Date

Assignment - 1.

Title :-

Installation & configuration of web servers & application servers

Problem statement :-

- Installation & configuration of Apache Tomcat server on Linux.
- Installation & configuration of J Boss server on Linux.
- Installation & configuration of Glass-Fish 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, Glass Fish server, Fedora, Keyboard, mouse.

Theory :-

Web server & application server :-

Following are key differences in features of web server & appliation server :

① Web server is designed to server HTTP content. App Server also serve HTTP but is not limited to just HTTP. It can provide other protocol 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. though 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 additionaly App server have components & features to support application level services such as connection pooling, object pooling. Transaction support, Measuring services etc.

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

Components of Tomcat :-

① Catalina : It is the servelet 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 balancing to manage large applicat^n

⑤ High availability :-
A tomcat component to schedule system upgrades & changes without affecting live enviornement.

⑥ Web application :-
Mange sessions, support, deployement across different enviornment.

Conclusion :-

We successfully install the Tomcat server on Linux OS.