**Pre-requisites**

1. EC2 instance with Java 11

**Install Apache Tomcat**

1. Download tomcat packages from <https://tomcat.apache.org/download-80.cgi> onto /opt on EC2 instance

Note: Make sure you change <version> with the tomcat version which you download.

# Create tomcat directory

cd /opt

wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.60/bin/apache-tomcat-9.0.60.tar.gz

tar -xvzf /opt/apache-tomcat-<version>.tar.gz

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

chmod +x /opt/apache-tomcat-<version>/bin/startup.sh

chmod +x /opt/apache-tomcat-<version>/bin/shutdown.sh

Note: you may get below error while starting tomcat incase if you dont install Java  
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. create link files for tomcat startup.sh and shutdown.sh

ln -s /opt/apache-tomcat-<version>/bin/startup.sh /usr/local/bin/tomcatup

ln -s /opt/apache-tomcat-<version>/bin/shutdown.sh /usr/local/bintomcatdown

tomcatup

**Check point :**

access tomcat application from browser on port 8080

* http://<Public\_IP>:8080

1. now application is accessible on port 8080. but tomcat application doesnt allow to login from browser. changing a default parameter in context.xml does address this issue
2. #search for context.xml

find / -name context.xml

1. above command gives 3 context.xml files. comment () Value ClassName field on files which are under webapp directory. After that restart tomcat services to effect these changes. At the time of writing this lecture below 2 files are updated.

/opt/tomcat/webapps/host-manager/META-INF/context.xml

/opt/tomcat/webapps/manager/META-INF/context.xml

# Restart tomcat services

tomcatdown

tomcatup

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

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