REDEEMER'S UNIVERSITY, EDE

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COURSE TITLE: Internet Technology

ASSIGNMENT TITLE:

COMPARATIVE ANALYSIS OF MAJOR WEB SERVERS IN INTERNET TECHNOLOGY

SUBMITTED TO

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Web servers are fundamental elements of internet technology, facilitating the transmission of web content across the World Wide Web.Various web servers have developed over time with distinct architectures, performance metrics, licensing agreements, and application focuses. This comparative analysis focuses on five widely used web servers: Apache HTTP Server, Nginx, Microsoft Internet Information Services (IIS), LiteSpeed Web Server, and Apache Tomcat, highlighting their key characteristics and differences across six major criteria.

Criteria	**Apache HTTP Server**	**Nginx**	**Microsoft IIS**	**LiteSpeed**	**Apache Tomcat**
Developer/Owner	Apache Software Foundation	F5, Inc. (originally by Igor Sysoev)	Microsoft Corporation	LiteSpeed Technologies	Apache Software Foundation
Performance & Speed	Good for dynamic content, but slower under high concurrency	High performance, non-blocking, ideal for static content & high concurrency	Decent for .NET and Windows-based applications, lower performance under heavy load	Very high performance, especially for WordPress sites	Designed for Java Servlets and JSPs; not optimized for static content
Operating System Support	Cross-platform (Linux, Windows, macOS)	Cross-platform (Linux, Windows, BSD)	Windows only	Cross-platform (primarily Linux, with some Windows support)	Cross-platform (Linux, Windows, macOS)

zxcConfiguration Complexity	Modular and flexible, but complex for beginners	Configuration is straightforward for static content, more complex for dynamic apps	GUI-based configuration (easy for Windows users)	Easy migration from Apache; commercial GUI available	XML-based configuration; steep learning curve for Java web developers
Licensing and Cost	Open-source (Apache License 2.0)	Open-source (2-clause BSD License)	Proprietary (bundled with Windows Server)	Proprietary (Free and Paid Tiers)	Open-source (Apache License 2.0)
Application Use Case	Suitable for PHP-based apps (e.g., WordPress, Drupal)	Load balancing, reverse proxy, static site hosting	ASP.NET applications on Windows	High-performance PHP hosting (e.g., WordPress, Magento)	Java EE Web Applications (Servlets, JSPs)

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