https://www.digitalocean.com/community/tutorials/install-tomcat-9-ubuntu-1804

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sudo apt update

sudo apt install default-jdk

Create Tomcat User

sudo groupadd tomcat

sudo useradd -s /bin/false -g tomcat -d /opt/tomcat tomcat

Install Tomcat

cd /tmp

curl -O https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.54/bin/apache-tomcat-9.0.54-fulldocs.tar.gz

sudo mkdir /opt/tomcat

sudo tar xzvf apache-tomcat-\*tar.gz -C /opt/tomcat --strip-components=1

Update Permissions

cd /opt/tomcat

sudo chgrp -R tomcat /opt/tomcat

sudo chmod -R g+r conf

sudo chmod g+x conf

sudo chown -R tomcat webapps/ work/ temp/ logs/

Create a systemd Service File

sudo update-java-alternatives -l

sudo nano /etc/systemd/system/tomcat.service

/etc/systemd/system/tomcat.service

[Unit]

Description=Apache Tomcat Web Application Container

After=network.target

[Service]

Type=forking

Environment=JAVA\_HOME=/usr/lib/jvm/java-1.11.0-openjdk-amd64

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=/opt/tomcat/bin/shutdown.sh

User=tomcat

Group=tomcat

UMask=0007

RestartSec=10

Restart=always

[Install]

WantedBy=multi-user.target

sudo systemctl daemon-reload

sudo systemctl start tomcat

sudo systemctl status tomcat

Adjust the Firewall and Test the Tomcat Server

sudo ufw allow 8080

http://10.10.10.152:8080

http://server\_domain\_or\_IP:8080

sudo systemctl enable tomcat

Configure Tomcat Web Management Interface

sudo nano /opt/tomcat/conf/tomcat-users.xml

<tomcat-users . . .>

<user username="admin" password="Ctel@123" roles="manager-gui,admin-gui"/>

</tomcat-users>

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

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

context.xml files for Tomcat webapps

<Context antiResourceLocking="false" privileged="true" >

<!--<Valve className="org.apache.catalina.valves.RemoteAddrValve"

allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" />-->

</Context>

sudo systemctl restart tomcat

Access the Web Interface

http://10.10.10.152:8080