**Tomcat installation on EC2 instance**

**Prerequisites**

sudo yum install java-1.8.0-openjdk-devel

Put below path in env variable

**/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.222.b10-0.amzn2.0.1.x86\_64**

**Install Apache Tomcat**

Download tomcat packages from http://apachemirror.wuchna.com/tomcat/tomcat-8/v8.5.49/bin/apache-tomcat-8.5.49.tar.gz

onto /opt on EC2 instance below is the command

# create tomcat directory

cd /opt

wget http://apachemirror.wuchna.com/tomcat/tomcat-8/v8.5.49/bin/apache-tomcat-8.5.49.tar.gz

tar -xvzf /opt/apache-tomcat-8.5.49.tar.gz

give executing permissions to startup.sh and shutdown.sh which are under bin.

chmod +x /opt/apache-tomcat-8.5.49/bin/startup.sh

chmod +x /opt/apache-tomcat-8.5.49/bin/shutdown.sh

create link files for tomcat startup.sh and shutdown.sh

ln -s /opt/apache-tomcat-8.5.49/bin/startup.sh /usr/local/bin/tomcatup

ln -s /opt/apache-tomcat-8.5.49/bin/shutdown.sh /usr/local/bin/tomcatdown

tomcatup

**check point :**

access tomcat application from browser on prot 8080  
http://<Public\_IP>:8080

Using unique ports for each application is a best practice in an environment. But tomcat and Jenkins runs on ports number 8080. Hence lets change tomcat port number to 8090. Change port number in conf/server.xml file under tomcat home

cd /opt/apache-tomcat-8.5.35/conf

# update port number in the "connecter port" field in server.xml

# restart tomcat after configuration update

tomcatdown

tomcatup

**check point :**

access tomcat application from browser on prot 8090  
http://<Public\_IP>:8090

now application is accessible on port 8090. but tomcat application doesnt allow to login from browser. changing a default parameter in context.xml does address this issue

#search for context.xml

find / -name context.xml

above command gives 3 context.xml files. comment (<!--<Valve className="org.apache.catalina.valves.RemoteAddrValve"

allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" />-->) Value ClassName field on files which are under webapp directory. After that restart tomcat services to effect these changes

tomcatdown

tomcatup

Update users information in the tomcat-users.xml file goto tomcat home directory and Add below users to conf/tomcat-user.xml file

<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="s3cret" roles="manager-gui"/>

Restart serivce and try to login to tomcat application from the browser. This time it should be Successful