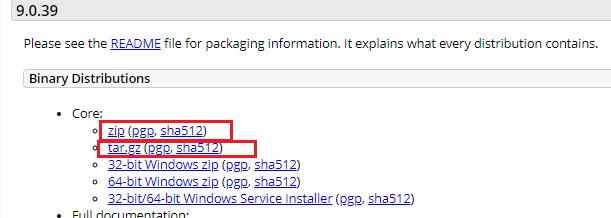
**Tomcat Tutorial**

**Prerequisites: install JDK 8.(install and should be set java user env variables(JAVA\_HOME) and system Env variables (jdk bin path))**

[**https://tomcat.apache.org/download-80.cgi**](https://tomcat.apache.org/download-80.cgi) (must download tomcat 8.5v)

**Zip ->for windows**

**Tar -> for Linux**

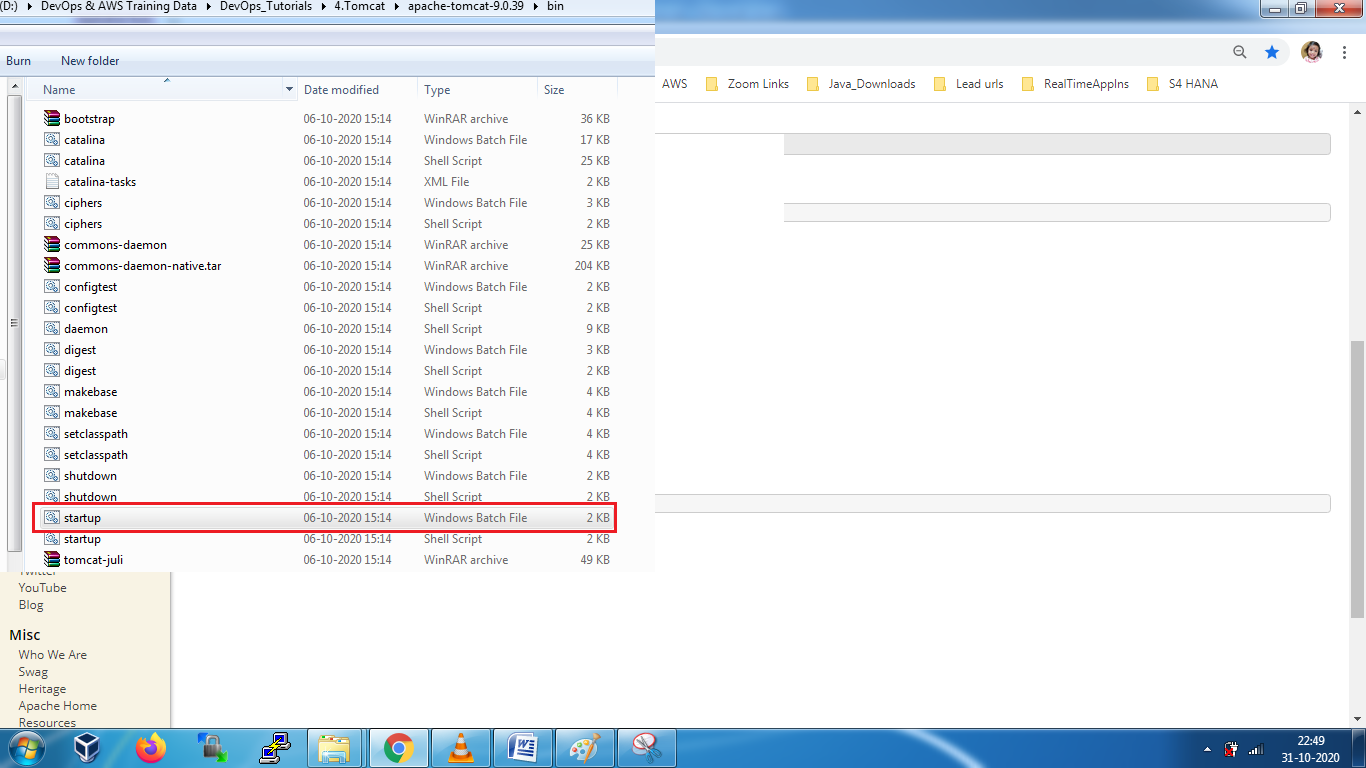
****

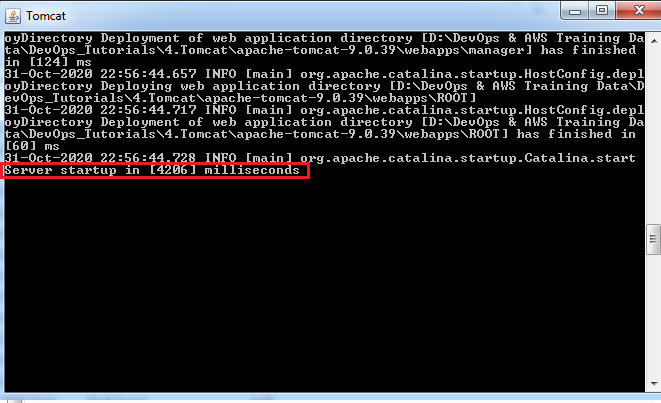
**Extract the tomcat zip file.**

****

**Goto path: D:\DevOps & AWS Training Data\DevOps\_Tutorials\4.Tomcat\apache-tomcat-9.0.39\bin**

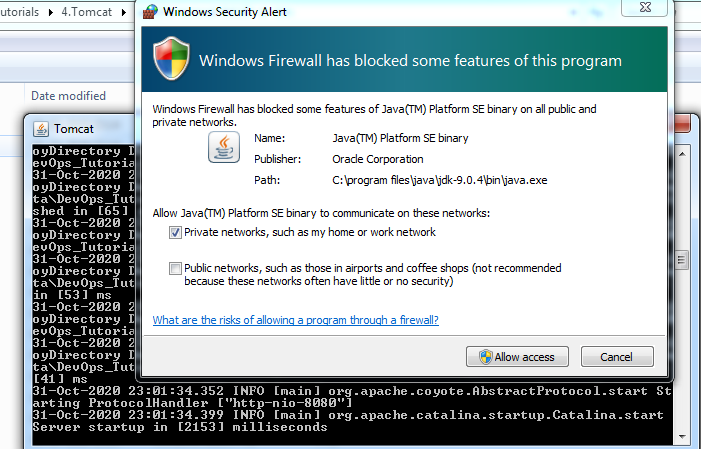
**Double Click on startup windows batch file. (if not opened tomcat server window ,try with cmnd to run startup.bat file)**

****

****

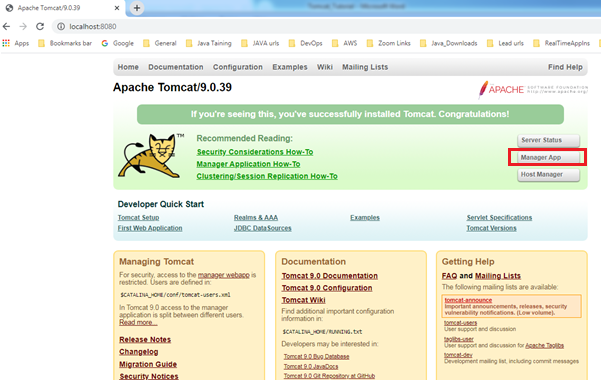
**Open in browser:** [**http://localhost:8080/**](http://localhost:8080/)

**Note: with 8080 port, if any other service is running pls stop that services and restart tomcat startup tomcat server again .**

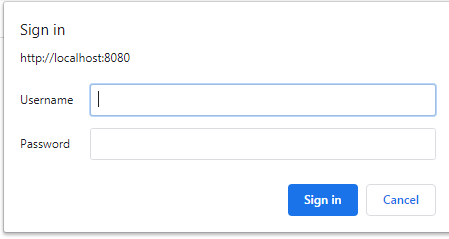
****

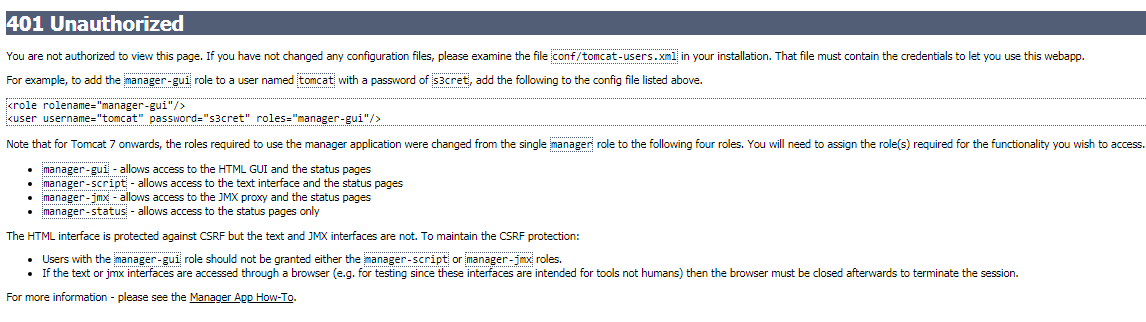
**click allow access**

**Click on manager App**

****

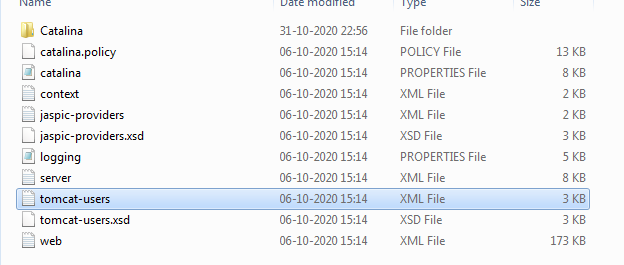
**Click cancel on first time.**

****

****

**We need to set un/pwd for first time access .**

**Goto: D:\DevOps & AWS Training Data\DevOps\_Tutorials\4.Tomcat\apache-tomcat-9.0.39\conf**

****

**Open tomcat –users. xml file**

**Remove or comment existing xml tags.**

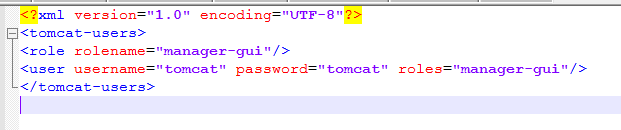
<?xml version="1.0" encoding="UTF-8"?>

<tomcat-users>

<role rolename="manager-gui"/>

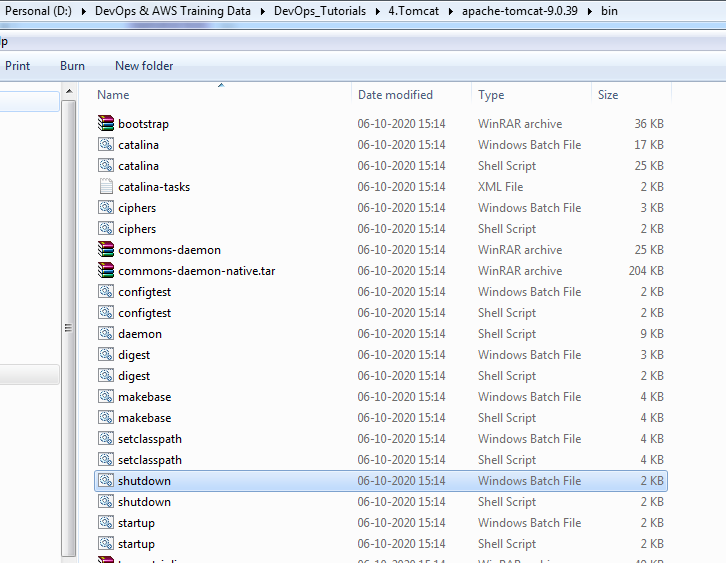
<user **username="tomcat"** **password="tomcat"** roles="manager-gui"/>

</tomcat-users>

****

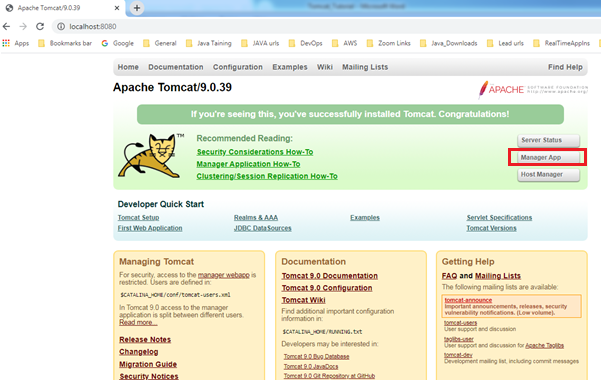
**Note:- we have created pwd , for reflect those credentials need to restart tomcat server.**

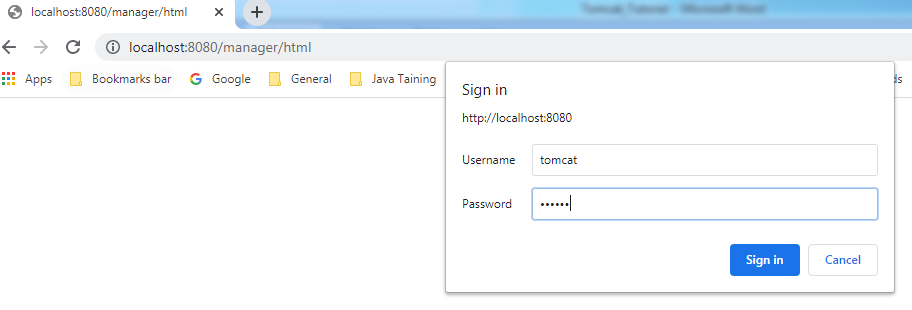
**Double click Shutdown batch file**

****

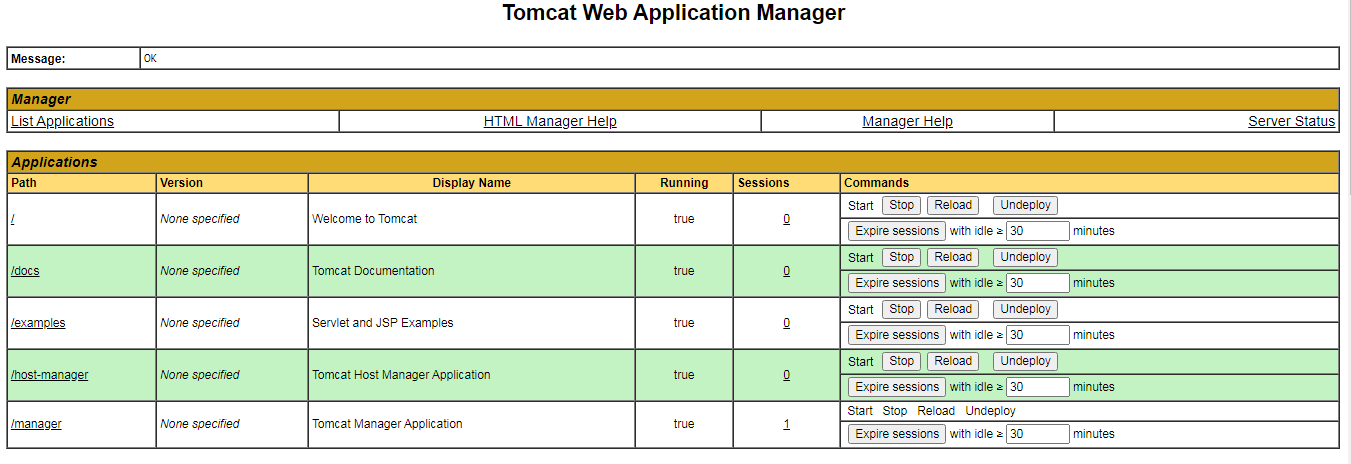
**Open in browser:** [**http://localhost:8080/**](http://localhost:8080/)

**Click on manager App**

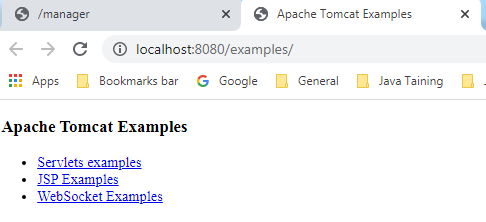
****

****

**Here deployed applns will show under manager .**

****

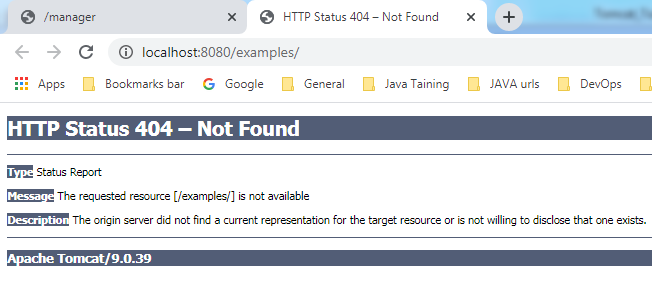
**Open examples link, stop and start to check it working appln url or not.**

****

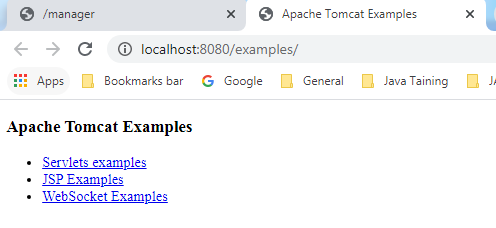
**stop**

****

**Refresh**

****

**Again start and refresh url.**

****

**Start -> start the appln**

**Stop -> stop the appln**

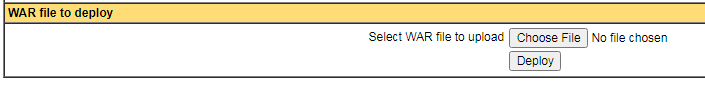
**Reload -> reload the appln**

**Undeploy -> undeploy the appln (remove appln)**

**Expire Session -> in 30 mints session will expire (ex: while doing payment gateway )**

****

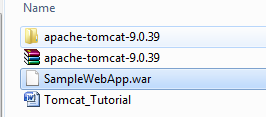
**Choose war file and deploy**

****

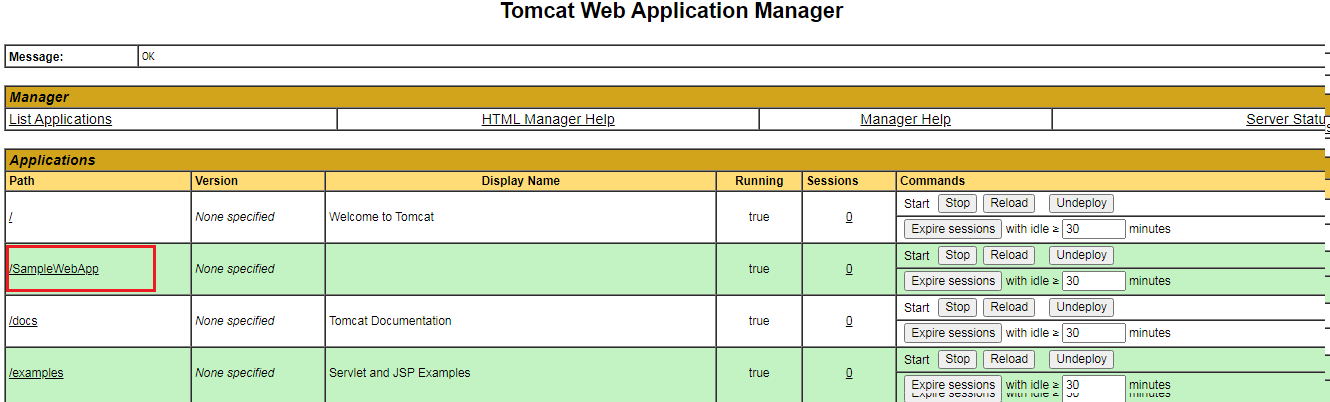
**Select any sample war file (download sample war file)**

[**https://www.middlewareinventory.com/blog/sample-web-application-war-file-download/**](https://www.middlewareinventory.com/blog/sample-web-application-war-file-download/)

****

****

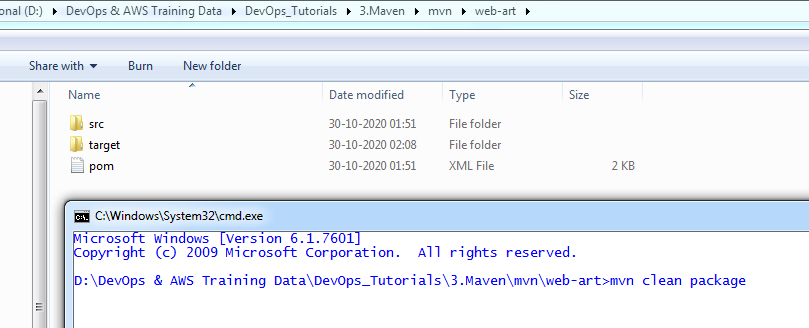
**Deployed war file**

****

**Click undeploy the SampleWebApp**

**How to create our own war file web project:-**

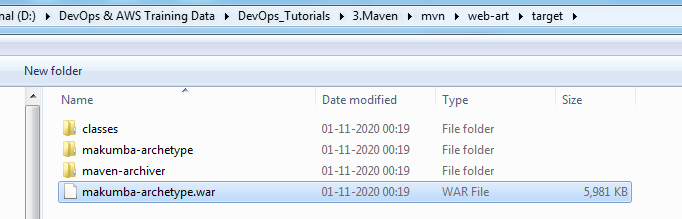
**Got any existing web project run cmnd: mvn clean package**

****

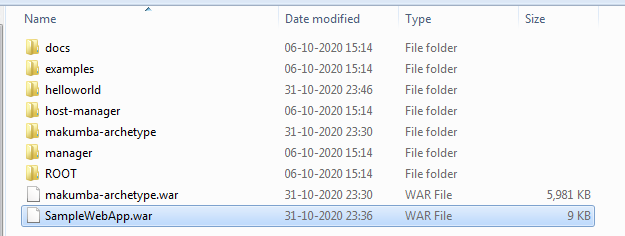
**Build success.**

****

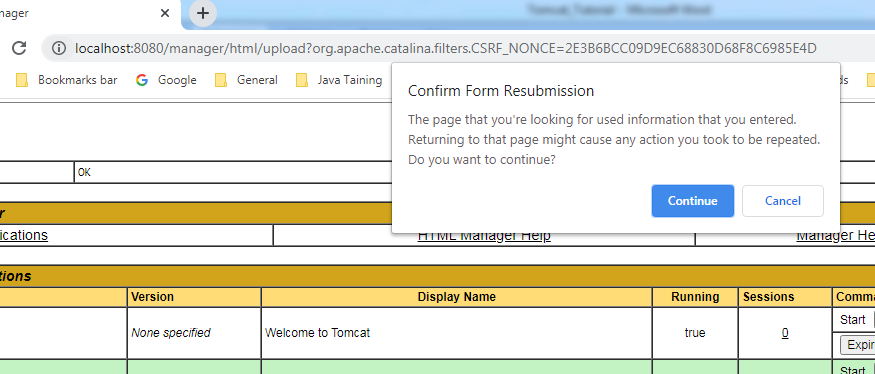
**Latest war file created under target folder.**

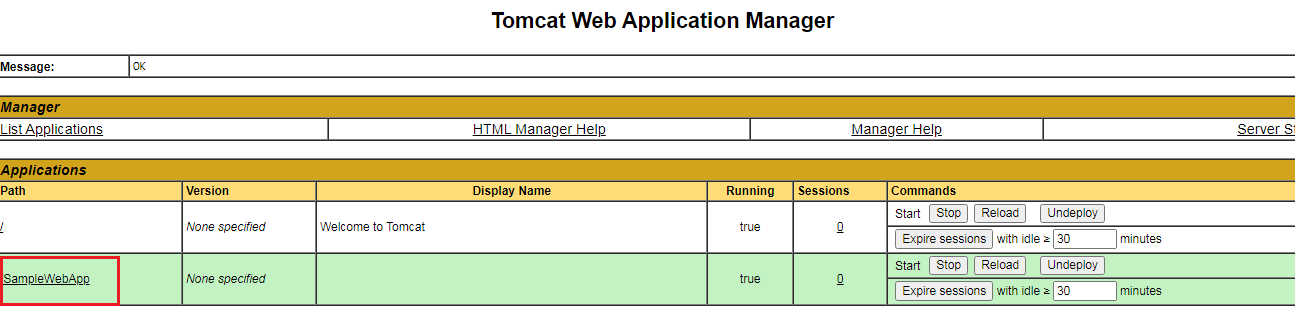
****

**How to Deploy manually**

****

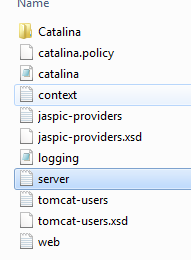
**Refresh url**

****

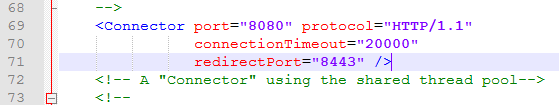
**Deployed**

**How to change tomcat port number :-**

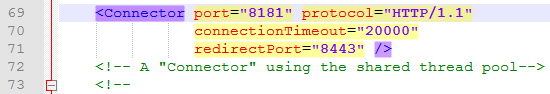
**Goto : D:\DevOps & AWS Training Data\DevOps\_Tutorials\4.Tomcat\apache-tomcat-9.0.39\conf**

****

**By default port : 8080**

****

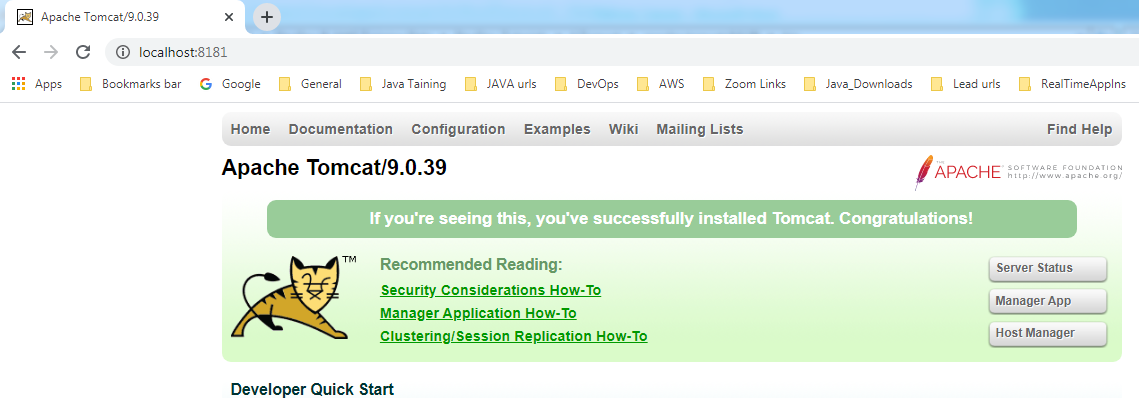
**Change here port to 8181.**

****

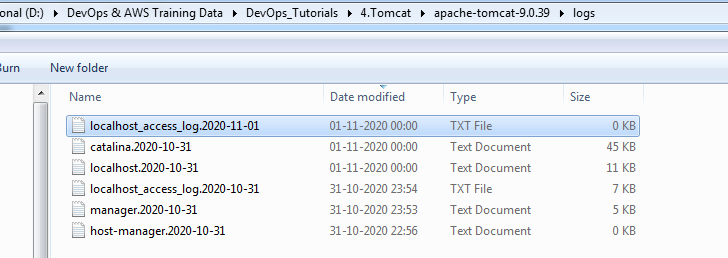
**Restart the tomcat server :-**

**Shutdown and startup batch files.**

**Port number changed .**

****

**For logs:-**

****

**Open latest log file and verify .**

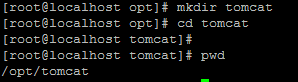
**How to install Tomcat and deploy war file into Linux Env(Cent OS) :- RT**

Start VMWare Work Station and Cent OS.

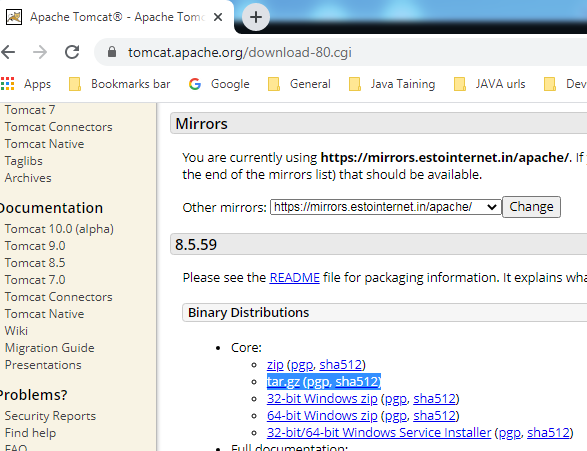
Goto opt dir.



Create tomcat dir and goto tomcat dir.

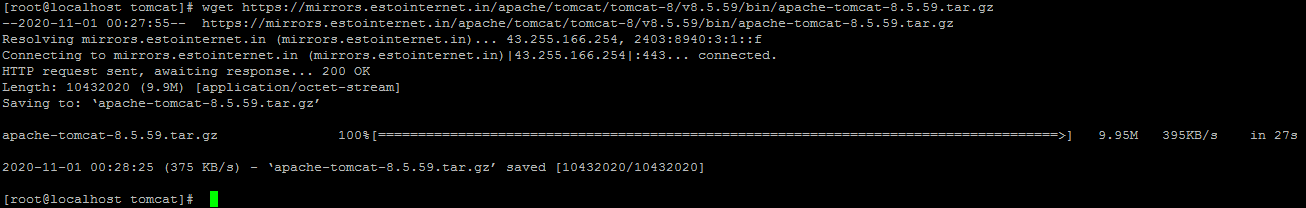


[**https://tomcat.apache.org/download-80.cgi**](https://tomcat.apache.org/download-80.cgi)



[root@localhost tomcat]# wget <https://mirrors.estointernet.in/apache/tomcat/tomcat-8/v8.5.59/bin/apache-tomcat-8.5.59.tar.gz> (download tomcat tar file)

Downloaded successfully .





**Extract tar file**

**[root@localhost tomcat]# tar -xvf apache-tomcat-8.5.59.tar.gz**

****

**Goto tomcat dir**

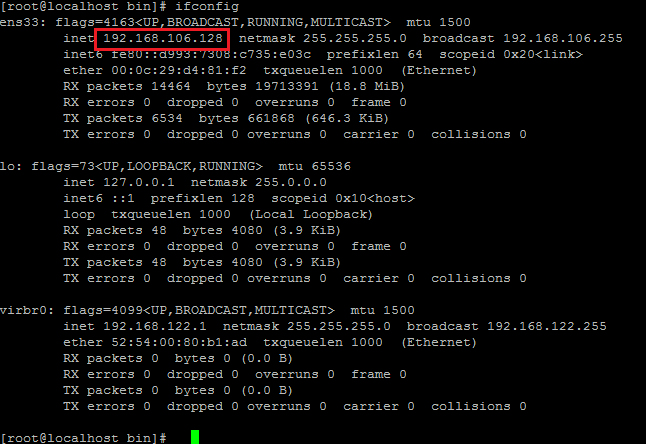
****

**[root@localhost apache-tomcat-8.5.59]# cd /bin ->dir and start tomcat startup.sh script.**

****

**Check port number : [root@localhost bin]# ifconfig**

**192.168.106.128**

****

**[root@localhost bin]# iptables –F -> if any blocks it will show to connect IP - enable the firewalls.**

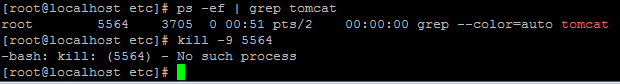
****

**grep -> global regular expression (grep means searching)**

**[root@localhost etc]# ps -ef | grep tomcat -> only display tomcat service process details.**

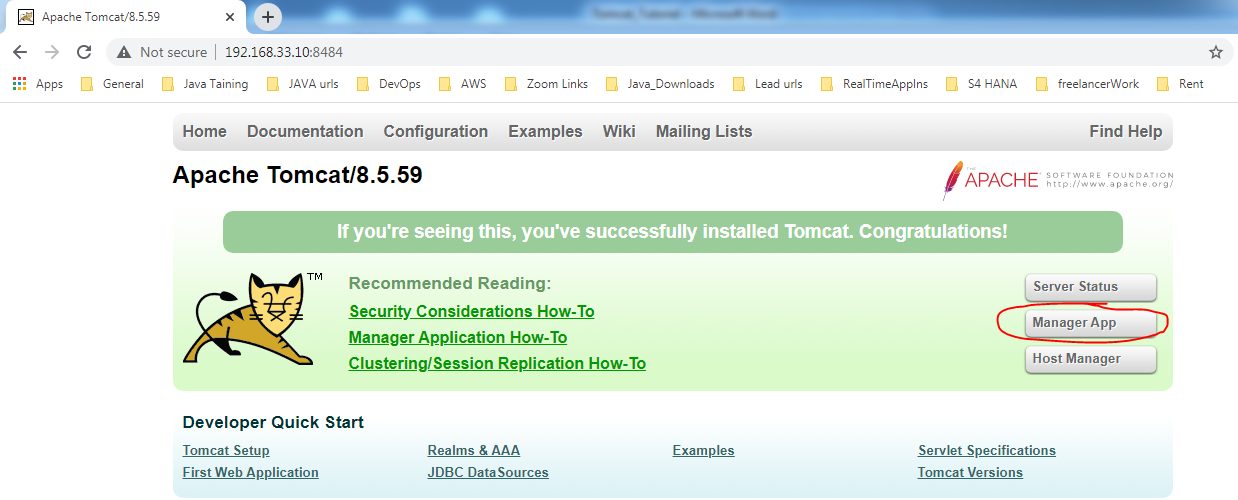
****

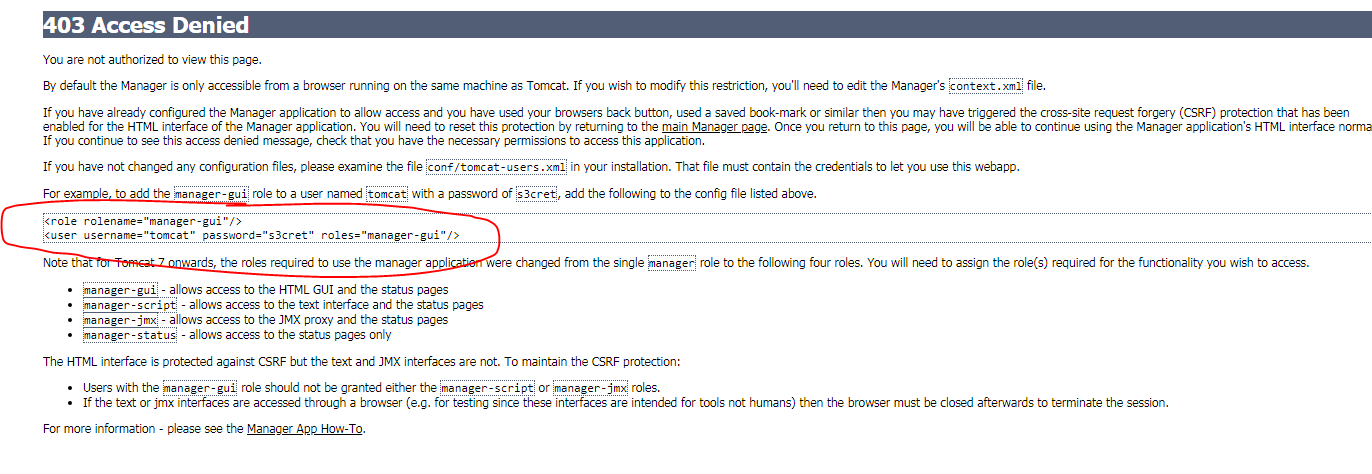
**[root@localhost etc]# kill -9 5564 -> kill any process with pid**

****

**But here tomcat is not processing just we used tomcat to search it will show. After running any process services we will kill it.**

[**http://192.168.106.128:8484/**](http://192.168.106.128:8484/)

****

****

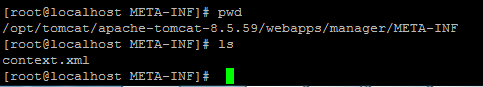
**If any port binding error:- Provide new port and save file.(server.xml)**

**[root@localhost conf]# vi server.xml**

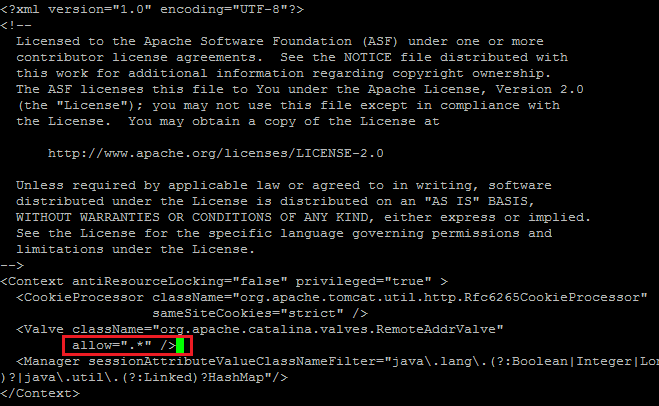
****

**if not open the manager App -> Do the below steps.**

**Got to path :- /opt/tomcat/apache-tomcat-8.5.59/webapps/manager/META-INF**

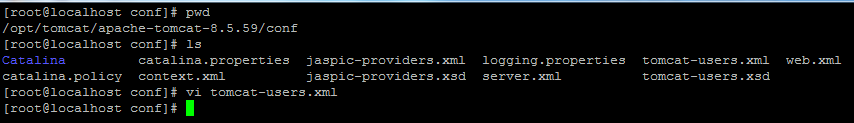
****

**Remove the allow ip address and keep .\* to access any ip address.**

****

**Shutdown tomcat server and start the tomcat server again.**

**Goto conf dir: /opt/tomcat/apache-tomcat-8.5.59/conf**

****

**[root@localhost conf]# vi tomcat-users.xml**

**Comment the existing tag or remove it. (for comment - <!-- -->)**

****

**Open tomcat –user. xml file**

**Remove or comment existing all xml tags and replace below tags.**

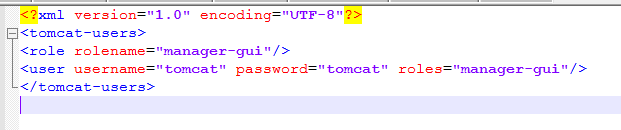
<?xml version="1.0" encoding="UTF-8"?>

<tomcat-users>

<role rolename="manager-gui"/>

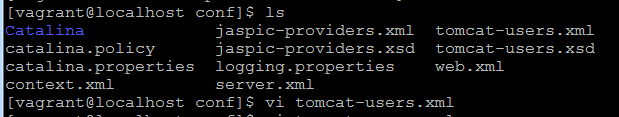
<user username="tomcat" password="tomcat" roles="manager-gui"/>

</tomcat-users>

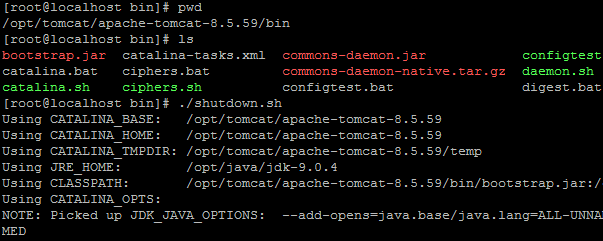
****

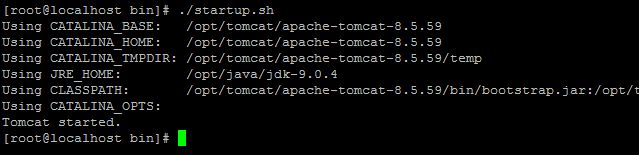
**Note:- we have created pwd , for reflect those credentials need to restart tomcat.**

**Goto conf and tomcat-users.xml**

****

**Shutdown the server and startup the server.**

****

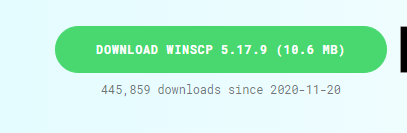
****

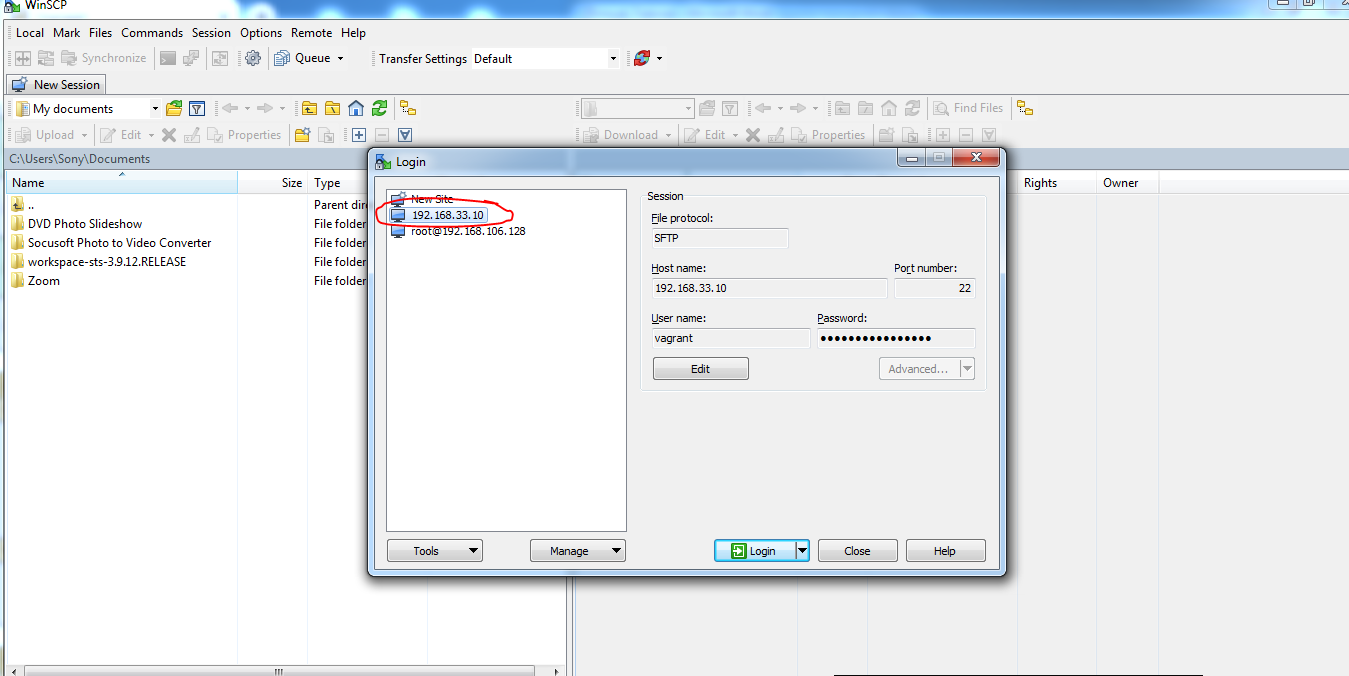
**Open :** [**http://192.168.106.128:8484/**](http://192.168.106.128:8484/)

**Manager App -> provide un/pwd (tomcat/tomcat).**

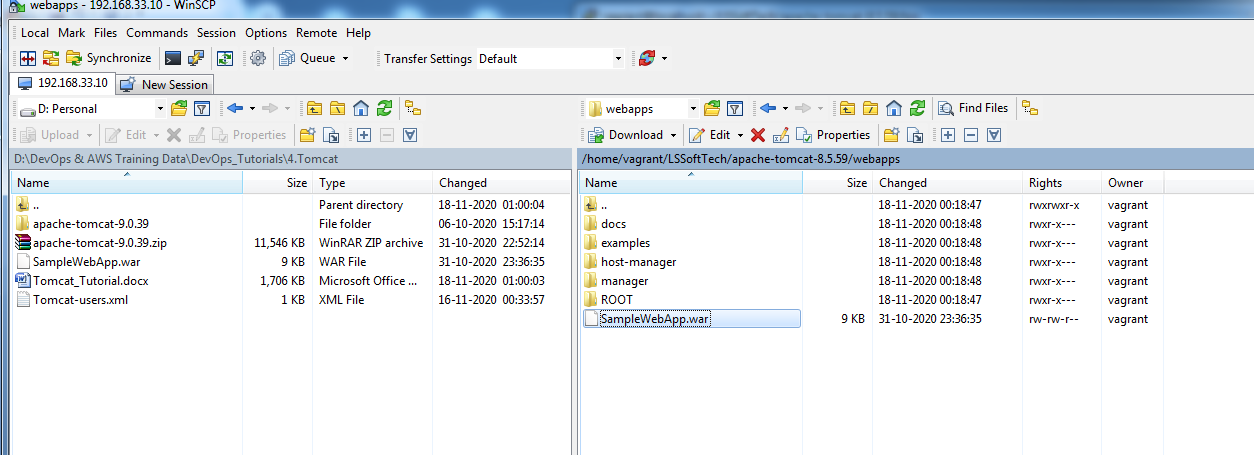
**Deploy war file into webapps dir through WnSCP tool into linux webapps folder.**

[**https://winscp.net/eng/download.php**](https://winscp.net/eng/download.php)

** install it**

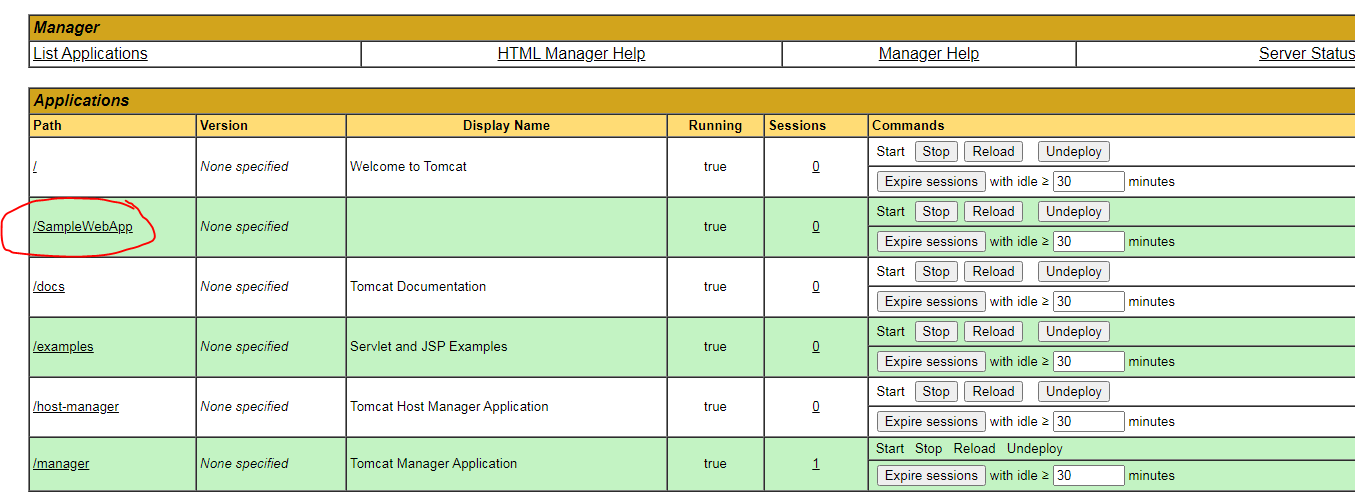
****

**Drag and drop the war file from windows to linux webapps dir**

****

**Shutdown the tomcat server and startup the server.(optional)**

**Open :** [**http://192.168.106.128:8484/**](http://192.168.106.128:8484/)

****

**Manager App -> provide un/pwd (tomcat/tomcat).**

**We can see the deployed war file.-> click war file web project will open.**

****

**=========================================Tomcat END=============================================**