**TOMACAT**

It is a open source light weight web server from apache tool.

Tomcat is widely used for deploying java based web applications

Other web servers in the space of Java

* Oracle web logic ( we call as app server)
* Ibm web sphere
* Sun glass fish
* Jboss
* Pranathi app server.

About 90 % of java web apps run of Tomcat

To deploy dotnet based web apps we use Microsoft IIS (internet information service) – it is designed for dotnet based apps – to build dotnet based projects we use ms build.

Install and configure Tomcat on Linux

Tomcat is written in Java , so java is required to run Tomcat.

**Starting Tomcat :**

Execute **starup.sh** which is located under $ tomcat HOME/bin ( place where extracted tomcat)

To stop tomcat server execute **shutdown.sh** which is in $ tomcat HOME/bin

How to deploy apps on to the tomcat

(- developpers keeps source code in Git

- We need to clone or build code

Use mvn clean package

-once war file got ready it must deploy in tomcat

Build is going to create war file and we keep in tomcat)

**Deploying web apps on Tomcat:**

**There are many ways to deploy web apps on to the tomcat**

* **Take a war file using build tool and place it in deployment directory of that specific server**($TOMCAT\_HOME/webapps/myweb.war)[this is enough if we learn]
* **Configure Tomcat manager (it’s a web app)**
  + **Deploy war file through tomcat manager**
* **You can put war file anywhere in the servercontext.xml**

**Install and configure maven on Linux.**

* **Ec2 launch instance**
* **I want to setup build server for that Java is required , Jdk is required , maven is going to compile & execute test cases**
* **Sudo yum list | grep java-1.8.0 (for getting jdk1.8)**
* **Sudo yum install java-1.8.0-openjdk-devel -y**
* **Download maven**
* **Go to download page right click copy address (tar file) (we keep under cd/opt )**
* **#sudo wget ( link-🡪** [**http://us.mirrors.quenda.co/apache/maven/maven-3/3.6.2/binaries/apache-maven-3.6.2-bin.tar.gz**](http://us.mirrors.quenda.co/apache/maven/maven-3/3.6.2/binaries/apache-maven-3.6.2-bin.tar.gz) **)**
* **Ls**
* **Sudo tar -xvf apache-maven-3.6.2-bin.tar.gz (x -extract, v-verbose , t- tar file)**
* **Sudo chown -R ec2-user:ec2-user apache-maven-3.6.2 (change permissions**
* **mv apache-maven--3.6.2 maven3**
* **cd maven3/**
* **cd bin**
* **mvn --version (it gives information)**
* **I want to add maven to the path for that ( I want to add at user level-only that specific user will have a path to that maven , other users wont have it , (system level – if I add path at system level it can ba available for any loggedin user for same server**
* **I am doing at user level**
* **Cd..**
* **Pwd**
* **Vi ~/ .bashrc ( in vi editor I open bashr**
* **$PATH:/opt/maven3/bin –( to that existing path add maven) – path added at user level**
* **Wq**
* **Logout and login check maven or use source command**
* **Take source code on to server – build it using maven-copy that war file to web app – and see that app is deployed.**
* **Git clone** [**https://github.com/javahometech/myweb**](https://github.com/javahometech/myweb) **-(it has pom file**
* **Sudo yum install git -y (on windows diff)**
* **Cd myweb/**
* **Ls**
* **Mvn clean package (make sure inside project webappp pom.xml is available . it excepts the pom file)**
* **Ls**
* **Target/**
* **Pick up**

**IQ) how do you copy files from one server to another**

* **We can use scp command**

-------------------------------class missed 30/10/19-----------------------------------------

**31-10-19**

How to enable tomcat manager application:

Follow the instructions from documentation. (apache tomcat manager )