**Rondus Technologies**

**Name:**

**LAB - Tomcat Installation/Setup**

**# install Java JDK 1.8+ as a pre-requisite for tomcat to run.**

cd /opt

sudo yum install git wget -y

sudo yum install java-1.8.0-openjdk-devel -y

**# Download tomcat software and extract it.**

sudo yum install unzip -y

sudo wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.0.27/bin/apache-tomcat-10.0.27.tar.gz

sudo tar -xvf apache-tomcat-10.0.27.tar.gz

sudo rm -rf apache-tomcat-10.0.27.tar.gz

sudo mv apache-tomcat-10.0.27 tomcat10

sudo chmod 777 -R /opt/tomcat10

sudo sh /opt/tomcat10/bin/startup.sh

**# create a soft link to start and stop tomcat**

sudo ln -s /opt/tomcat10/bin/startup.sh /usr/bin/starttomcat

sudo ln -s /opt/tomcat10/bin/shutdown.sh /usr/bin/stoptomcat

sudo starttomcat

Accessing TOMCAT:

Access Tomcat - using your IP address. Open port 8080

use <ipaddress:8080> on your website browser

Access the backend using App Manager

If access is denied : 403 Access Denied

Configure your context.xml; vi into these two files:

File #1.

*vi /opt/tomcat10/webapps/manager/META-INF/context.xml*

File #2.

*#vi /webapps/host-manager/META-INF/context.xml*

And in both files, put multi-line comment like this on the context value:

<!--

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

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

-->

Save and close

TO CREATE USER:

CD into conf directory or use this file to get to users.xml

*vi /opt/tomcat10/conf/tomcat-users.xml*

or

*vi tomcat-users.xml*

Enter user information like this:

First user:

*<user username="rondus" password="admin123" roles="manager-gui,admin-gui, manager-script"/>*

Second user:

*<user username="rondus" password="admin123" roles="manager-gui,admin-gui"/>*

Save and close

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To startup tomcat:

sh startup.sh

sh shutdown.sh

sh catalina.sh start

sh catalina.sh stop

conf:

server.xml

Ensure that “autoDeploy” is set to true

tomcat-user.xml

lib:

contain all the jar files

logs:

catalina.out

host-manager.log

What are the log files available in the log dir?

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Deploy your app from maven to tomcat

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* GitHub is use as a SCM platform
* Git is use for versioning,
* Maven is a build tool

git clone

1. Project: chase

mkdir chase

git clone https://github.com/RondusTech/maven-web-apps

cd maven-web-apps

mvn clean package

2. deploy in tomcat = means copy \*.war files to:

Webapps

* Open your key-pair from notepad, copy the content to a folder you create on maven server. eg. *class001.pem*
* Your key is unprotected, you will need to protect the key:

*sudo chmod 400 class001.pem*

maven: privateIP = 172.31.87.205 publicIP =44.203.69.102,

tomcat: privateIP= 172.31.89.218 publicIP=18.207.210.70

To deploy your app:

scp -i key target/\*war ec2-user@172.31.64.214:/opt/tomcat10/webapps

Example:

scp -i class001.pem target/\*war [ec2-user@172.31.89.218:/opt/tomcat10/webapps/](mailto:ec2-user@172.31.89.218:/opt/tomcat10/webapps/)

or for absolute path:

scp -i class001.pem target/maven-web-app.war ec2-user@172.31.49.195:/opt/tomcat10/webapps

This is where you application is located:

vi /opt/tomcat9/webapps/maven-web-app/jsps/home.jsp

3. Open tomcat port in the firewall (Security Groups)

8080

From maven server, run this command to secure copy the \*war file to tomcat webapps

On your tomcat GUI, you should see your application deployed to tomcat

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