INSTALLING TOMCAT ON RHEL

* Update the system by using below command

*sudo yum update*

* Create Group

For security purposes, Tomcat should be run as an unprivileged user (i.e. not root). Create a new user and group that will run the Tomcat service.

First, create a new tomcat group:

*sudo groupadd tomcat*

* **Create User**

Then create a new tomcat user. This user is member of the tomcat group, with a home directory of /opt/tomcat (where we will install Tomcat), and with a shell of /bin/false (so nobody can log into the account):

*sudo useradd -M -s /bin/nologin -g tomcat -d /opt/tomcat tomcat*

* Install the JAVA

*yum install java-1.8\* -y*

* Set the JAVA HOME PATH

##### JAVA HOME PATH#####

vi .bashrc

*export JAVA\_HOME="*/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.212.b04-1.el8\_0.x86\_64/jre *"*

*export PATH=$PATH:$JAVA\_HOME/bin*

. ~/.bashrc

##################################

* Install the tomcat8 on RHEL

*sudo yum install wget -y*

*mkdir /opt/tomcat*

*cd /opt/tomcat*

*wget* [*http://mirrors.estointernet.in/apache/tomcat/tomcat-8/v8.5.41/bin/apache-tomcat-8.5.41.tar.gz*](http://mirrors.estointernet.in/apache/tomcat/tomcat-8/v8.5.41/bin/apache-tomcat-8.5.41.tar.gz)

*tar -xvzf apache-tomcat-8.5.41.tar.gz*

## Update Permissions

*Cd /opt/tomcat/apache-tomcat-8.5.41*

*sudo chgrp -R tomcat conf*

*sudo chmod g+rwx conf*

*sudo chmod g+r conf/\**

Make the tomcat user the owner of the webapps, work, temp, and logs directories.

*sudo chown -R tomcat webapps/ work/ temp/ logs/*

*cd apache-tomcat-8.5.41/bin*

*./startup.sh*

* **We should allow 8080 port in Security Group, before check the tomcat Server**
* Changing default port 8080 to 8090

*cd /apache-tomcat-8.5.41/conf*

*vi server.xml*

here change port no as 8090 like below snap



Again shutdown the server and restart the Server

*Cd /opt/tomcat/apache-tomcat-8.5.41/bin*

*./shutdown.sh*

*./startup.sh*

## Run tomcat as a service

*sudo vi /etc/systemd/system/tomcat.service*

*####################################################*

*# Systemd unit file for tomcat*

*[Unit]*

*Description=Apache Tomcat Web Application Container*

*After=syslog.target network.target*

*[Service]*

*Type=forking*

*Environment=JAVA\_HOME=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.212.b04-1.el8\_0.x86\_64/jre*

*Environment=CATALINA\_PID=/opt/tomcat/apache-tomcat-8.5.41/tmp/tomcat.pid*

*Environment=CATALINA\_HOME=/opt/tomcat/apache-tomcat-8.5.41*

*Environment=CATALINA\_BASE=/opt/tomcat/apache-tomcat-8.5.41*

*Environment='CATALINA\_OPTS=-Xms512M -Xmx1024M -server -XX:+UseParallelGC'*

*Environment='JAVA\_OPTS=-Djava.awt.headless=true -Djava.security.egd=file:/dev/./urandom'*

*ExecStart=/opt/tomcat/apache-tomcat-8.5.38/bin/startup.sh*

*ExecStop=/bin/kill -15 $MAINPID*

*User=tomcat*

*Group=tomcat*

*#UMask=0007*

*#RestartSec=10*

*Restart=always*

*[Install]*

*WantedBy=multi-user.target*

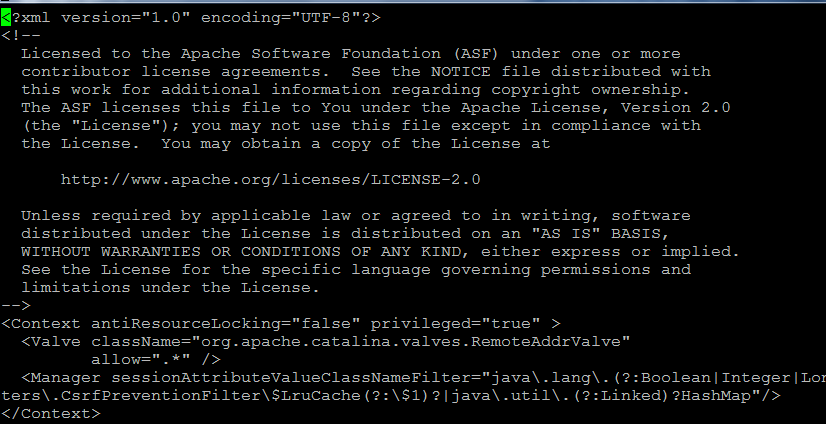
##############################################################

* Changing the permissions like below

*vi /opt/tomcat/apache-tomcat-8.5.41/webapps/host-manager/META-INF/context.xml*

*vi /opt/tomcat/apache-tomcat-8.5.41/webapps/manager/META-INF/context.xml*

Just put “.\*” or uncommit with <!-- -->



* Adding users

*vi /opt/tomcat/apache-tomcat-8.5.41/conf/tomcat-users.xml*

*<role rolename="manager-gui"/>*

*<role rolename="manager-script"/>*

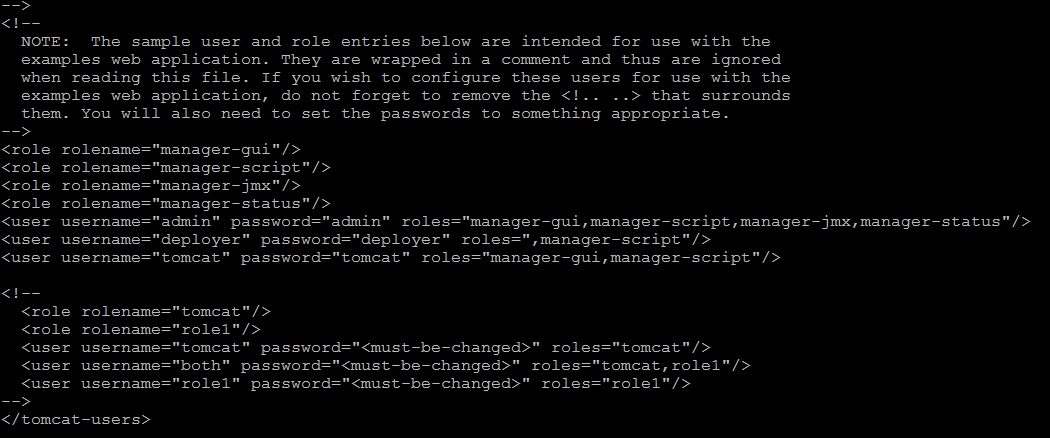
*<role rolename="manager-jmx"/>*

*<role rolename="manager-status"/>*

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

*<user username="deployer" password="deployer" roles=",manager-script"/>*

*<user username="tomcat" password="tomcat" roles="manager-gui,manager-script"/>*



Cd /opt/tomcat/apache-tomcat-8.5.41/bin

./startup.sh

* **Adding soft link to ./startup.sh and ./shutdown.sh**

1. Check the current path

*echo $PATH*

*Output:*

*/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/root/bin:/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.212.b04-1.el8\_0.x86\_64/jre/bin*

*ln -s /opt/tomcat/apache-tomcat-8.5.41/bin/startup.sh /usr/local/bin/tomcatup*

*ln -s /opt/tomcat/apache-tomcat-8.5.41/bin/shutdown.sh /usr/local/bin/tomcatdown*

now we can start tomcat from anywhere in system tomcatup

as same we can shutdown tomcat by using tomcatdown

optional :

if you want open Host Manager

Add role as a “admin-gui” in below path

vi /opt/tomcat/apache-tomcat-8.5.41/conf/tomcat-users.xml

<role rolename="admin-gui"/>

<user username="tomcat" password="s3cret" roles="admin-gui"/>

* **Command for check tomcat server status**

*ps -ef |grep tomcat*