Apache Tomcat

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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/https implementations
- Multi threading capabilities, using thread we can handle multiple requests concurrently
- Application lifecycle management
- Etc..

App servers

Web server features + transaction management + Directory services + EJB containers etc..
- Webshphere
- Weblogic
- JBoss
- etc...

Installing Tomcat on linux machine

- 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 wget

http://www-us.apache.org/dist/tomcat/tomcat-8/v8.5.20/bin/apache-tomcat-8.5.20.tar.gz
- Untar the file
  sudo tar -xf *apache-tomcat-8.5.20.tar.gz*
- Rename the file

sudo mv apache-tomcat-8.5.20 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
1. Place the war file under ${TOMCAT_HOME}/webapps
   webapps folder is called as tomcat's deployment directory
2. Upload war file via tomcat manager application

Troubleshooting tomcat specific issues

Troubleshooting is done with help of tomcat log files
${TOMCAT_HOME}/logs

Tomcat manager application

Tomcat manager is the web application, using this we manage applications running on tomcat
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="javahome" password="javahome" roles="manager-gui,manager-script"/>

3 rd floor, above Ramdev medicals, dental college road,
Above Ramdev Medicals, Marathahalli, Bangalore-37
9886611117
www.javahome.in