Install Apache Tomcat Server on EC2 Instance and Deploy .WAR File

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| To install Tomcat | wget <http://www.trieuvan.com/apache/tomcat/tomcat-8/v8.5.50/bin/apache-tomcat-8.5.50.tar.gz>  Untar OR Unzip the tar  tar -xvf apache-tomcat-8.5.50.tar.gz |
| To start the server | Go to the startup.sh file location  cd /home/ec2-user/apache-tomcat-8.5.50/bin  Run startup.sh file  sh startup.sh |
| To change the port number for Tomcat server | Go to “server.xml” file from conf folder  /home/ec2-user/apache-tomcat-8.5.50/conf  vi server.xml  <Connector port="**9090**" protocol="HTTP/1.1"  connectionTimeout="20000"  redirectPort="8443" />  In the connector tag change the port number to your port number  Shutdown the Tomcat server  sh shutdown.sh  Restart server  sh startup.sh |
| To go to the Tomcat webpage copy the public ip of instance and give the port number followed by the : | 54.91.87.37:9090  A screenshot of a cell phone  Description automatically generated |
| When we access Manager App, we get error 403 Access Denied | A screenshot of a cell phone  Description automatically generated |
| To solve the error 403 Access Denied | Go to the file context.xml from META -INF and comment lines as below:  /home/ec2-user/apache-tomcat-8.5.50/webapps/manager/META-INF  <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" />**  **-->**  Add some content into the tomcat-users.xml from conf:  /home/ec2-user/apache-tomcat-8.5.50/conf  **<role rolename="manager-gui"/>**  **<role rolename="manager-script"/>**  **<role rolename="manager-jmx"/>**  **<role rolename="manager-status"/>**  **<role rolename="admin-gui"/>**  **<role rolename="admin-script"/>**  **<user username="admin" password="admin" roles="manager-gui, manager-script, manager-jmx, manager-status, admin-gui, admin-script"/>**  **NOTE: AFTER MAKE CHANGES INTO THE BOTH FILES WE NEED TO SHUTDOWN AND START UP AGAIN THE SERVER.** |
| Tomcat Manager Site Page | A screenshot of a cell phone  Description automatically generated |
| To deploy the .wer file we need to install plug-inn into the Jenkins | Deploy to container |
| To deploy a .war project we need to give a path of .war file into the Tomcat Server Manager Site Page | If we want to deploy menually .war file or take it from the local computer than click on the “Choose File”  Select the .war file  Press the “Deploy”  A screenshot of a cell phone  Description automatically generated  If we want to take it from the github, clone the reposotiory into the jenkins which have .war file  Go to the Jenkins Job  Go to the Configure  Select Git and give the repository path which we clone it and give Credentials:  A screenshot of a social media post  Description automatically generated  Into the Build we need to Add-build Step and select “Invoke top level Maven targets”  Select the Maven home and give the goals  A screenshot of a cell phone  Description automatically generated  Into the post-build option we need to select “Deploy war/ear to to acontainer”  In WAR/EAR Textbox we need to give \*\*/\*.war value  Press Add container  Select Tomcat version “Tomcat 8.x Remote”  Give Credentials: (Press Add and Set User name and password of Tomcat Admin)  In Tomcat URL we need to give url of tomcat server which we are using (<http://54.91.87.39:9090/>)  A screenshot of a cell phone  Description automatically generated  Press Apply and Save  Build the Job |
| We can see the .war file on the Tomcat Server Manager Site Page  **WAR File: /WebApp** | A screenshot of a cell phone  Description automatically generated |