

Assignment - 1.

Title :-

Installation & configuration of web servers & application servers

Problem statement :-

- Installation & configuration of Apache Tomcat server on Linux.
- Installation & configuration of JBoss server on Linux.
- Installation & configuration of GlassFish server on Linux.
- To understand commands to install mentioned application servers.
- To understand commands to install mentioned application servers.
- To understand difference between web server & application server.

H/W & S/W :-

Apache Tomcat, JBoss, GlassFish server, Fedora, keyboard, mouse.

Theory:-

Web server & application server:-

Following are key differences in features of web server & application server:-

- ① Web server is designed to serve HTTP content. App server also serve HTTP but is not limited to just HTTP. It can provide other protocols such as RMI/RPC.
- ② Web servers is mostly designed to serve static content, though most web servers have plugins to support scripting languages like perl, PHP, ASP, JSP, etc. through which these servers can generate dynamic HTTP content.
- ③ Most of the application servers have web server as integral part of them, that means App server can do whatever web server is capable of additionally App server have components & features to support application level services such as connection pooling, object pooling, Transaction support, measuring services etc.

- Date _____
- ④ As web servers as well suited for static content & app servers for dynamic content, most of the production environment have web servers acting as reverse proxy to app server.

Components of Tomcat:-

- ① Catalina : It is the servlet container of Tomcat
- ② Coyote : Coyote acts as a connector & supports HTTP 1.1.
- ③ Jasper :- It is the Tomcat's JSP engine.
- ④ Cluster : A component for ~~cloud~~ load balancing to manage large application
- ⑤ High availability :-
A tomcat component to schedule system upgrades & changes without affecting live environment.
- ⑥ Web application :-
Manage sessions, support deployment across different environment.

conclusion :-

We successfully install the Tomcat server on Linux OS.

Apache Tomcat/8.5.14



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations HOW-TO](#)

[Manager Application HOW-TO](#)

[Clustering/Session Replication HOW-TO](#)

[Server Status](#)[Manager App](#)[Host Manager](#)

Developer Quick Start

[Tomcat Setup](#)[First Web Application](#)[Realms & AAA](#)[JDBC DataSources](#)[Examples](#)[Servlet Specifications](#)[Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

`$CATALINA_HOME/conf/tomcat-users.xml`

In Tomcat 8.5 access to the manager application is split between different users. [Read more...](#)

Release Notes

Documentation

[Tomcat 8.5 Documentation](#)[Tomcat 8.5 Configuration](#)[Tomcat Wiki](#)

Find additional important configuration information in:

`$CATALINA_HOME/RUNNING.txt`

Developers may be interested in:

Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)

Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)

User support and discussion

[taglibs-user](#)

User support and discussion for Apache Taglibs