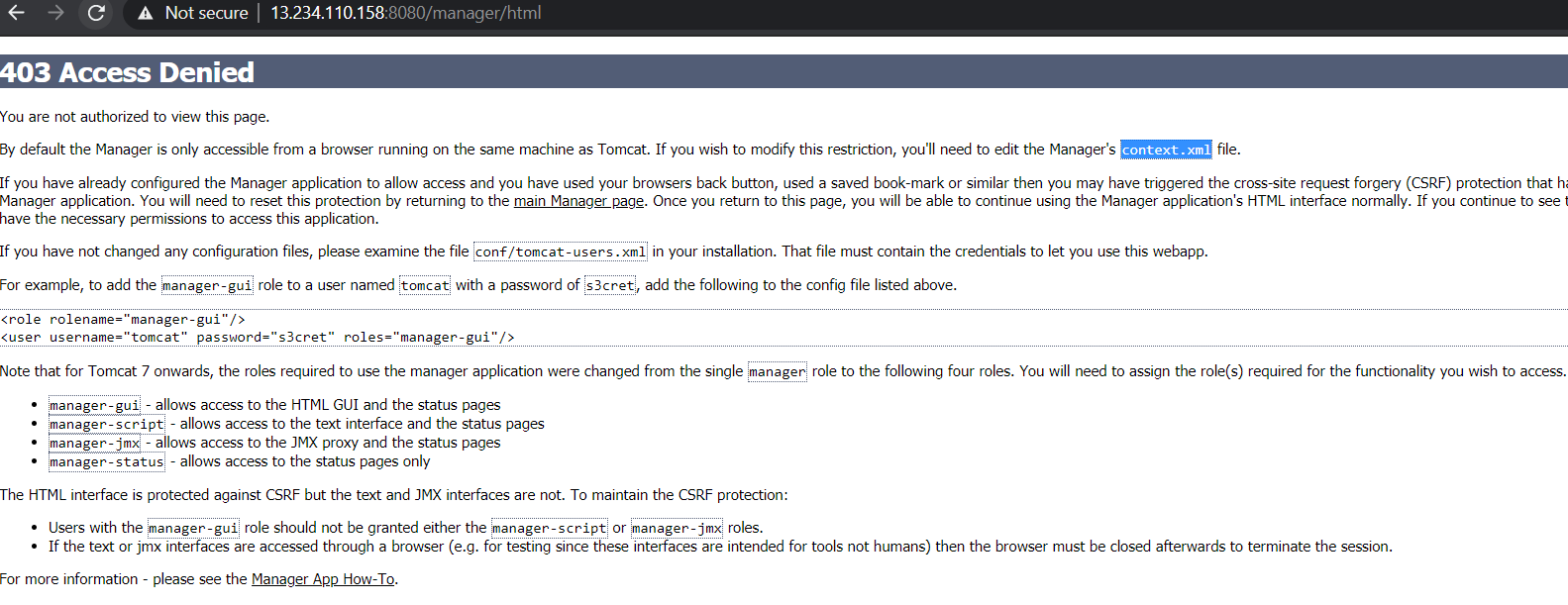
./startup.sh  
  
Tomcat starts at 8080 port by default-

[root@ip-172-31-43-74 webapps]# netstat -anp|grep 8080

tcp6 0 0 :::8080 :::\* LISTEN 13799/java

1. **cd /etc/apache-tomcat-8.5.60/webapps** and check if ROOT and manager is present or not.  
     
   
2. Try to open the manager page from Browser

http://13.234.115.11:8080/manager/



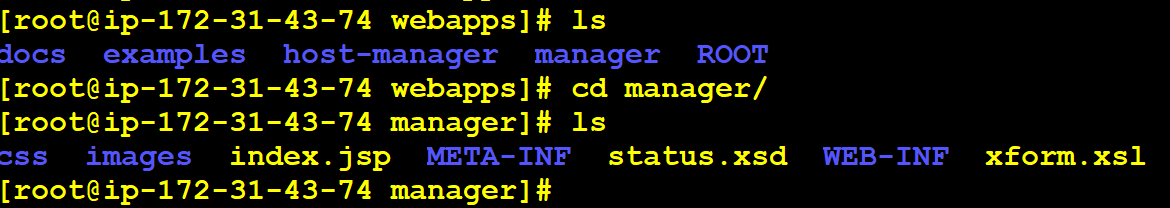
1. By Default it will blocked from remote address, so we need to update context.xml of manager to fix it.

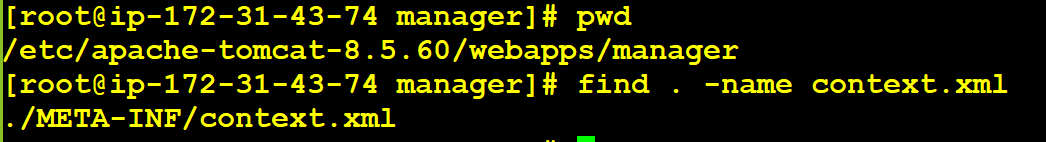
[root@ip-172-31-43-74 manager]# pwd

/etc/apache-tomcat-8.5.60/webapps/manager

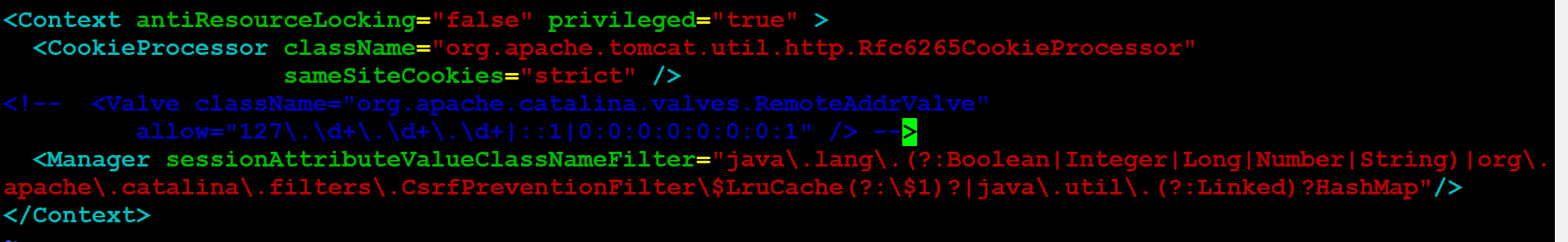
[root@ip-172-31-43-74 manager]# find . -name context.xml

./META-INF/context.xml

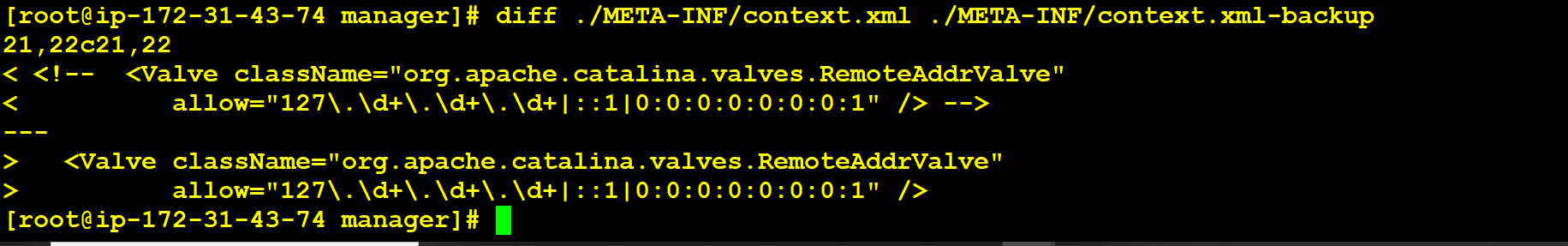




1. Update this file. Comment the Valve



Check the diff with original Backup



1. Now check the URL it will work and you should also update the tomcat-users.xml

cd /etc/apache-tomcat-8.5.60/conf

cp tomcat-users.xml tomcat-users.xml-backup

vim tomcat-users.xml  
 **update as below with entries here**-

<role rolename="admin"/>

<role rolename="admin-gui"/>

<role rolename="admin-script"/>

<role rolename="manager"/>

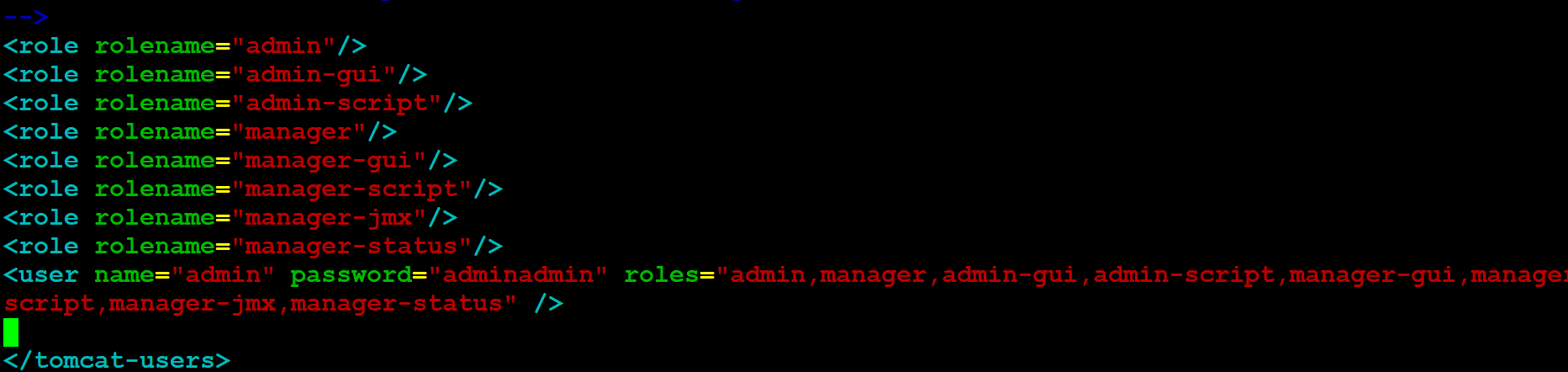
<role rolename="manager-gui"/>

<role rolename="manager-script"/>

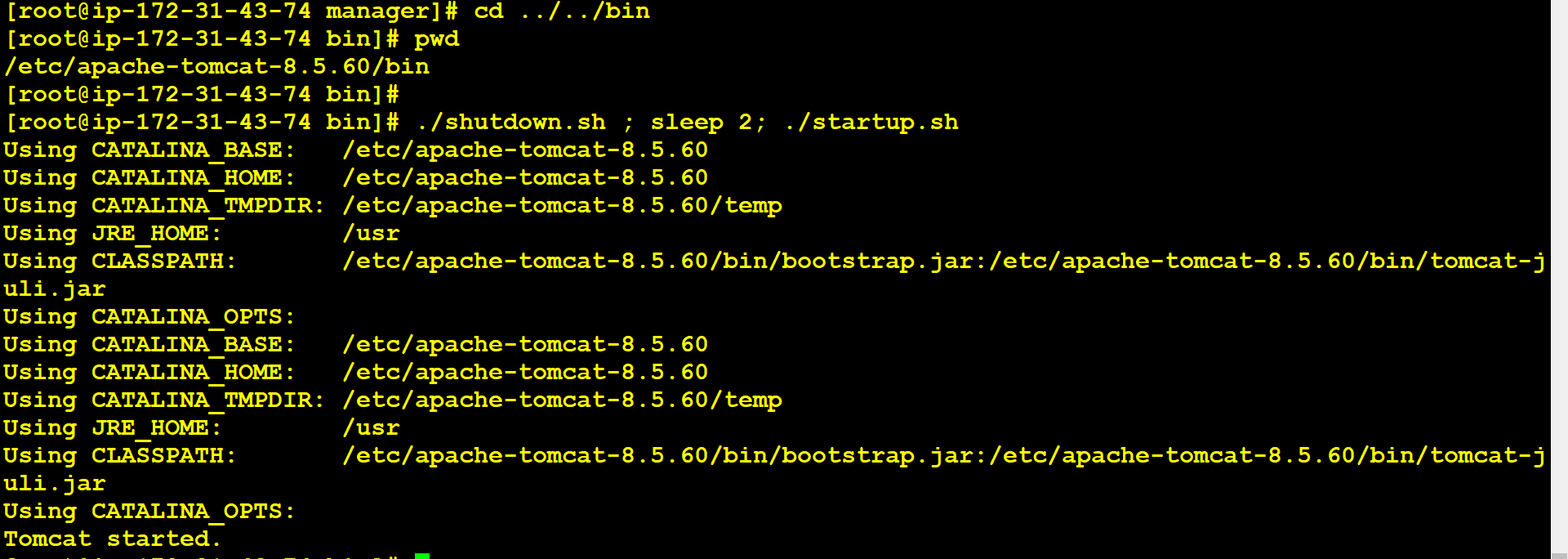
<role rolename="manager-jmx"/>

<role rolename="manager-status"/>

<user name="admin" password="adminadmin" roles="admin,manager,admin-gui,admin-script,manager-gui,manager-script,manager-jmx,manager-status" />



1. Now restart



## You can create a Soft link (Optional)

cd /etc/

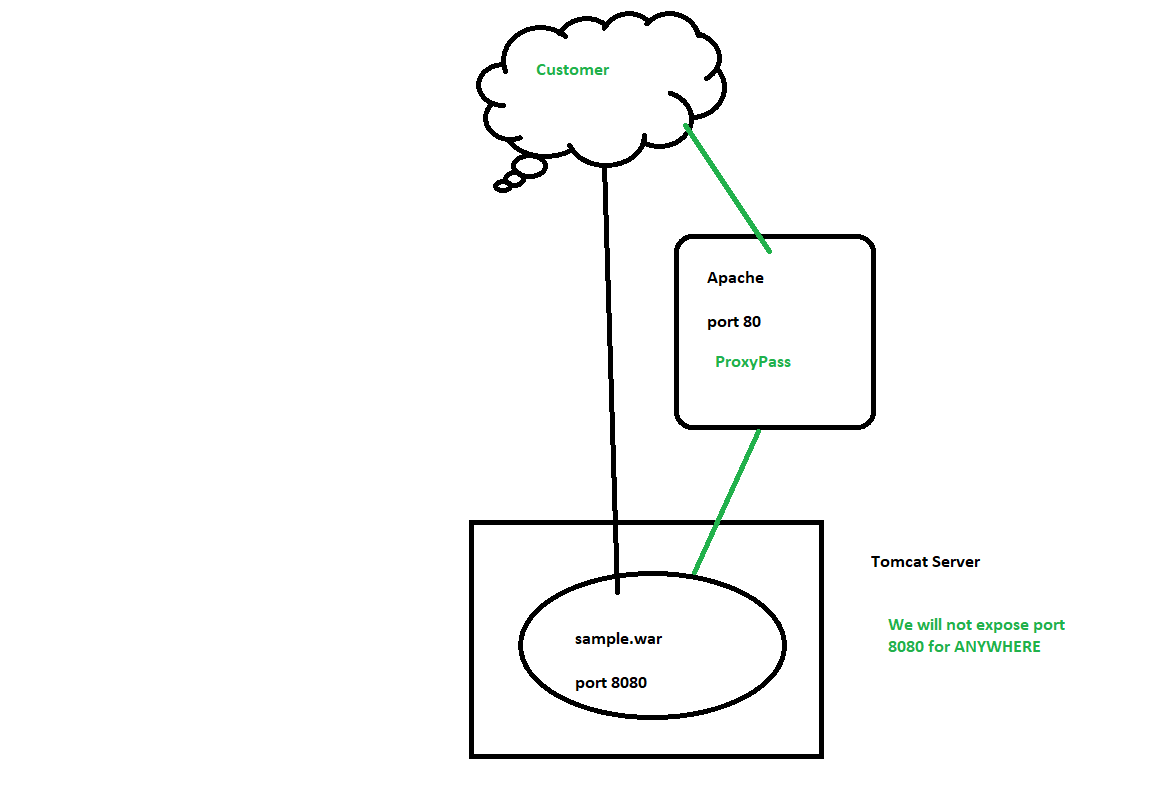
ln -s apache-tomcat-8.5.60 tomcat

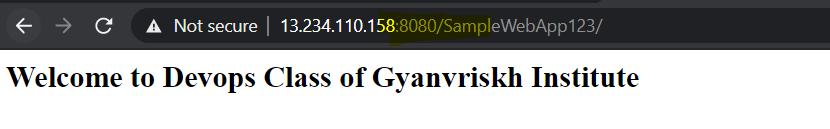
ls -ltr

lrwxrwxrwx. 1 root root 20 Dec 5 15:45 tomcat -> apache-tomcat-8.5.60

cd /etc/tomcat # CATALINA\_HOME (TOMCAT\_HOME)

# ProxyPass





1. Enable Selinux Security

setsebool -P httpd\_can\_network\_connect on

2. Install Apache

yum install httpd -y

export APACHE\_HOME=/etc/httpd #Command to set OS ENV Variable

3. cd $APACHE\_HOME/conf.d

[root@ip-172-31-43-74 conf.d]# cat proxypass.conf

ProxyPass /SampleWebApp123 http://localhost:8080/SampleWebApp123/

ProxyPassReverse /SampleWebApp123 <http://localhost:8080/SampleWebApp123/>

4. List the files

[root@ip-172-31-43-74 conf.d]# ls -ltr

total 20

-rw-r--r--. 1 root root 516 Jun 15 11:49 welcome.conf

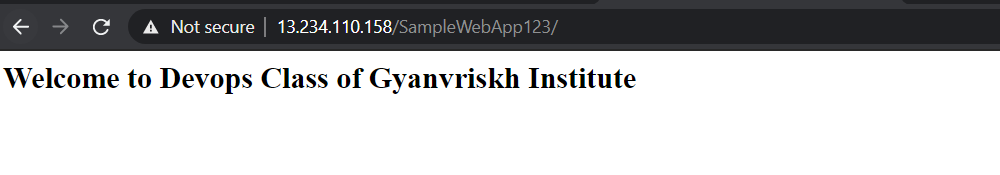
-rw-r--r--. 1 root root 1252 Jun 15 11:49 userdir.conf

-rw-r--r--. 1 root root 2926 Jun 15 11:51 autoindex.conf

-rw-r--r--. 1 root root 400 Jun 15 11:55 README

-rw-r--r--. 1 root root 139 Dec 5 08:18 proxypass.conf

1. Restart the Services and it will work



1. Block the 8080 port now for Public and you will see still your Web Application will work.

