* **What is web server?**
* A web server is a software application that runs on a computer and is responsible for hosting, managing, and serving websites, web applications and other digital content over the internet.
* Handling HTTP Requests
* Serving web content
* Managing web applications
* Providing security
* **Types:**
* Apache HTTP server
* Nginx
* Microsoft IIS
* Lighttpd
* Glassfish
* **What is nginx server?**
* Nginx was created by Igor Sysoev in 2002.
* Nginx is a popular open-source web server software that can also be used as a reverse proxy, load balancer, and HTTP cache.
* It is known for its high performance, scalability, and reliability.
* Nginx is written in ‘C’ language.
* **Features:**
* **High performance web server:** It handles many concurrent connections and requests.
* **Reverse proxy:** It acts as a reverse proxy, allowing it to distribute incoming requests across multiple backend servers.
* **Load balancer**: distributing incoming traffic across multiple backend servers.
* **HTTP cache**: it can store frequently requested resources, reducing the load on backend servers.
* **Supports for multiple protocols**: it supports multiple protocols, including HTTP, HTTPS, TCP, and UDP
* **URL rewriting:** nginx includes a powerful URL rewriting engine, allowing for flexible URL manipulation.
* **SSL/TLS**: it supports SSL/TLS encryption allowing for secure communication between clients and servers.
* **What is Apache tomcat?**
* Apache tomcat is an open-source web server and servlet container.
* It was developed by Apache software foundation.
* It is a popular choice for building web applications.
* Apache tomcat written in ‘JAVA’.
* **Key features:**
* **Servlet container**: tomcat is a servlet container that supports the java servlet and java server pages specifications.
* **Web server**: it includes built in web server that can serve static and dynamic content.
* **Java based**: it is written in java and is designed to run on a java virtual machine.
* **Open source**: it is free to use, modify and distribute.
* **Scalable**: it can handle many concurrent requests.
* **Difference between nginx server and Apache tomcat server?**

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| Nginx server | Apache tomcat server |
| Nginx is a web server that can serve static content, such as HTML, CSS, and images. | Tomcat includes a built-in webserver that can serve static and dynamic content. |
| Written in C language. | Written in JAVA language. |
| Primarily used as a web server and reverse proxy. | Tomcat is used as a servlet container and web server. |
| It is faster and more scalable than tomcat. | It is slower. |
| Performance is high. | Performance is medium. |