**Assignment No. : 1**

**TITLE**

TOMCAT SERVER installation

**OBJECTIVES**

1. Understand how to install tomcat server
2. Configure tomcat server

**PROBLEM STATEMENT**

Installation of TOMCAT Server and Configuration of it.

**OUTCOME**

Install TOMCAT Server and Configuration of it. Create a web page using html and access it on installed server.

**SOFTWARE & HARDWARE REQUIREMENTS**

1. Java 7 or Later

2. Apache Tomcat Server

**THEORY-CONCEPT**

**Web Application**:

A web application runs over the Internet. Ex. eBay,Amazon ,Google, facebooketc

A webapp contains five components:

1. HTTP Server: Examples are- Google Web Server, Apache HTTP Server, Apache Tomcat Server, Microsoft Internet Information Server (IIS) etc

2. HTTP Client (Web Browser): Examples are- Internet Explorer, Firefox, Google Chrome,

Safari etc.

3. Database: Examples are- MySQL, Apache Derby, MS SQL Server, SQLite, PostgreSQL,

Commercial Oracle, IBM DB2, SAP SyBase, MS Access etc

4. Client-Side Programs: It can be written in HTML Form,VBScript, JavaScript, Flash etc.

5. Server-Side Programs: could be written in Java Servlet/JSP, ASP, PHP, Perl, Python,

CGI, and others.

**Steps for tomcat installation (use root user)**

1. **>Yum install tomcat**
2. **>Systemctl enable tomcat (if not execute again same command)**
3. **>Yum install tomcat-webapps**
4. **>Yum install --skip-broken tomcat\***
5. **>Service tomcat restart**
6. **Open browser with localhost:8080**
7. **Click on manager app**
8. **To enter username pwd click cancle . copy the <role rolename=manager-gui”/> <user username=”” password=”” roles=”manager-gui”/> ----- 2 lines code and paste in 9th step**
9. **Open /etc/tomcat/tomcat-users.xml file in editor & paste 8th step code in this file. Save the file.**
10. **>Service tomcat restart**
11. **Execute 6th & 7th command enter username & password used in the 9th step file.**

**Now, we can create web page & execute using tomcat server for assignment’s next part.**

Store all files in **/var/lib/tomcat/webapp/yourfile**

[**Apache Tomcat**](https://tomcat.apache.org/) is an open-source web server and servlet container developed by the Apache Software Foundation (ASF). Tomcat implements several Java EE specifications including Java Servlet, JavaServer Pages (JSP), Java EL, and WebSocket, and provides a “pure Java” HTTP web server environment for Java code to run in. [[Wiki](https://en.wikipedia.org/wiki/Apache_Tomcat)]

**TAGS**:

Explain all the used tags in your html file with syntax and examples.

**CONCLUSION:**

We have learned how to install and configure tomcat server.

**ORAL QUESTIONS**

1. What is Tomcat?

2. What is the tomcat default port?

3. What services are provided by Tomcat?

4. Explain directory structure of tomcat.