

Web Systems and Technologies

Assignment – 1

Name: Ninad Milind Barve

MIS: 112003016

Div: 1

Batch: TY1-T1(WST1)

Comparing any two web servers (features, configuration files, etc) one of which is Apache Tomcat.

Apache Tomcat	Nginix
It is an open-source web server developed by the Apache Group. Released on 25 March 1999	It is an open-source web server developed by Nginix.inc. Released on 4 October 2004
Compatible platforms: Unix, Linux, Windows	Compatible platforms: Unix like systems, linux and has limited support on Windows
It is an application server and web server. It has an application container that can server serve Java Web applications(servlets). It can also server static content (html, images)	Designed to work both as a web server and a proxy server.
Uses a multi-threaded approach for processing client requests A single thread handles only a single connection	Uses an event-driven asynchronous approach for processing requests Multiple connections can be handled by a single thread in Nginix
Modules are dynamically loaded and unloaded This makes Tomcat very flexible	Dynamic content cannot be loaded natively in Nginix
Easy customization possible as writing of modules can be done easily	Any new modules need to be compiled first into Nginix binary by the admin
Apache Tomcat server is good in handling Java servlets. But performance in dealing with static content is low	Nginix can handle both static and dynamic content concurrently using lesser memory than Apache Tomcat
Apache tomcat is typically used to host Java applications. Some of the important websites (applications) hosted by Tomcat are WalMart.com , The Weather Channel , WebShots etc.	Nginix typically used to host javascript based (NodeJS) applications. Some of the popular websites using NGIXN are Netflix.com , Pinterest.com , Airbnb.com , SoundCloud.com etc.
The codebase for apache tomcat is very high but security is low	Codebase for Nginix server is low and the security is high
Configuration files	
Main Apache configuration file is located at /opt/ /tomcat/conf/server.xml	Every nginx configuration file is found in /etc/nginx directory
On starting the server log files will be stored in /opt/ /tomcat/logs The main log file is catalina.out where error messages are saved	The main configuration file is /etc/nginx/nginx.conf
Detailed documentation of Apache Tomcat can be found at https://tomcat.apache.org/tomcat-8.5-doc/index.html	Detailed documentation of nginx can be found at https://nginx.org/en/docs/