TOMCAT(From Apache)

Apache Tomcat:

Is a web server used for deploying java based web applications

Why do we use web servers?

Web servers come with built in features, like

- http implementations
- Multi threading capabilities, using thread we can handle multiple requests concurrently
- security implementation(https) Etc..

Installing Tomcat on linux machine:

In Amazon Linux:

- Java is the dependency for tomcat to work
- Installing java
- sudo yum install java-1.8.0-openjdk-devel -y
- cd /opt
- Download tomcat

sudo waet

http://www-eu.apache.org/dist/tomcat/tomcat-8/v8.5.32/bin/apache-tomcat-8.5.32.t

ar.qz

- Untar the file

sudo tar -xf apache-tomcat-8.5.32.tar.gz

- Rename the file

sudo mv apache-tomcat-8.5.32 tomcat8

- Change the ownership of tomcat to ec2-user
- sudo chown -R ec2-user:ec2-user tomcat8
- Starting tomcat server

\${TOMCAT_HOME}/bin/startup.sh

Note: default port of tomcat is 8080

Stopping tomcat server

\${TOMCAT_HOME}/bin/shutdown.sh-

Deploying web application on the tomcat server:

Deployment can be done in many ways:

Place the war file under \$\{TOMCAT_HOME\}/webapps\,\ \text{webapps}\,\ \text{webapps}\ \text{odeployment directory}\

Command To copy war file from Maven to Tomcat Server:

scp -i ec2key.pem /home/ec2-user/sample-app/target/myapp-0.0.3.war

ec2-user@192.32.56.12:/home/ec2-user/

Next Copy war file to {TOMCAT HOME}/webapps

2. Upload war file via tomcat manager application

Troubleshooting tomcat specific issues:

Troubleshooting is done with help of tomcat log files

\${TOMCAT HOME}/logs

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Tomcat manager application:

Tomcat manager is the web application, using this we manage applications running on tomcat. We can also deploying using this application.

By default access is restricted to this application.

- Remove the restriction to manager application
 - vi /opt/tomcat8/webapps/manager/META-INF/context.xml
- Remove the <Value></Value> from this file.
- Add user to access tomcat manager application
 - vi /opt/tomcat8/conf/tomcat-users.xml

<role rolename="manager-gui"/>

<role rolename="manager-script"/>

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

Note:

- 1. Deployment related issues we can troubleshoot by using logs.
- 2. *cd /opt/tomcat8/logs* → logs folder location → *vi Catalina.out*
- 3. If we want to change port number of tomcat u can change in **server.xml**
- 4. In Ubuntu/Amazon linux if u want to change port number of tomcat u can cd into /var/lib/tomcat8/conf, from there vi server.xml in that u change port number 8080 to desired port → make sure that it is pointing to HTTP.

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Enabling Tomcat on reboot:

STEP-1

cd /etc/init.d

STEP-2

vi tomcat8

STEP-3

#!/bin/bash

description: Tomcat Start Stop Restart

processname: tomcat # chkconfig: 234 20 80

CATALINA_HOME=/opt/tomcat8

case \$1 in

start)

sh \$CATALINA_HOME/bin/startup.sh

.. , ,

stop)

sh \$CATALINA HOME/bin/shutdown.sh

.. ,,

restart)

sh \$CATALINA_HOME/bin/shutdown.sh

sh \$CATALINA HOME/bin/startup.sh

.. ,,

esac

exit 0

STEP-4

chmod 755 tomcat8

STEP-5

chkconfig --add tomcat8

STEP-6

chkconfig --level 234 tomcat8 on

STEP-7

service tomcat8 start

chkconfig tomcat8 on

service tomcat8 stop

service tomcat8 restart

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