**Install Java**

Sudo yum install java-1.7.0-openjdk-devel -y

**Create Tomcat User**

Sudo groupadd tomcat

Sudo useradd -M -s /bin/nologin -g tomcat -d /opt/tomcat tomcat

**Install Tomcat**

Wget <http://apache.mirrors.ionfish.org/tomcat/tomcat-8/v8.5.15/bin/apache-tomcat-8.5.15.tar.gz>

Sudo mkdir /opt/tomcat

Sudo tar xvf apache-tomcat-8.5.15.tar.gz -C /opt/tomcat – strip-components=1

**Update Permissions**

Cd /opt/tomcat = Change to tomcat installation

Sudo chgrp -R tomcat /opt/tomcat == “Give tomcat group ownership over the entire installation dir”

Sudo chmod -R g+r conf === give tomcat group read access on “conf” dir and its contents

Sudo chmod g+x conf ===give tomcat group execute access to “conf” directory only

Sudo chwon -R tomcat webapps/ work/ temp/ logs/ == tomcat group owner of this folders

**Install Systemd file**

Sudo vi /etc/system/system/tomcat.service

Write the below code there:

# 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/jre

Environment=CATALINA\_PID=/opt/tomcat/temp/tomcat.pid

Environment=CATALINA\_HOME=/opt/tomcat

Environment=CATALINA\_BASE=/opt/tomcat

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

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

ExecStart=/opt/tomcat/bin/startup.sh

ExecStop=/bin/kill -15 $MAINPID

User=tomcat

Group=tomcat

UMask=0007

RestartSec=10

Restart=always

[Install]

WantedBy=multi-user.target

The above script tells to run tomcat service as tomcat user.

Sudo systemctl start tomcat === start service

Sudo systemctl status tomcat ==== check status “it should show that it is running”

Using your browser check localhost:8080 to verify if the service is running or not.

**Manage the Tomcat Web Management Interface – Adding User**

sudo vi /opt/tomcat/conf/tomcat.xml == we have list of users and roles specified in this file.

<tomcat-users>

<role rolename=”manager-gui”/>

<role rolename=”admin-gui”/>

<user username=”mukhasir” password=”mukhasir” roles=”manager-gui,admin-gui”/>

</tomcat-users>

**Install MySQL DB**

Wget <https://dev.mysql.com/get/mysql57-community-release-el7-11.noarrch.rpm>

Md5sum mysql57-community-release-el7-11.noarrch.rpm

Sudo rpm -ivh mysql57-community-release-el7-11.noarrch.rpm

Sudo yum install mysql-server

**Start MySQL Db**

sudo systemctl start mysqld

during installing a temporary password is set which would be present in ‘/var/log/mysqld.log’ with ‘temporary password’

Once when we want to secure installation

Sudo mysql\_secure\_installation === set a new password

For Testing MySQL

Mysqladmin -u root -p (-u for root and -p to prompt password)