TOMCAT INSTALLATION

Step: 1

- Update the package index
- Command : sudo apt update

Step: 2

- Install OpenJDK11
- Command: sudo apt install openjdk-11-jdk
- Check the installed java version to confirm that OpenJDK 11 is installed
- command: java -version

Step: 3

- Create a Tomcat user
- Command : sudo useradd -m -U -d /opt/tomcat -s /bin/false
 tomcat

Step: 4

- Download tomcat
- Navigate to the /temp directory give : cd /temp
- Download tomcat version 8.5.100
- Command: sudo wget
 https://archive.apache.org/dist/tomcat/tomcat 8/v8.5.100/bin/apache-tomcat-8.5.100.zip

Step:5

- Extract the tomcat package zip file
- Command: unzip apache-tomcat-*.zip
- Move the tomcat package to /opt/tomcat
- Command: sudo mv apache-tomcat-*//opt/tomcat/

Step: 6

- Create a symbolic link to the tomcat installation

- Create a symbolic link named latest that points to the tomcat installation directory ,making it easier to refer to the current version
- Command : sudo In -s /opt/tomcat/apache-tomcat-*
 /opt/tomcat/latest

Step:7

- Give the permission to tomcat user of tomcat installation directory
- Command: sudo chown -R tomcat: /opt/tomcat

Step:8

- Create a systemd service file for tomcat
- Open a new service file
- Command: sudo nano /etc/systemd/system/tomcat.service
- Add the following content into it

[Unit]

Description=Tomcat 8.5 servlet container

After=network.target

[Service]

Type=forking

User=tomcat

Group=tomcat

Environment="JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64/bin/java"

Environment="JAVA_OPTS=-Djava.security.egd=file:///dev/urandom"

Environment="CATALINA BASE=/opt/tomcat/latest"

Environment="CATALINA_HOME=/opt/tomcat/latest"

Environment="CATALINA_PID=/opt/tomcat/temp/tomcat.pid"

Environment="CATALINA_OPTS=-Xms512M -Xmx1024M -server - XX:+UseParallelGC"

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

ExecStop=/opt/tomcat/latest/bin/shutdown.sh

[Install]

WantedBy=multi-user.target

- Save and close the file

Step: 9 Start tomcat Automatically run

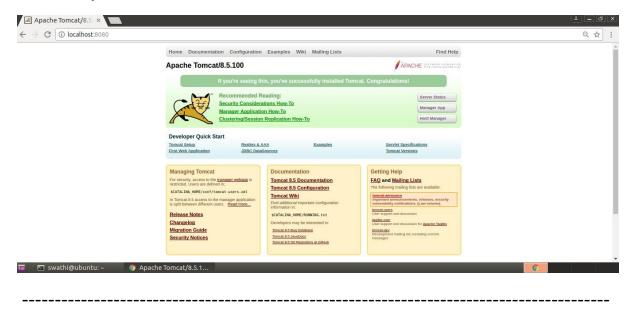
- Reload the system daemon to apply the new service file
- Command: sudo systemctl daemon-reload
- Start the tomcat service
- Command : sudo systemctl start tomcat
- Enable tomcat to start on boot:
- Command : sudo systemctl enable tomcat
- Verify tomcat is running or not give command : sudo systemctl
 status tomcat

Step :10 Starting tomcat Manually run (am facing issue in automatic start so currently am using manually process)

- Navigate to tomcat bin directory
- Command: cd /opt/tomcat/latest/bin
- Start tomcat to run startup.sh script
- Command: ./startup.sh
- Stop tomcat use the **shutdown.sh** script
- Command: ./shutdown.sh

Step: 11

- Access tomcat to open a web browser
- http://localhost:8080



DEPLOY AN APPLICATION IN TOMCAT SETUP

Step:1

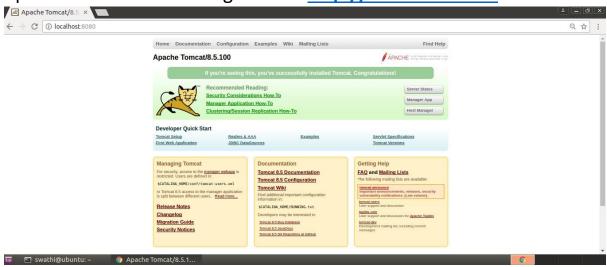
- Edit the tomcat users configuration
- Command: sudo nano /opt/tomcat/latest/conf/tomcat-users.xml
- Add manager user (add this inside the <tomcat-users> tag

<role rolename="manager-gui"/>

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

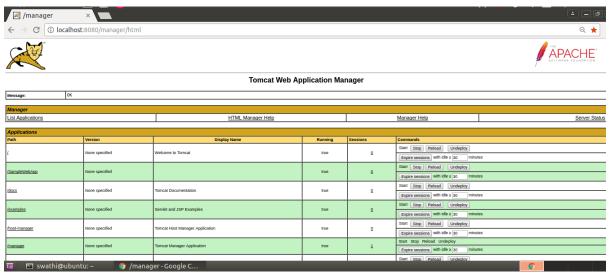
Step: 2

- Start the tomcat service if you're running in manually
- cd /opt/tomcat/latest/bin
- ./startup.sh
- Or if you're using systemd give command: sudo systemctl start tomcat
- open a web browser and go to link http://localhost:8080



Step: 3

In the tomcat show home page ,click Manager App and opened it



Step: 4

- Deploy a war file
- Go to google search sample war file for tomcat download it

- And upload in war file to deploy

Deploy directory or WAR file located on server	
Context Path (required):	
XML Configuration file path:	
WAR or Directory path:	
Deploy	
WAR file to deploy	
Select WAR file to upload Choose File sample.war	
Deploy	

Step:5

- Access the application give url : http://localhost/project-name
- localhost:8080/sample

