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MATRIC NO: RUN/CMP/24/17877

TOPIC

**COMPARE AND CONTRAST
BASED ON SOME CRITERIA
DIFFERENT WEB SERVERS**

COURSE CODE: CSC 828
INTERNET TECHNOLOGY

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Criteria	Apache	Nginx	Microsoft IIS	LiteSpeed	Apache Tomcat
Type	General-purpose HTTP server	Event-driven HTTP server	Proprietary HTTP server	High-performance HTTP server	Java Servlet container (Java-specific)
OS Support	Linux, Windows, macOS, Unix	Linux, Windows, macOS, Unix	Windows only	Linux, Unix, macOS, Windows (limited)	Linux, Windows, macOS
Performance	Good, but not great under high load	High performance under heavy	Moderate to good	Very fast, built for speed	Moderate, optimized for Java apps
Concurrency Handling	Process/thread-based	Event-driven (non-blocking)	Thread-based	Event-driven (like Nginx)	Thread-based
Ease of Setup	Moderate	Moderate to advanced	Easy (GUI-based)	Easy to moderate	Moderate (Java knowledge needed)
Best For	PHP, general websites	Static content, reverse proxy, load balancing	ASP.NET, .NET apps	High-traffic sites, commercial use	Java-based apps (JSP, Servlets)
Reverse Proxy Support	Yes (with modules)	Excellent	Limited	Yes	No (not primary function)
Dynamic Content	With modules (e.g., mod_php)	With external processors (e.g., PHP-FPM)	With ASP.NET	With LSAPI, PHP, others	Native Java servlet/JSP
Extensibility	Modular (many modules available)	Modular (fewer but efficient modules)	Moderate (extensions available)	Proprietary extensions	Java-based, extensible via libraries

Security	Strong (regular updates)	Strong (lightweight, fewer exploits)	Strong (integrated with Windows security)	Strong	Secure if Java code is well written
License	Open Source (Apache License)	Open Source (2-clause BSD)	Proprietary (Microsoft)	Proprietary (free & paid)	Open Source (Apache License)
Community Support	Large, active	Large, growing	Microsoft Support & forums	Smaller, commercial support	Strong Java developer community
SSL Support	Yes (mod_ssl)	Yes (native)	Yes (built-in)	Yes (native, with HTTP/3)	Yes (via Java libraries)

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